

SOUND ON SOUND

TM

EUROPE'S NO.1 HI-TECH MUSIC RECORDING MAGAZINE

SOUND ON SOUND

George Michael

THE OLDER SESSIONS

PLUS

Novation
DrumStation Rack

Digidesign
Audiomedia III PCI

DIY Digital
Production

Gary Numan
& much more...



**Steinberg
Cubase VST**
PLUG-IN POWER
SEQUENCING

WIN
Novation
BassStation Rack

SPIRIT FOLIO SX MIXER • DIGITECH MIDI VOCALIST • 808 STATE LA AUDIO 4X4² • ENSONIQ SQ80 RETRO • SALVAGING THE MIX MACKIE 1604 VLZ MIXER • LEXICON PCM80 EXPANSION CARDS SYNTECNO BASS MODULE • **PC** • **APPLE** • **ATARI MUSIC NEWS**

VOLUME 11
ISSUE 9
JULY 1996
£3.25



They said it couldn't be done.



**When digital audio pitch shifting
"exceeds a third above or below the
original, the results are very synthetic
and unpleasant...it's the laws of physics."**

So said a recent software review in a popular music technology magazine.

But that was before Digital Performer® 1.7...

Transpose your vocals by a fifth or more in Digital Performer 1.7 and they still sound like the original singer. No squeaky chipmunks. No darth vader.

Gender-bend your male vocals into female vocals. Turn a soprano singer into a baritone. Even build an entire mixed chorus from a single vocal track. It's all possible with Digital Performer because of our ground-breaking PureDSP™ technology.

With audio effects like these, Digital Performer is a must-have. So get Digital Performer and start breaking a few laws of your own.

Macintosh midi sequencing · digital audio recording/
editing/mixing/processing · music notation printing



Mark of the Unicorn



Incredible PureDSP
is now available in Version 1.7
(a free update to 1.6 users). Special
upgrades from Performer and other sequencers
are available for a limited time; phone for details.

PO BOX 4
ARLESEY
BEDFORDSHIRE
SG15 6AA

TEL: 01462 733310
FAX: 01462 733390

musictrack



▲ **Opcode Overture**
New, easy to use professional 64
stave score writing software with
full OMS compatibility

£199^{SRP}
INC. VAT EXC. DEL.



▲ **Opcode Digitrax**
Multitrack recording and editing
on Power Macintosh. Ultra
flexible.

£149^{SRP}
INC. VAT EXC. DEL.



▲ **Midi Translator II**
1 IN, 3 OUT giving 15 channel
support. Use two for 32ch.

£49 ex vat

▲ **Midi Translator PC**
2 in 2 out expandable with up to
4 units in tandem for 32ch.

£89 ex vat

▲ **Midi Translator Pro**
2 IN, 6 OUT. Midi interface
giving full 32 channel support.

£99 ex vat

▲ **Translator Pro Sync**
2 IN, 4 OUT. Full 32 ch support.
Plus SMPTE read/write sync.

£169 ex vat

▲ **Studio 4**
8 INs & 8 OUTs plus 2 extra
THRUs. 128 ch support. SMPTE
read/write inc. 29.97 non-drop.

£349 ex vat

▲ **Studio 5Lx**
15 INs & 8 OUTs for 240 ch
compatibility. All SMPTE formats
inc. 29.97 non-drop. Patchbay.

£799 ex vat



MusicQuest by Opcode is a
comprehensive range of MIDI
and Sync interfaces for IBM PC
and compatibles. Whether you
have need for a simple 1 in 1 out
MIDI interface, a full blown 8x8
Midi matrix with SMPTE or
anything in between, MusicQuest
has the cost effective solution.

the.best.software@ the.best.price



StudioVision 3.0

£429^{ex vat}
£504 INC VAT

Vision 3.0

£199^{ex vat}
£234 INC VAT

Vision Windows 2.5

£199^{ex vat}
£234 INC VAT

OK so you want the best music software out there. You want all the features, all the bells and all the whistles as well. And you want a great price.

Well now you have it all - and then some.

MCMXCIX, the first name in music software distribution can now offer, (for a limited period only) the world's best music software and hardware for the Macintosh and Wintel platforms at incredible savings.

For a limited period only you can buy Vision 3.0 Mac for just £199 ex vat (£234 inc). That's less than £200 and a cool £100 less than it's nearest rival, for a software package which offers stunning sequencing capabilities along

with digital hard disk recording on Power Macintosh with no extra hardware required. Studio Vision Pro v3 meanwhile can be had for a incredible £429 ex VAT and offers the massive feature-set of Vision plus intelligent features such as audio to MIDI, MIDI tempo control of audio, pitch shift, other DSP functions and full automated mixing.

But that's not all.

Buy Vision* or StudioVision Pro* before the end of July and get an 'Internet ready' 14.4bps Fax/Data modem absolutely FREE. - Perfect for checking out the new MCM home page packed with info and updates.

Call MCMXCIX for more information, or call into an Authorised Opcode stockist.

**FREE
MODEM**
LIMITED OFFER



*Macintosh versions only



O P C O D E



For Windows and Mac OS

MCMXCIX, 9 Hatton Street. London NW8 8PL. Tel: 0171 723 7221. Fax: 0171 723 8150. www.mcm.co.uk/opcode

WRB

TSC

THE SOLUTIONS COMPANY



Pro Tools delivers uncompromising power (16-48 tracks), and performance for audio post, broadcast and music production. Quality is unsurpassed and you can customise a system in almost any way imaginable using add-ons and plug-ins such as DINR noise reduction, D-Verb 24bit digital reverb, Master List CD creator, QSYS 3D sound FX, d2 Focusrite multi-band EQ, TC/Tools reverb chorus & delay, in fact in our experience no two Pro Tools systems are the same.



digidesign
pro tools from £599
to £15,000 ex vat

free
FOCUSRITE OR DIRECTOR
Buy a Pro Tools Power Mac system before July 31st and get Macromedia Director Bundle (a £1100 value) or a Focusrite Green Mic Pre-Amp (a £699 value) FREE!



DIGIDESIGN TDM BUS™
The TDM Bus provides software-controlled digital matrix routing for up to 24 channels of 24-bit digital audio among various I/O ports, DSP cards & FX processors. In effect it reduces a conventional studios patch bay and mountains of rack gear into a single computer cable & a handful of expansion cards.

The nuts and bolts are as follows:

- 16-48 tracks of record/playback on PCI Macs
- 8 to 64 channels of I/O
- Multichannel digital mixing + total recall
- MIDI sequence recording, playback & automation
- Sequencer-style digital audio editing
- Graphic breakpoint-style automation editing for audio & MIDI events, SMPTE sync & more.
- Time sampling of regions
- 44.1 & 48kHz sampling rates
- Balanced +4dBm I/Os
- Parametric digital EQ
- Plug-In architecture

TSC - the only serious choice for Pro Tools. Phone today for a personal evaluation.

digidesign tools

888 INTERFACE

- 8 XLR balanced ins, 8 XLR balanced outs
- 8 AES/EBU connectors - LED metering
- 16 channel 8 track recording

SMPTE SLAVE DRIVER

- Track Pro Tools to incoming LTC source
- Resolves any speed deviations
- MTC and SSP as standard

882 INTERFACE

- 8 track digital recording interface
- Balanced jacks
- SPDIF digital I/O

ADAT INTERFACE

- Sample accurate digital audio transfer between Pro Tools & ADAT
- Use ADAT as back-up for your Hard Drive



digital audio midi seq.



OPCODE STUDIOVISION
 Includes all the sequencing of Vision
 Full Pro Tools support, auto
 mixing, DSP functions.....**£429** £504 inc

**FREE
MODEM**

CUBASE AUDIO
 Includes all features of Cubase Score
 Groove quantising, tempo-fit
 logical to use.....**£499** £586 inc

EMAGIC LOGIC AUDIO
 Great features such as time compression
 Digital re-grooving,
 Very musical to use.....**£499** £586 inc



yamaha
o2r phone for best
price

YAMAHA O2R
 Yamaha's O2R features ultra-high quality digital mixing, EQ and DSP effects at an incredible price. It can be configured with up to 16 channels making it a viable replacement for any big console.

digital recording and mixing

TSC supports only the finest in digital recording and mixing solutions: The following deserve your evaluation.



akai
dd1500 from **£11,495** ex vat
£13,507 inc

● **Akai DD1500**
 16 track pro system with comprehensive sync & DSP facilities. Will lock to anything making it ideal for video-post.



akai demo units
dr8 & dr16 from **£1999** ex vat
£2349 inc

● **Akai DR16 & DR8**
 16 and 8 track hard disk records which function just like tape machines. 8 track simultaneous recording - 16-bit A/D & D/A.



roland
vs-880 from **£1149** ex vat
£1350 inc

● **Roland VS-880**
 All-in-one digital studio featuring up to 64 virtual tracks, digital EQ, mixing and optional DSP effects.

● **Alesis ADAT XT**
 Latest version of the ever-popular ADAT format - features track copy and editing.

mac computing



TSC, is the solutions division of Computer Warehouse, one of the top two Apple Resellers in the country. We stock everything Macintosh from the computers themselves (Apple & Power Computing) to monitors, printers, memory, hard drives etc. and the largest selection of music, multimedia, business, games and education software you'll find anywhere. TSC have been specialists in integrating the Mac into the music, pro-audio and video-post environments since our inception in 1987. We have the experience, the prices and the reputation.

p.mac 7600/120



16/1.2G cd **£2199**
£2584 inc vat

p.mac 8500/150



16/2G cd **£3099**
£3641 inc vat

p.mac 9500/150



16/2G cd **£3389**
£3909 inc vat

Power Computing

machines are the fastest Mac OS compatible machines out there. Choose from **Power Macintosh** or **PowerPC**.

power tower 166
16/2G cd-rom **£2995 + vat**
£3519 inc

power tower 180
16/2G cd-rom **£3295 + vat**
£3872 inc

memory dimms + simms



MEMORY MODULES

| | | | |
|------------------|------|------|-----|
| 4Mb S IMM memory | £34 | £40 | inc |
| 8Mb SIMM memory | £58 | £68 | inc |
| 16Mb DIMM memory | £139 | £163 | inc |
| 8Mb DIMM memory | £75 | £88 | inc |
| 16Mb DIMM memory | £149 | £175 | inc |

CALL FOR MORE



contact
voice 0171 258 3454
facsimile 723 8150
email tsc@mcm.co.uk

All prices are EX VAT - E & O E



THE SOLUTIONS COMPANY



POWER MACINTOSH G200
This super Power Macintosh G200/75 features a fast 75Mhz PowerPC processor, 8Mb of RAM memory (expandable to 64Mb), 500Mb Hard Drive, Quad-speed CD-ROM drive, TV Tuner with remote control. These special bundles come complete with a MAG 15" monitor, mouse, keyboard and MIDI Interface and FREE MODEM.

complete with vision mac bundle **only £1149 ex vat**
£1350 inc

complete with cubase vst mac bundle **only £1199 ex vat**
£1409 inc

Shown with optional Apple 15" monitor



FREE MODEM

Buy a TSC sequencing bundle and get a 14.4 Kbps 'Internet-ready' modem absolutely FREE.

macintosh midi sequencing

MIDI SOFTWARE

- Opcode Vision FREE Modem £199 £234inc
- Steinberg Cubase VST £249 £293inc
- Emagic Logic £299 £351inc
- Opcode EZ Music Starter Kit £199 £234inc

MIDI INTERFACES

- Midi Translator II 1 in 3 out £49 £234inc
- Midi Translator Pro 2 in 6 out £99 £117inc
- Translator Sync 2/6 SMPTE £169 £199inc
- Studio 4 8/8 SMPTE £349 £410inc

No-one but no-one can match TSC for Macintosh based sequencing. Take for example the exclusive **6200** bundle above, it includes everything. Midi sequencer, multimedia Macintosh, monitor, keyboard. Plus this machine can double as a TV and is ready for **Internet** connection!

Macintosh MIDI Sequencers

Emagic, Steinberg, and Opcode. New Vision v3.0 now only £199 ex VAT and comes with FREE Fax/Modem. New Cubase VST offers superb feature set. Logic as popular as ever.

Macintosh MIDI Interfaces

Choose Opcode MIDI and SMPTE interfaces for Macintosh. MIDI interfaces from only £49 ex VAT. SMPTE/MIDI from only £169.



vision 3.0 £199
£276 inc vat



studio 51x £799
£939 inc vat

digital samplers and synths

Akai
Emu
Roland

Akai 3200XL

Akai's flagship. 16Mb RAM as standard. Hard Disk recording. Comes with multi-effects & 2nd filter board fitted. Incredibly flexible and with unmatched sonic quality.

Akai 3000XL

10 outputs, RAM expandable with standard SIMMS, complete with FREE Mac editing software. Hard disk recording.

Emu EIV

Absolute quality, 128-note poly, exp- to 128 MB RAM, extra output options, SCSI, renowned 'Morpheus' filters, optional dsp board for digital FX.

Emu E64

64 note polyphonic, expandable to 64 Mb RAM, same filtering as EIV, SCSI interface.

Emu Orbit

Dance sample module packed with useable cutting-edge sounds fitted with 6 outputs and 'Morpheus' filtering. Innovative 'beats mode'.

Roland JV1080

The top synthesizer module, 64 note polyphonic. Expandable with optional ROM sample boards.

SAMPLERS & SYNTHS

- Akai 3200XL rrp £2299 £2701 inc
- Akai 3000XL rrp £1299 £1526 inc
- Emu EIV rrp £3199 £3759 inc
- Emu E64 rrp £1799 £2114 inc
- Emu Orbit rrp £599 £704 inc
- Roland JV-1080 rrp £899 £1056 inc

AKAI 3200XL
See below for TSC's special 3200XL bundle which includes Akai CD library 16Mb RAM CD-ROM Player



cd library + cd-rom player
akai 3200xl **only £2399 ex vat**
£2819 inc

contact

voice 0171 258 3454
facsimile 0171 723 8150
email tsc@mcm.co.uk

All prices are EX VAT E & O E





This is...

computer warehouse

ONE OF THE LARGEST APPLE RESELLERS IN THE UK
TWO GREAT STORES PACKED WITH EQUIPMENT
DEDICATED WAREHOUSE & DISTRIBUTION CENTRE
APPLE AUTHORISED SERVICE CENTRE
ALL THE LATEST PRODUCT + SPECIAL CW EXCLUSIVES!

Authorised Reseller

TEL: 0171 724 7104

CONTACT CW ON THE INTERNET <http://computerwarehouse.co.uk> OR EMAIL CW info@computerwarehouse.co.uk

FREE MACINTOSH ADVICE SERVICE



Mac advice is available at all times. We'll help you choose the right Mac for your needs. We'll also help you with your software. We'll even help you with your printer. We'll do it all for you. Free of charge.

CW DELIVERS DIRECT TO YOUR DOOR



Call today with your credit card number. We'll deliver your order and we'll have your right to cancel.

BUY YOUR MACS IN-STORE!



Our Macintosh stores are open 10.30am to 6.00pm. We'll have all the latest Macs in stock. We'll also have all the latest software. We'll do it all for you. Free of charge.

YOU CAN'T BUY BETTER!



6200/75

PERFORMA

ASTONISHING CW VALUE!

The Performa 6200/75 delivers excellent performance, superb multimedia facilities and good expandability - all packaged in one of Apple's classic desktop designs.

- 75MHz PowerPC 603
- X4 CD-ROM drive
- 8Mb of RAM (Exp to 64Mb)
- 1Mb VRAM
- 500Mb Hard Drive
- External SCSI interface
- TV Tuner / Video In - Watch TV or record QuickTime!
- FREE CD-ROM titles!
- FREE PSI 14.4 Fax Modem!

Pictured with optional 15" monitor & keyboard.

6200/75
8/500 CD, KEYBOARD
15" MAG MONITOR
£899

COMPLETE SYSTEM INC SOFTWARE

6200/75 8/500 X4 CD, TV TUNER, MODEM

LOADS OF FREE SOFTWARE!

£699

SAVE ££'S @ CW!!

EX KEYBOARD
EX VAT £821 INC VAT

THIS SPECIAL CW 6200/75 PLUS 2 INCLUDES ALL THIS, FREE!
INSTALLED ON HARD DRIVE: Art Ease, Claris Works, 4-Click, Art, a World, Hypercard Player, MacGallery, Movie Beacon, Teachos Typing, Millie Math House, Spin Doctor, Superbase Wars, Thinking Thing 2
INCLUDED ON CD-ROM: Asterix Language, Comenius, Daring Enquiry, The Way Things Work, EA 3D Atlas, Groliers Encyclopedia, Making Music, Mykt, Maths, Rock, Rap & Roll, Soccer CD, Dinosaur Encounter



WOW!

LOOKS GOOD!

- 801 MHz
- 75 - 90 MHz
- MAX 256MB RAM
- 3 PCI EXP. SLOTS
- 1MB VRAM
- ETHERNET

7200 SERIES

POWER MACINTOSH

STUNNINGLY GOOD CW VALUE!

The CW Recommended Power Macintosh 7200 systems offer enhanced expandability and performance that make them CW ideal for small and medium-size businesses, for home offices, and for educational establishments. With a choice of 75 or 90MHz PowerPC 601 processors, Power Mac 7200 computers offer superb value for money.

- Choose 7200/50 (75 Mhz 601) OR 7200/90 (90Mhz 601)
- 32K on-chip cache. Optional 256k Level 2 cache
- 3 PCI expansion slots - AAUI and 10BaseT Ethernet
- 8Mb RAM memory - exp to a hunting 256Mb via DIMMS
- 1Mb VRAM video memory - expandable to 4Mb
- CD-ROM optional on 7200/75. Included on 7200/90

7200/75 8MB RAM 500MB H.DRIVE

A CIV SUMMER SPECIAL OFFER!
£799

EX VAT £839 INC VAT

NEW Power Computing

POWER CENTER COMPATIBLES

INCREDIBLE CW VALUE!!

The NEW Power Center's feature the super-fast 604 Power PC processor which makes them blindingly swift! Ideal for multimedia creation, music, business, high-graphics, education and home use, they offer tremendous value for money and real giant slaying ability. Just check out these great features:

- Choice of 120, 132 or 150MHz PowerPC 604 models in two casing designs
- Built-in x4 speed CD-ROM drive
- 3 PCI expansion slots
- RAM expansion to 256 Mb using 168-pin DIMMS
- 1Mb VRAM, 15-pin Mac + SVGA ports on board

FREE SOFTWARE!

- Claris Works v4
- News Writer v1
- New Contacts v3
- News Utilities v1
- QuickKey GE
- 256k Ethernet Type I
- Positioning Service
- Claris Multimedia Encyclopedia
- Launch
- The Animate! 2.0
- CD-ROM
- World Atlas
- World Atlas
- World Atlas

P. CENTER
120/132, X4 CD-ROM
£1999

P. CENTER
150/166, X4 CD-ROM
£2495

P. CENTER LOW PROFILE 604/120 8/500/CD
2560 OF FREE SOFTWARE!
£1599

EX KEYBOARD
EX VAT £872 INC VAT



STYLEWRITER 1200

MEMORY SIMMS

1 GIG HARD DRIVE

MOTOROLA MODEM

IONEGA ZIP DRIVE

£95
800KB JET PRINTER

£139
16MB SIMM MODULE

£199
INTERNAL SCSI DRIVE

£139
24.9MB PARADISA MODEM

£159
IOMEGA INCLUDES 1 CASE

SAVE £25 OFF

FAX: 0171 723 8150

TELE: 0171 724 7104

FAX YOUR ORDER OR QUOTATION REQUEST TODAY

CALL INTO: No 9 HATTON STREET, LONDON NW8 8PL

CONTACT CW ON THE INTERNET <http://computerwarehouse.co.uk> OR EMAIL CW info@computerwarehouse.co.uk

All products and offers subject to availability. Prices exclude VAT unless otherwise stated. E&OE. Apple, Power Macintosh are trademarks of Apple Computer. All other trademarks respected.

leader

you can't turn on a TV or look at a newspaper these days without encountering a discussion about the Internet, the information super-highway that will change our lives forever. Indeed, if the more enthusiastic proponents are to be believed, anyone without an Internet address and their own Web page might just as well move into a cave and rub sticks together. And their argument is so logically presented — the wealth of information out there is immense, there are people whose only joy in life is to help their fellow cyber travellers, and musicians from all corners of the globe can collaborate on vast and meaningful, cross-cultural, General MIDI symphonies. There are libraries full of free software to meet your every need, friendly manufacturers to solve any problem you might have with your equipment, and even on-line philosophers and psychoanalysts you can turn to if you develop an inferiority complex about the speed of your modem or the size of your Pentium chip.

This is the promise, but what is the reality? Here at SOS, we've used on-line services to communicate by email for over seven years now. We chose CompuServe, as it has a huge advantage over the mainstream Internet in that it allows users to send each other files that arrive intact, just as if they'd been sent on a floppy disk. Not so with the Internet — it seems email works fine (I can't imagine life without email in my job), but trying to send other types of file via Internet, especially if you're a Mac user, is a complex ritual which involves turning the file into something that believes it's a text message, emailing it, then relying on the person at the other end

having access to a suitable piece of software to convert the file back again. What's more, if the file is over a certain length, it gets broken into chunks which are then sent separately and the recipient has to guess which order they were sent in before they can be reconstituted. If you've ever seen the film *The Fly*, you'll have a fair idea what can happen to files sent via the Internet. The whole experience is so frustrating that on more than one occasion I've resorted to airmailing a jiffy bag with a disk in it!



But what about the wonderful World Wide Web, the data super-highway where

you can browse, graze and cruise as you feed your intellect and your curiosity? Well, I've been there — I've surfed the Net, trawled hyperspace and supped at the cybercafe of life, but compared with the so-called information super-highway, the M25 during rush-hour is like Silverstone; it's not so much like surfing as wading through a tar-filled septic tank wearing ill-fitting Wellington boots, partly filled with decomposing melon! It's so agonisingly slow — you can easily spend an hour or more trying to track down a useful file only to find yourself wandering down fruitless, time-consuming dead ends. Select a new link and the wait before it appears seems interminable (especially if the USA is awake), and when it does finally materialise, it isn't the data you want anyway. Before you know it, you feel jet-lagged, your eyes are watering, and you desperately want to go to bed (and that's if you log on in the morning!). But interestingly, you persevere and keep doing it, because every once in a while you come up with a nugget of information or a useful file that makes it all seem worthwhile.

Information technology may be the future, but I can't see the Internet being the future of information technology — the information age demands something much faster and better structured. At the moment, the only people who really stand to benefit are the opticians — have you had your eyesight checked since you became a Net addict?

Paul White Editor

SOUND ON SOUND

Media House, Burrell Road, St. Ives
Cambridgeshire PE17 4LE.
Telephone: 01480 461244
Fax: 01480 492422
Email: CompuServe 100517,1113

Editor Paul White

Assistant Editor Matt Bell

Technical Editor Dave Lockwood

Editorial Director Ian Gilby

News Derek Johnson & Debbie Poyser

Advertisement Manager Robert Cottee

Classified Sales Manager Patrick Shelley

Production Manager Shaun Barrett

Ad Production & Design Andy Brookes

Senior Designer Clare Holland

Classified Production Andy Baldwin

Publisher Ian Gilby

Financial Manager Patricia Urwin

Administration Lisa Thompson

Mail Order Sally Thompson

Photography Ewing-Reeson

DTP Bureau Sound Design

Colour Scanning CL Enterprises Ltd

Colour Origination Spectrum Repro Ltd

WYSIWIG

Printing Warners Midlands Plc

Newstrade Distribution Warners Group

Distribution Ltd, The Maltings, Manor Lane,

Bourne, Lincolnshire, PE10 9PH

Subscriptions

UK £35 Europe £50 World £65

Payable in sterling through UK bank

ISSN 0951-6816



A Member of the SOS Publications Group

The contents of this publication are subject to worldwide copyright protection and reproduction in whole or part, whether mechanical or electronic, is expressly forbidden without the prior written consent of the publishers. Certain parts of the publication are subject to copyright in the preparation of this publication but neither Sound On Sound Limited nor the editor can be held responsible for its contents. The views expressed are those of the contributors and not necessarily those of the publishers or editor. The publishers accept no responsibility for the return of unsolicited manuscripts, photographs, or artwork.

Copyright 1996 Sound On Sound Limited, incorporating Music Software magazine & Recording Musician magazine. All rights reserved.



34
Spirit Folio
SX Mixer

REVIEWS

- 31 SyQuest EZ135 Removable Drive
- 32 Fatar 1176 MIDI Master Keyboard
- 34 Spirit Folio SX Mixer
- 36 Shure Beta Microphones
- 38 Mackie 1604 VLZ Mixer
- 62 Event 20/20 Nearfield Monitors
- 66 LA Audio 4x4² 4-Channel Gate Compressor Limiter
- 82 Novation DrumStation Rack
- 90 Steinberg Cubase 3.0 VST for Macintosh
- 104 Digidesign Session for Windows/Audiomedia III PCI Card
- 126 Mutronics Mutator Analogue Filter
- 142 Lexicon PCM80 Expansion Cards
- 164 Digitech MV5 MIDI Vocalist
- 178 Syntechno TeeBee Bass Module
- 196 Tascam 302 Dual Cassette Deck
- 210 Brief Encounters:
Powermaster Rak Mac, Roland MC50 Operations Handbook, Nureality Vivid 3D Stereo System & Prosonix Bantam Patchbay.

SUBSCRIBE & WIN
Tascam 488 MkII Portastudio p230

in this issue

FEATURES

- 40 Paul Gomersall:**
Recording George Michael's *Older*
- 46 Digital DIY**
- 120 808 State**
- 134 At Home With... Nigel Shaw**
- 154 Gary Numan**
- 186 How To Become A**
Record Producer: Part 7
- 198 Richard Symons: Pro Tape**
- 214 Retrozone: Ensoniq SQ80**
Workstation

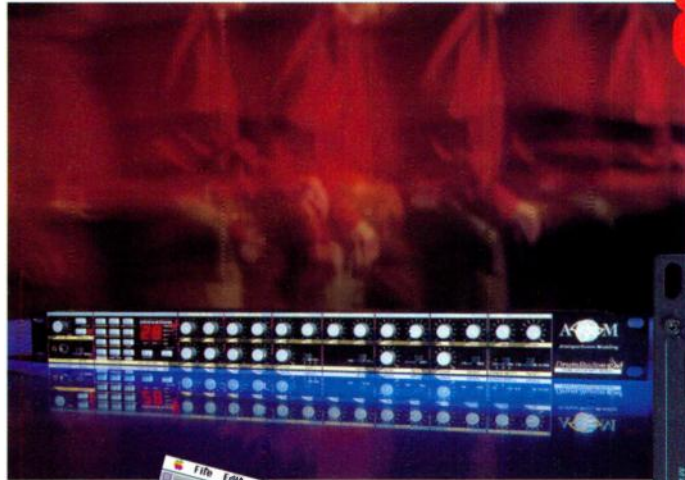
WIN NOVIATION
BASSSTATION RACK p243

SOUND WORKSHOPS

- 70 Fixing The Mix: Part 1**
- 172 Minimising Noisy Effects**

REGULARS

- 8 Crosstalk**
- 12 Shape Of Things To Come**
- 148 Sample Shop**
- 206 Demo Doctor**
- 220 Readers Ads**
- 232 SOS Mail Order: Books, Videos, CDs**
- 244 Classified Ads**
- 264 Sounding Off**



82
Novation
DrumStation
Rack

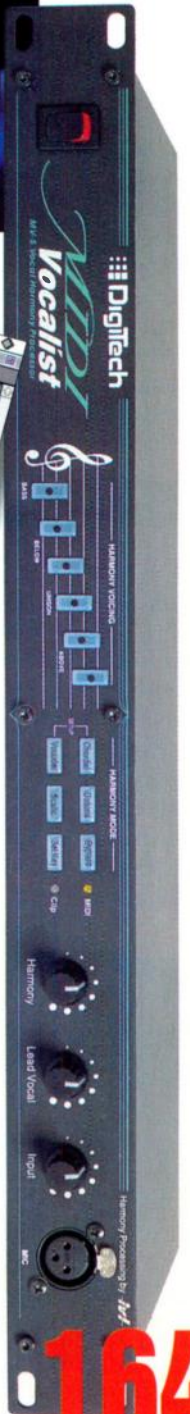


90
Steinberg
Cubase 3.0 VST



154
Gary Numan

| | | |
|-----------------------|------------------|-----|
| Computer notes | Apple Notes..... | 86 |
| | PC Notes..... | 100 |
| | Atari Notes..... | 114 |



164
Digitech MV5
MIDI Vocalist

Crosstalk

Send your letters, tips and comments to: The Editor, Sound On Sound, Media House, St Ives, Cambridgeshire, PE17 4LE.

Our e-mail address is 100517,1113.

or from outside CompuServe, on 100517.1113@compuserve.com

Atari altercation meets Falcon furore

Ofir Gal's Atari Notes column attracted two written comments last month. Sadly, there is not room to print either letter in full — both have been edited for publication.

I am grateful to SOS for all the coverage they give my continuing efforts to promote the Falcon (most commonly in the Atari Notes section of the magazine) but I feel I have to react to the underlying tone of June's Atari Notes.

I should first of all state that there is nothing inaccurate in anything Ofir has said. Indeed, I have never known Ofir to misrepresent any facts about any computer (he has proved one of the best sources of information on computers for me over the years). My argument is with the underlying premise of the feature, which makes several assumptions I feel are misplaced in a musician's magazine...

Ofir does at least start out comparing the

cost of software between a brand new piece of software just announced for the Mac with Falcon *Cubase Audio*, which has been shipping for three years. Whilst no-one who has bought a Falcon/*Cubase Audio* bundle lately has paid anything like £699 for the software, he is correct that that is the list price Harman will quote you for it. But does *Cubase Audio v3.0* for the Mac include Timestretch RAM sampling and 24 parametric EQ modules on hardware that retails for £680+VAT (and can you get the 32 channels he talks about on that computer)?

What I know definitely isn't available for this software on the Mac is the hardware add-ons for separate outs and S/PDIF and Ofir admits this with the phrases "in the near future" and "on the cards". It is still true to say that if you need these hardware add-ons which divide the multimedia sheep from the serious musical goats today, the

Falcon is still the only system which delivers at this price point.

Of course, if you only want stereo-in, stereo-out with computer-quality converters now and don't mind waiting until these hardware add-ons become available, then the Power Mac with *Cubase v3.0 VST* looks a good solution... But to suggest that the Mac has caught up before the hardware add-ons can be bought, plugged in and used is misleading...

You may say that I am over-reacting to a piece that simply suggested some alternative options, but that is not how the people who are attending my roadshows are interpreting it. Several people have said that they are now really worried about buying a Falcon, even though they have never heard of Adobe Photoshop and have no interest in the Internet. What they want is a computer for music, and the Falcon seems to do everything they want, but they feel it can't be any good if the guy who writes SOS's Atari Notes is suggesting the Mac looks a better bet... One guy actually suggested that Ofir must have been paid by someone to destroy the Falcon's reputation. I don't think that for a second, but that was a genuine comment from someone who had just read Atari Notes expecting to get information about using his Atari for music. He was amazed to find that with the Falcon he can go direct in digital into his Yamaha O2R desk using the ADAT interface from SoundPool and that he can create a template for an entire audio CD on the Falcon before blowing a recordable CD. These are facilities which musicians are interested in doing on an Atari-compatible computer because that's what they are used to using. If they want to read about Internet access or photo-retouching, they'll buy a general computing magazine, not SOS...

I hope this letter doesn't read like a spoilt child who isn't getting his own way all the time. It has just been very depressing for me to have spent so much of my own money (not C-Lab's) setting up and doing roadshows all over the country and finding that all my efforts are undermined by comments made in the Atari Notes of SOS, where I had always looked previously for support. I have always believed in the

Midiman Muddled

Following the publication of the MIDIMAN press release in SOS May '96 (p.16) announcing the new GMan sound module, I would like to clear up a misunderstanding regarding the sound chip that is used in the module.

The GMan sound chip is a GM/GS-compatible sound module, having taken advantage of the release of the GS specification, and does comply with this specification. This information

was incorrectly given as "Roland-licensed sounds" on the press release. In fact, the sound chip itself is not licensed from nor made by Roland.

I apologise if this has caused any confusion, and would be grateful if you would print an erratum at the earliest opportunity.

Mike Partridge
Midiman UK ☐



QUIET CONTROL.

E62 DUAL 31-BAND 1/3 OCTAVE GRAPHIC EQUALIZER

• Never before could you get this much quiet performance and sonic control in a graphic EQ that sets new standards for quality.

• High-quality, low-noise NJM 2068 ICs and a smart parallel filter design let you operate noise-free with minimal phase distortion.

• Super-low Total Harmonic Distortion of less than 0.0035% (20 Hz—20 kHz) adds up to transparent audio.

• Balanced XLR and 1/4" inputs and outputs for more effective interfacing.

• ± 15 dB of boost and cut over 2 x 31 carefully selected frequency bands.

• Extra-wide frequency response (10 Hz—50 kHz) retains the full harmonic integrity of your program material for a more "musical" sound.

• Internal bipolar power supply gives you plenty of headroom (+28 dBu output), especially important in sound reinforcement.

• Time-delay circuitry eliminates speaker "thumps" when powering on. Hard-wired bypass feature even lets you pass signal if you lose power!

• Peak level LED indicators for each channel light 5 dB prior to clipping so you can prevent distortion before it happens.

• Bypass switch coupled with level control lets you quickly compare the direct and equalized signal.

• All-steel chassis provides maximum shielding and long-term durability.

• Optional security cover kit eliminates accidental tampering—a critical feature in fixed installation use.

• Suggested retail list price £299 inc. VAT.

• Stereo and dual mono operation for either stereo or individual channel processing.

SAMSON

© 1996 SAMSON



Sound Technology plc
Letchworth Point, Letchworth, Hertfordshire, SG6 1ND England
Tel: +44 (0) 1462 480000 Fax: +44 (0) 1462 480800

WHAT'S NEW?

The E30 Dual 15-Band 1/2 Octave Graphic EQ. Same comprehensive control, super-quiet performance and crucially important features as the E62. £219 inc. VAT.



Crosstalk

► freedom of the press to tell it like it is — I just worry when someone tells it like it might be on the Mac, when they are supposed to be telling you how it is on the Atari platform.

Paul Wiffen
Digital Media

I write as an advertiser in SOS to question the content of Atari Notes, currently written by Ofir Gal. The words 'turncoat' and 'judas' spring to mind concerning the way he seems to be turning away from the machine which I presume has made him a lot of money...

At this juncture, let me state that my business is mainly involved in Cubase and music on the ST, so my comments should be taken in this context...

March's Atari Notes is mostly Falcon-orientated... and April's Atari Notes was full of info of little use to a muso (multitasking and Magic, which no self-respecting user would try to use with Cubase...) In May, the article again has nothing of value to the musician...

Finally, to June. Surely this Atari Notes was meant for the Mac Notes page. Nothing for the Atari musician — just 'buy a Mac'. Ofir Gal is taking money under false pretences if he thinks this irrelevance is of use to an Atari user...

We can keep the ST running for another 10 years. It does the job, and on value-for-money grounds alone deserves better treatment than given by recent articles. I suggest Ofir re-reads Vic Lennard's last few Atari Notes and continues in that vein, instead of undermining the ST simply to fill column inches...

Barrie Heywood.
Keychange Music Services
Cheshire

Ofir Gal replies: *I must say I'm surprised with the responses I got to my Atari Notes column. In the first letter, Paul disputes the prices I quote. I always quote recommended retail prices, and as any SOS reader knows, you can always get a better price in the shop. Would it be any fairer to compare Mac retail prices with Atari discount prices?*

Paul may also think that musicians are not interested in the Internet or desktop publishing. Well, my band is just about to release an album and we found the Mac very handy. It was used to design the CD cover and booklet as well as taking care of more mundane tasks like sending faxes. The various music and MIDI-related areas on the Internet are



extremely busy, so someone out there must be using it. Most of the specific examples he gives, the ability to burn an audio CD-ROM for example, have been available on the Mac for some time.

Mr. Heywood accuses me of writing about things that no "self-respecting muso" will want to use. Well, if the muso is working, he may well be using his Atari for writing invoices, keeping a database of contacts and even doing his accounts.

What Mr Heywood seems to forget that unlike the Atari market which he is involved in, the rest of the computer industry has moved on. There's no point referring to Vic's old Atari Notes — things were different then, and both Vic and I held a more optimistic view of the Falcon. Vic has since sold his Falcon — I still use my Atari. It is sad, but the ST/Falcon-related press releases and product announcements are not exactly pouring in.

I believe that my piece simply stated facts about the Falcon and computers in general. Indeed, I sum up my article by saying that the Falcon does its job well, and you should only look at the alternatives if you need the extra features they offer. My real intention was to bring the availability of two fine products, namely MagiC Mac and GEMulator, to the attention of the reader. I spend a considerable amount of time each month searching for interesting new Atari-related products. I trust both Paul Wiffen and Barrie Heywood will keep me abreast of new developments, so that I can continue to report Atari news to the readership.

Editor Paul White adds: *While I concede that June's Atari Notes included certain negative*

comments about the Atari platform, I feel that Ofir made a number of valid points — remember that Atari Notes is there to provide information to broaden the knowledge of Atari users, not to try to persuade them to use the platform, or to abandon it for that matter. After all, look at how many Mac magazines ran in-depth articles on Windows 95 when it first came out! Column writers invariably hold personal opinions, and I expect their copy to reflect what they would say if someone asked their advice privately.

I have an Atari ST of my own running C-Lab's Creator software, and it has given me reliable service for almost a decade, but most of my work is now done on a Mac running Emagic's Logic or Logic Audio. The Atari delivers wonderful performance for its price, but after working with a Mac, the Atari feels horrendously clunky. Ofir made a fair

point about Atari users being able to upgrade to the Mac without too much pain, because the Atari operating system is, conceptually, very similar. Indeed, that's exactly why I went the Mac route. To use a car analogy, the Atari is like an old VW Beetle — it is reliable, inexpensive to run and goes on forever, but after driving an executive saloon for a few weeks, the Beetle's hard ride, manual-wind windows, noisy engine and non-power steering suddenly look rather crude. Even so, it will still get you from A to B, and will, as Barrie Heywood suggests, probably continue doing so for the next 10 years or more.

In past issues of SOS, you will have noticed a number of anti-Apple digs in Apple Notes, while the frustrations of PC ownership surface in various parts of the mag, not just in PC Notes! No computer ever built is above criticism. Our aim is to present the facts as we find them, and the truth is that all of the major computer platforms have flaws. These are often most serious when you try to indulge in hard disk recording — a significant percentage of the readers' queries I get concern hard disk 'MIDI plus Audio' sequencers that either refuse to work at all or deliver sub-standard (and/or unstable) performance when they do work. Of the calls I receive, those concerning Falcons tend to be rather more numerous than the machine's market share might suggest, whereas almost nobody calls with Atari ST problems.

Of course, where there are problems, there are solutions, so if any of the manufacturers out there would like to let us in on the workarounds for the various problems rather than simply pretending they don't exist, we'd have a lot more positive things to put in SOS's Computer Notes pages! ☺



MORE BUSES, MORE PREAMPS, MORE EQ, MORE FEATURES. INTRODUCING THE NEW CR1604-VLZ.

Five years of user input, new materials, new technologies and the soul of our 8-Bus...at a super-low price.

TRIM control on the channel strip 60dB total mic gain; -10dB "virtual pad" for line inputs.

6 AUX SENDS per ch. Aux 1 & 2 switchable pre/post. Post-fader Aux 3-4 15-6 selectable via Shift switch.

HI EQ. +15dB shelving at 12kHz.

SWEEPABLE MIDRANGE. Wide, musical peaking EQ with 100Hz to 8kHz range. +15dB range.

LO EQ. +15dB shelving at 80Hz.

LOW CUT FILTER is a must for live sound and acoustic (microphone) recording. Sharp, 18dB/octave @ 75Hz high-pass filter lets you add Lo shelving EQ to vocals without boosting undesirable mic thumps, stage rumble, wind noise, P-pops, etc.

PAN control with constant loudness to maintain stereo perspective.

MUTE switch.

MUTE & OVERLOAD LED. -20dB SIGNAL PRESENT & SOLO LED.

SOLO. In-place AFL or PFL.

BUS ASSIGN for Subs 1-2, 3-4 & Main L/R.

60MM FADERS with 8-Bus log taper, special lip seal & long-life wiper material.

BUILT-IN power supply.
PHANTOM POWER switch

Studio-quality **DISCRETE MIC PREAMP** on every channel.

The original CR-1604 defined the modern compact mixer. Now we've "raised the standard" by adding over 20 new features like true 4-bus design, our famous mic preamps on every channel, flexible routing and monitoring, and swept mid EQ — for just scarcely more than the original CR-1604. Call for a free 40-page brochure.

5-WAY PHYSICAL CONFIGURATION

via our famous rotating input/output "pod." In minutes you can switch the CR1604-VLZ between ultra-compact 8-rack space configuration with pod to back 1, rackmount jacks-to-top 2 or tabletop jacks-to-back 3. Optional RotoPod-VLZ bracket places input/output jacks on same plane as the controls (tabletop 4 or rackmount 5).

MONO OUTPUT (bal./unbal.) has separate level control.

RCA TAPE inputs and outputs—(unbalanced).

Separate **CONTROL ROOM** OUTPUT (bal./unbal.).

DIRECT OUTPUTS (bal./unbal.) channels 1-8.

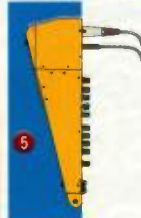
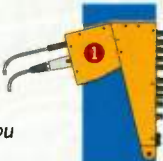
SUBMASTER OUTPUTS (bal./unbal.).

Pre-fader **INSERT** on every ch.

16 STUDIO-GRADE MIC PREAMPS means the new CR1604-VLZ actually costs less than our classic CR-1604 & XLR10 expander combination!

VLZ (Very Low Impedance) CIRCUITRY developed for our 8-Bus consoles, further reduces noise and crosstalk in critical signal path areas.

SOLID STEEL main chassis. **SEALED** rotary controls.



AUX SEND 1 & 2 MASTERS.

Stereo **AUX RETURNS 1 & 2** with 20dB gain above Unity for boosting weak effects.

EFFECTS TO MONITORS controls fold Aux Return 1 & 2 back into Aux Sends 1 & 2 so that on-stage performers can hear effects.

AUX SEND 1 & 2 SOLO switches with LEDs.

Stereo **AUX RETURNS 3 & 4.**

Aux Return 3 **ASSIGN SWITCHES** to Main Mix, Subs 1 & 2 or Subs 3 & 4.

Aux Return 4 **ASSIGN** to Control Rm/Phones.

CONTROL ROOM/PHONES level control.

TAPE INPUT LEVEL control and **TAPE TO MAIN MIX** switch.

SWITCHING MATRIX. This fantastic creative feature lets you route any combination of

Tape, Subs 1 & 2, Subs 3 & 4 or Main Mix to Control Room/Phones bus. Lets you create custom headphone or broadcast mixes, monitor 2-track output or route a cue/click track to phones, create a second stereo main output with its own level control & more (covered in the extensive manual).

Global **SOLO** level control.

Global **AFL/PFL SOLO** switch.

SUB ASSIGN to Left or Right Main Mix.



MAIN MIX FADER.

BNC Imp socket.

Global **AUX RETURN SOLO** with LED.

LED METERS with -30 to +28 range & **LEVEL SET** LED.

RUDE SOLO LED.

HEADPHONE output.

60mm SUB-MASTER log-taper faders.

©1996 MACKIE DESIGNS INC. ALL RIGHTS RESERVED

MACKIE

Mackie Designs Inc. • USA • Represented in the UK by Key Audio Systems Ltd.
 Robjohns Road • Chelmsford • CMI 3AG • Essex • 01245 344001 • 01245 344002

shape of things to come

by Derek Johnson & Debbie Poyser

The X (Music) Files

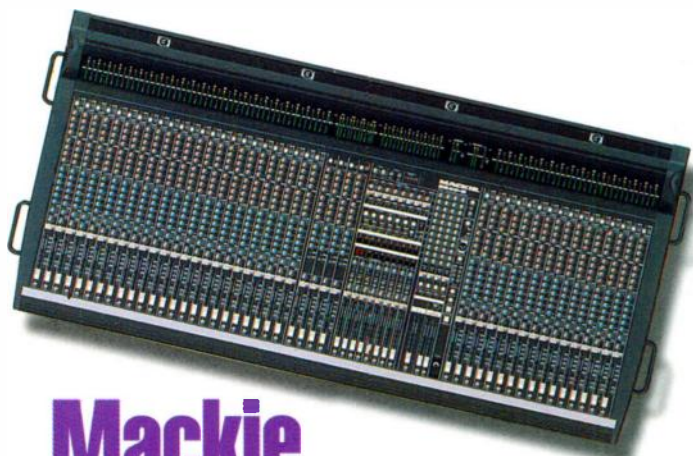
Bristol-based music equipment retailer X Music have announced the winner of their 'extremely silly' photo competition. Jason Pegg of Brighton netted himself a Roland MS1 sampler by simply sending in the rather odd photo of himself shown below — well, we assume it's him, anyway... Not known for resting on their laurels, X Music have already outdone the splendid silliness of their

photo competition with the premise behind their *new* competition. It's very simple — essentially, the person who is deemed to have sent the most unpleasant, smelliest pair of socks to

X Music (remember, X Music, *NOT* the SOS offices — we're very keen to stress that) wins themselves a pair of Spirit by Soundcraft's new Absolute Zero monitors. Phew!

SOS staff are just glad they don't have to judge *that* one... And what happens if you only send in one sock? Do you only get one monitor? We think we should be told...

A X Music, 20 Cotham Hill, Cotham, Bristol BS6 6LF.
T 0117 973 4734.
F 0117 973 4800.



Mackie mixes with Digidesign

Mixer manufacturers Mackie Designs and digital recording specialists Digidesign have announced that they are to jointly develop a "low-cost" hardware control surface for Pro Tools, as well as other DAE-based products. Scheduled for release later this year, the new product will feature touch-sensitive moving fader technology, transport controls, and basic editing facilities. More details when we get them.

Back in the world of hardware mixers, Mackie's latest design is the SR40•8, a large-format, 'centre master section'-style sound

reinforcement console with full mute automation. The new desk claims to offer the features found on a \$20,000-\$40,000 desk for substantially less — in the region of £8,500 in the UK. Improvements in manufacturing technology have allowed Mackie to achieve significant savings. Yet the desk is still fully featured, and includes a 12 x 4 matrix section, eight aux sends, 4-band EQ (with swept hi- and low-mids), comprehensive talkback, and much more.

A Key Audio Systems Ltd, Unit D, Chelford Court, Chelmsford, Essex CM1 3AG.
T 01245 344001.
F 01245 344002.

Michael Gerzon (1945-1996)

Renowned Oxford-based mathematician and scientist

It is with great sadness that Waves announces the passing on May 6 of Michael Gerzon, the inventor of many key technologies behind Waves' DSP software. Michael Gerzon was 50 years old and had suffered from severe asthma for many years.

Mr Gerzon graduated from Oxford University in 1967 and did post-graduate research in axiomatic quantum theory there. He undertook extensive research in psychoacoustics and was awarded an AES Fellowship for work on directional psychoacoustics in 1978. He also had extensive practical live recording experience in

classical, jazz, improvised and rock music, including several LP and CD issues. He was the co-inventor of the Soundfield microphone and was deeply involved in its development. He was also the main inventor of the Ambisonics technology for surround sound, under the auspices of the British Technology Group.

In 1971 and 1976, he published papers on multi-channel versions of the Schroder-Loagan algorithms for 'unitary' networks. This was the basis for the Waves *TrueVerb* and other future products. Mr Gerzon formulated all mathematical and physical models of Ambisonics, for which he was awarded the AES Award for Excellence in 1992.

Michael Gerzon had endless creativity, ideas and enthusiasm for his work. He did not need much for himself and truly worked out of enjoyment, together with a strong sense of mission.

SOS can be reached on CompuServe; our e-mail address is 100517,1113.

Our full Internet address is 100517.1113@compuserve.com.

FAR out speakers from Belgium

Stockport's Axis Audio Systems have announced the availability of a range of professional monitor speakers from Fundamental Acoustic Research (FAR) of Belgium. Axis are to undertake exclusive UK distribution of the range. Seven models are available, from the CR10 compact 2-way nearfield monitor, with a 5-inch LF driver and a retail price of £499, through the larger 2-way CR20 and CR40, with 7-inch and 8-inch LF drivers respectively, at £799 and £699 (the more expensive CR20 has a Kevlar HF cone), up to the top of the range DbW200, a 3-way model with dual 12-inch bass drivers, at £4569. In the middle of the range are 3-way models costing £1485, £1995, and £3995. Prices

include VAT and are per pair.

All the models above come in soft black or blue finishes, but other custom colours are available at a small extra charge. Contact Axis for more info or a brochure.

A Axis Audio Systems Ltd, 3 Waterloo Road, Stockport, Cheshire SK1 3BD.

T 0161 474 7626.

F 0161 474 7619.



Shelter stage house night for homeless

It's a little known fact that Bristol has the second highest number of homeless people in Britain outside London. In an attempt to fight the complacency amongst 'young people' when faced with youth homelessness, the volunteers at Shelter's Housing Aid Centre in Bristol are arranging a club night at the New Trinity Community Centre. Trinity is apparently a popular local night club, and Shelter have got the venue for free (apart from security and equipment hire). The club holds 950 people, and DJs already agreeing to appear for free include Andy Weatherall and Justin Robertson. Other national and local DJs are yet to be confirmed — there may well be more famous names to come. The date to put in your diary is October 26; contact Shelter in Bristol for further details. Ticket prices have yet to be set — again, contact Shelter for details.

The group are also looking for a PA for the night, so if anyone in the industry thinks they can help, the team would be more than happy to hear from you.

A Shelter Bristol Housing Aid Centre, 3rd Floor, Sterling House, Fairfax Street, Bristol BS1 3HX.

T 0117 926 8115.

F 0117 926 8617.

Soundivision Ltd, in association with the Mean Fiddler and Universe Organisations, have announced Dance-Tech

'96, an exhibition dedicated to DJs, remixers and producers. The event, which is officially sponsored by Roland UK and *DJ* magazine, will offer attendees the opportunity to see, hear and demo the latest dance music-orientated products. Hi-tech manufacturers showing their wares include Roland, Yamaha, Akai, Korg, Emu and Novation; suppliers of DJ products at the event include Technics, Vestax, Pioneer, Denon, and Gemini.

Dance-Tech '96 takes place at the new Complex Club at 1-5 Parkfield Street, Islington, from 1pm to 6pm on July 7. Entry is £3 in advance or £3.50 at the door. All visitors will have the chance to enter a draw for six Complex VIP tickets, a Roland JS30 sampler and six annual subscriptions to *DJ* magazine.

A Soundivision, Adelaide House, 383-385 Liverpool Road, Islington, London N1 1NP.

T 0171 609 6639.

F 0171 609 1310.

Sounds of summer: Dance-tech '96



L-R: Soundivision's David Graham (MD) and Paul Harris (hi-tech and studio manager) with Universe Organisation's Chris Birch (marketing) and Ian Jenkinson (co-director).

caught in the net

WEB MASTER

UK mixer manufacturers Studiomaster have a new web site featuring a full catalogue of the Studiomaster range. The site will also contain regularly updated news pages with information on forthcoming products and other fun stuff. Surf on down to:

<http://www.studiomaster.com>

XG FAQ — FAB!

Yamaha have launched an XG home page on the world wide web. The new site offers information about the latest XG instruments, an explanation of the

XG format and a comprehensive XG FAQ (Frequently Asked Questions) section. There's also an XG Library of downloadable MIDI song file data and MIDI clips, which will be regularly updated. Note that the site doesn't offer technical support, but Yamaha say the information available could answer many XG-related questions. You can find the XG home page at:

<http://www.yamaha.co.uk/>

CYBER SPACE FROM TC ELECTRONIC

TC Electronic's TC CORE

(Co-efficient Optimised Room Emulator) Reverb v2.0 for the M5000 Digital Audio Mainframe can now be downloaded by M5000 users, free of charge, from TC's web site. All M5000 users who purchased and registered their M5000 before April 3 of this year will receive the v2.0 software by mail, but future software updates will only be available via the TC web site. The new software features small room and plate reverbs and is the first in a series of CORE reverbs.

Head for:

<http://www.tcelectronic.com>

Observant readers of last month's Effects Buyers Guide will have spotted a change of UK distribution for ART effects. We can now confirm that Key Audio Systems are exclusive UK distributors of the redesigned ART range.

T 01245 344001.

Voyager Media are compiling unsigned artists onto CD compilations; the compilations will be grouped into three categories — Dance/Pop, Rock/Indie/Guitar, and Miscellaneous. There is a charge for the service — £117.50 including VAT per track. This entitles the customer to receive 14 copies of the CD, which will be packaged with artwork and band information.

T 01382 205100.

Alan Parsons has recently begun recording a new album (his 20th), and will be using a range of Audio Technica mics to get the job done. AT4050s will be used as drum overheads, vocals and piano mics, while AT4051s will be used on guitar cabs. Alan has been a fan of Audio Technica mics for several years, and used the company's mics exclusively on his recently-completed world tour.

T 0113 277 1441.

Mastering and post-production house The Digital Audio Company have launched a new CD manufacturing service. Previously, the company was involved in mastering and transfers for CD production, but now they've responded to customer demand and can handle the whole process, from raw session master to delivery of the finished product. The Digital Audio Company creates CD masters on Exabyte — "to ensure data integrity" — although CDR and 1610 remain available, and the company will continue to provide mastering and transfers to anyone with their own manufacturing arrangements.

T 01756 797100.

US company BBE, manufacturers of the Sonic Maximizer range of psychoacoustic enhancers, have published a glossy new brochure with details of the whole Sonic Maximizer range, plus BBE's two acclaimed instrument preamps. The brochure also includes an explanation of how the BBE system works to improve the sound of recordings. You can get your copy from UK distributor MAD, at the address below.

A Music & Audio Distribution, 10 Station Parade, Willesden Green, London NW2 4NH.

T 0181 452 1009.

F 0181 452 9019.

Orbital programme the future with Prophecy



While working on their most recent album, *In Sides*, Paul and Phil Hartnoll — better known as Orbital — took delivery of a Korg Prophecy physical modelling synth.

The duo have made use of the sonic potential of the Prophecy on the new album.

Still on the Prophecy front, Korg UK have released two new banks of sounds for the synth. Titled 'Analogue and Vintage Sounds' and 'Modern Models', both the new banks make full use of the Prophecy's five different virtual synthesis methods, and are available as either RAM (£89) or ROM (£50) cards.

A Korg UK, 9 Newmarket Road, Kingston, Milton Keynes MK10 0AU.

T 01908 857100.

F 01908 857199.



Crimewatch SOS

Thieves struck at the Barnet branch of Digital Village over the weekend of 25th-26th May. The following new gear was taken:

Two Akai Remix 16 samplers; Akai CD3000i sampler; Akai S3200XL sampler; two Fostex DMT8 digital multitracks; two Fostex D80 digital multitracks; two Roland VS880 digital recorders; Roland DM80 digital recorder; Roland JV1080 synth module; two Roland Dance and two Orchestral synth expansion boards; Roland Vintage and Roland Dance Sound Expansion series sound modules; three Oktava MK219 mics; two Audio Technica ATM series mics; Phonic UM97 mics; one Iomega Jaz drive; three Mackie 1402 mixers and one Mackie 1604 mixer; one pair of Spirit Absolute 2 monitors; Technics WSA1R synth module; four Tascam DA20 DAT recorders; two Emagic Logic and two Logic Audio sequencer packages; Shure SM57 and SM58 mics; ART Tube MP mic

preamp; MIDIMan MacMan MIDI interface; an 80MHz Apple Mac 7100, with 8Mb of RAM, a 500Mb hard disk, and a CD-ROM drive; two Korg 05R/W and two X5DR synth modules; four 270Mb Syquest cartridges; 10 100Mb Zip cartridges; and three 135Mb EZ cartridges.

If you are offered any of the above in suspicious circumstances, or know anything that might help, Ray Edwards of the Digital Village would love to hear from you on 0181 440 3440. Alternatively, give the details to the officer in charge of investigating the break-in, DC Pleece (and yes, that is his real name!) at Whetstone police station (0181 733 5206).

During the same incident, reader Alan Broadbent also lost his Roland DM800, which was on the Digital Village premises awaiting repair. There are one or two distinctive points about his unit which might make it easy to identify: firstly, it is equipped with the new v2.01 operating system, which few units have as yet; secondly, it has two internal 500Mb hard drives, one of which is not working; last but not least, it has a serial number of H30558. Please call Alan on 01959 571548 if you know anything that might help.



Uncool



Uncomfortable



Warmish



Cool



Really Cool

-273.15°C

Absolute Zero

 **SPIRIT**
Absolute Zero

Spirit Absolute 2 shattered the complacent world of nearfield monitoring, rapidly becoming the preferred choice of professional studios around the world. Now you can get the Absolute sound in a smaller 95W per side package.

Absolute Zero delivers crisp, full-bodied audio in a surprisingly small-footprint, low cost, speaker. The sturdy, no-compromise design produces the consistent, high quality results you'd expect from Spirit – and at the ridiculous price point of around £200 including VAT.

Whatever the use, studio monitoring, installed sound systems or even with a hi-fi, play it cool with Absolute Zero.



Cool me down with more information on Absolute Zero.

Name:
Address:

Which magazines do you read regularly?

I will use my Absolute Zeros for:

SPIRIT

By Soundcraft

H A Harman International Company

<http://www.spirit-by-soundcraft.co.uk>

Spirit by Soundcraft™,
Harman International Industries Ltd.,
Cranborne House, Cranborne Industrial
Estate, Cranborne Rd, Potters Bar, Herts
EN6 3N, England. Tel: +44 (0)1707 665000.
Fax: +44 (0)1707 665461.

Akai DD1500: Major update

Akai have announced a set of major enhancements for the DD1500 Digital

Audio Workstation, with the release of software version 2.00. The new version adds five DSP (Digital Signal Processing) functions — Timestretch, Pitch-Shift (both with a range of -50% to +200%), Varispeed, EQ (with six filter types) and Reverse. The DSP functions are 'off-line' (ie. non real-time) and available on complete edit ranges (so you could timestretch a cross-section of all 16 tracks, for example, if required).

Version 2.00 also includes a flexible Autoconform package, which supports most known EDL (Edit Decision List) formats. Video edits can be shown on a spare audio track, and the EDL can be edited graphically before audio is conformed into the DD1500. Audio can be conformed by Track, Cue, Reel number or selected region. The DD1500's backup options are also enhanced by the new software, which supports the



newer generation of 4mm and 8mm tape drives. DD1500 prices start at around £12,000 plus VAT for a 16-track system with mix outputs and a 2Gb hard disk.

The BBC obviously find the DD1500 just right for their broadcast production needs: various BBC departments have taken delivery of no less than four DD1500 systems to go with the ones they already have.

A Akai (UK) Ltd, Haslemere Heathrow Estate, The Parkway, Hounslow, Middlesex TW4 6NQ.

T 0181 897 6388.

F 0181 897 1508.

education corner

LOTTERY WIN FOR ESTOVER

Estover Community College in Plymouth has won £720,000 from the National Lottery for a new community music centre in the South West, to be called The Soundhouse. The College will develop the new centre in partnership with the acclaimed Estover Percussion Project, whose bands include pan



ensemble Real Steel, junk-funk outfit Weapons of Sound, and the 50-piece street band Jam Samba.

The Soundhouse, to open in 1998, will be equipped with a digital 24-track studio, plus performance and rehearsal spaces. This will allow the College to develop its portfolio of Music & Technology courses, currently being run in cramped though well-equipped accommodation. Courses currently on offer include the Music & Technology Training course (MATT); Introduction to MIDI; A-level Music Technology; and, from September, GNVQ Performing Arts. Additional units on the MATT course include ABRSM Exams and Trinity Rock School.

T Dave or Alex, 01752 781714.

F 01752 788569.

E 100764.3151@compuserve.com

WEEKEND BREAK WITH SONE AUDIO

Sone Audio Training are offering a range of weekend-long, hands-on training courses designed for those who wish to further their knowledge of recording and music technology. All aspects of the recording chain from mics to mastering will be covered. The course is supported by Soundcraft and uses facilities provided by the London College of Music and Thames Valley University.

A Sone Audio Training, Down To Earth Centre, Broadway, London E15 1NG.

T 0181 534 6605.

YORK UNIVERSITY'S COMMUNITY SERVICE

The University of York is to introduce a new MA course in Community Music — the first to be offered by a British University. It will be a part-time course starting in October, and is

based on a series of short modules, some academic and some vocational. The course is designed to meet the needs of students who are developing music skills in a community setting, such as a school, youth club, hospital, day centre, or prison. York Music Department's past work in Community Music has included training BBC orchestras to work in schools, training prison staff to work music in their work with prisoners, and running vocational courses in music technology for the young unemployed. Students will follow both core modules and options, often including practical placements, and will also submit a research project.

A Department of Music, University of York, Heslington, York YO1 5DD.

T Bruce Cole 01904 433957.

LEWISHAM GOES LIVE

From Autumn, Lewisham College will be offering two new BTEC courses: the National Diploma in Film & Television and the National Diploma in Sound Recording and Broadcasting Media. Other courses available this year are one-year Foundation and Access courses and a two-year National Diploma in popular music, and the college also offers City & Guilds and London Open College Federation courses in sound engineering.

Bands composed of 1996 Lewisham students are playing live at the Albany Theatre, Deptford, London, on 25th and 26th June. Styles will range from soul, jazz and rock to reggae and world music. College tutors will also be at the Albany to give information on courses at Lewisham College, so it's an ideal

Heavenly Music UK are pleased to announce the immediate US availability of their range of building block software, via an exclusive distribution deal with Tran Tracks US. Tran Tracks introduced

USA: Heavenly's final frontier

Heavenly's products at the recent NAMM exhibition. Having pioneered the market in the UK and Europe in 1992, Heavenly now see the US as ripe territory for their acclaimed high-quality MIDI file productions.

Back in the UK, Heavenly have a range of new products:

- The new Professional Song File compilations are aimed at the

gigging musician. Each compilation contains two 5-song sets with a focus on a particular style — Motown, Beatles, Dance, Rock, and so on. The introductory price per disk is £14.99 including p&p, for a limited period only.

- The Heavenly *SBK AWE32 Sound Fonts* range has been expanded with *Classic Kits Volumes 1 & 2*. Each disk contains four new drum kits for the AWE, suitable for a wide range of styles. Also coming soon is the *Fairlight II SBK* series — virtually the

entire sound set of the legendary Fairlight! *Classic Kits 1 & 2* cost £14.99 each, including p&p.

- *MIDI Robics* is a set of diagnostic MIDI files aimed at the serious MIDI user — useful in various situations, from setting up a multitimbral sampler to testing a complete MIDI system. Test signals for virtually every currently used controller are included. GM, XG and GS templates

are provided to help with sequencing MIDI files, and there are also optimised demo files for each format, plus text files with hints and tips.

Again, the price is £14.99.

- Last but not least, Heavenly are offering a collection of the most useful Windows shareware, including MIDI utilities, disk copiers/formatters, databases, calculators, PIMs, art programs, sounds, pictures — almost everything a project studio is likely to want. All applications are supplied as a self-extracting EXE, and the price is a mere £4.99.

Free demo and catalogue packs can be obtained by sending a blank (formatted) floppy disk and an A5 stamped, self-addressed envelope to Heavenly at the address below, or sending a request via email.

A Heavenly Music, PO Box 3175, Essex CO15 2RP.
T 01255 821039.
F 01255 821039.
E heavenly@ortiz.demon.co.uk



Surrey's Wychwood Recording Studio, a 24-track, ADAT-based facility which is gaining popularity with record company A&R departments engaged in artist development, has equipped its control room with a Soundtracs Solitaire 24PB console. Polygram producer Tim Laws is currently working with new artist Otis on a debut album at Wychwood. Pictured are Otis, Tim Laws (middle) and Wychwood's Richard Carson.

T Soundtracs 0181 388 5000.

opportunity for interested parties to get an idea of what can be achieved. Tickets are available from the Albany box office on 0181 692 4446. For details of courses, contact the address below.

A Information and Admissions Centre, Lewisham College, Lewisham Way, London SE4 1UT.

T 0181 694 3240.

T Freephone 0800 834 5454.

SERVICING ON COURSE FROM GATEWAY

Gateway and Kingston University's new Sound and Music Industry Service Course, due to commence this September, is to be a 2-year modular Diploma featuring modules on analogue and digital electronics; software writing and development; electronic sound processing; acoustics and listening skills; recording systems and practices; music business studies; and marketing. The course has been developed in conjunction with leading recording and music industry players, and places a strong emphasis on technical competence, technological expertise and hands-on audio experience. Gateway founder David Ward commented that: "The industry has been asking for this type of course for several years, and we are all aware of the shortage of trained service personnel... In some sectors, service personnel sit at a bench all day and change circuit boards. In our industry, service has a much higher status and consequently training needs to be at a much higher level. It is also important not to overlook the communication skills that a service engineer needs to have, particularly in recording studios."

The new course will result in a Higher Diploma in Sound and Music Industry Service and is currently going through Kingston University's quality control procedures.

A Gateway, The School of Music, Kingston Hill Centre, Surrey KT2 7LB.

T 0181 549 0014.

F 0181 547 7337.

MUSIC GOES POP IN THE MIDLANDS

Nottingham's Arnold & Carlton College is staging the second annual Music Industry Week in Nottingham this July. The four-day event is organised by tutor Carlos Thales and is aimed at anyone interested in getting into any area of the music business, including musicians, promoters and DJs. You'll be able to meet people from the industry (including representatives from labels EastWest, China, Ten and Creation), get your hands on hi-tech equipment, and take advantage of MIDI, PA and business seminars. Carlsbro Sound and the Confetti School of Recording Technology will also be involved, and this year musicians will be given a chance to perform at some of Nottingham's "leading venues".

A Arnold & Carlton College, 29 Wensley Road, Woodthorpe, Nottingham NG5 4JW.

T 0115 953 1222.

F 0115 953 1185.

MT STUDENTS SYNC OR SWIM ON ALBUM PROJECT

Music technology students at Preston College have spent the last eight months preparing a 15-track compilation CD, as part of the Sound Business Project, the major assignment in the

final year of the BTEC course. The tracks, which vary from dance and pop to rock and punk, were all written, engineered and produced solely by second-year students in the college's digital studio. The money for manufacturing the CDs was raised from advance sales, a raffle and a Christmas party. The project was handled as a fully commercial enterprise, to simulate the pressures and problems found within the music industry. The CD, *Sync or Swim*, price £6.99, is available from most record stores in Preston.

A Head of Music, Sound Business Project, The Park School, Preston College, Moor Park Avenue, Preston PR1 6AP.

T 01772 254145.

ENGINEERING AT ESSEX

The University of Essex is offering a nine-month, full-time MSc in Audio Systems Engineering. Core subjects include systems design, analogue systems, digital systems, perception of complex sounds in speech and music, theory of signals and systems, and analogue IC design. A range of specialist one-day seminars will also be provided, including loudspeaker design, surround sound systems, multimedia, valve amp design and much more, and practical work will include a technical article, teamwork, and a hardware-, software- or theoretically-based research project.

A Postgraduate Courses Admissions Secretary, Dept of Electronic Systems Engineering, University of Essex, Wivenhoe Park, Colchester CO4 3SU.

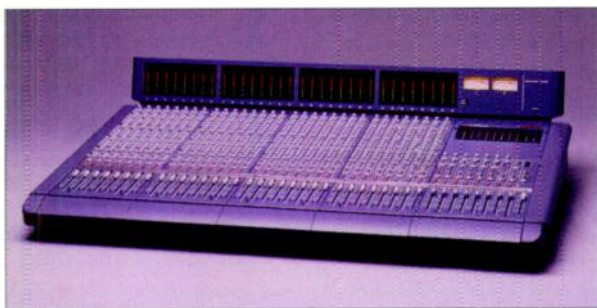
T 01206 872419.

F 01206 872900.

E esemsc@essex.ac.uk

W <http://esewww.essex.ac.uk/pg-courses.html>

Tascam: better, stronger, faster



Two new products from Tascam appear at opposite ends of the recording market, yet both are more in the way of enhanced, relaunched versions of established products than completely new designs. For the serious project studio owner, the M2600 MkII 8-buss desk improves upon the original 2600 (reviewed in *SOS* August 1994) by adding switchable +4dB/-10dB balanced multitrack ins and outs, refined trim control ranges and op-amp designs (for even lower noise performance), new channel inserts, and a choice of three optional meter units with high-intensity bargraphs for faster, more accurate level reading. The M2600 MkII is available in 16-, 24- or 32-input versions, with dual-path design



doubling the number of inputs on mixdown. The desk is also equipped with two stereo and four mono aux sends with six stereo returns.

Also more of an updated model than a totally new machine, the 424 MkII Portastudio has been enhanced with the addition of sweep mid-range EQ, balanced XLR mic inputs, and auto punch in/out. Other improvements over the original include a new display, plus improved aux sends, metering and sync capabilities.

A TEAC UK Ltd, 5 Marlin House,
The Croxley Centre, Watford,
Herts WD1 8YA.

T 01923 819630.

F 01923 236290.

microphone corner



JHS: LOOK PA, NO WIRES

John Hornby Skewes' Scanner wireless mic system set a new affordable price point for wireless

technology; now the Scanner II adds true diversity operation (which helps eliminate spurious signals, distortion and instability) to the Scanner specification for a total system price of just £299.

The Scanner II consists of a VHF hi-band, fixed-frequency, dual-diversity receiver with tone-squelch muting circuitry, plus a hand-held mic transmitter with Audio Technica capsule. The original Scanner is still available, providing the same facilities in a non-diversity receiver for the lower price of £199. Both systems are available on the following frequencies: 173.8, 174.1, 174.5, 174.8 and 175MHz. They're DTI-approved, and JHS have also just announced that both systems have been tested to and are compliant with EMC regulations for Radiocommunication Transmission Equipment, as is the Scanner L1 Lavalier non-diversity model (£229).

A John Hornby Skewes & Co Ltd, Salem House,
Parkinson Approach, Garforth, Leeds LS25 2HR.

T 0113 286 5381.

F 0113 286 8515.

T-SERIES: SHURE THING

Shure's new series of wireless microphone systems, launched at the Frankfurt music fair, are almost £100 cheaper than their predecessors, making a Shure wireless system more affordable than ever before.

Prices for the T-series start at £305 for single-aerial models and £411 for diversity systems. The range consists of:

- The Vocal Artist, available with either the SM58 or BG 3.0 mic head.
- The Presenter, a belt-back transmitter which comes complete with the Shure WL93 Lavalier mic.
- The Headset belt-pack system, which comes with a Shure WH10 head-worn mic.
- The Guitarist, a belt-pack system with jack lead.

A HW International,
167-171 Willoughby Lane,
London N17 0SB.

T 0181 808 2222.

F 0181 808 5599.



You're SO square (baby I don't care)

The *Sound Cube* from Best Service of Germany is a 10-CD set of mixed-mode CD-ROMs containing a wide variety of .WAV and AIFF samples a med at multimedia

developers and desktop musicians alike. Available together for £89.95, or singly for £12.95 each, the disks' titles say it all. The list includes: *Dance Instruments*, *Orchestra and Classic*, *Voice Spectral*, *World FX* (three disks), *Crash Boom Zap*, *Sound Tracks*, *Ethnic Journey*, and *Rave FX*.

A Time & Space, PO Box 306,
Berkhamsted, Herts HP4 3EP.

T 01442 870681.

F 01442 877266.

Paranormal EQ



It's uncanny. The precision and sheer musicality of Ghost's EQ will take your breath away.

Drawing on 22 years of Soundcraft experience, Ghost's new EQ is perfectly in tune with today's music.

Two fully parametric, overlapping mid bands with shelving high and low filters redefine the classic British EQ.

But there's much more.

Each channel strip benefits from its own dedicated circuit board and supports both the main input plus a mix B path



for tape or other input signals.

Ghost's flexibility

and fidelity are staggering.

The signal path quiet, true and uncompromised. And the automated mutes, just part of



gain to noise performance than you'd expect on consoles costing many times more.



Ghost's comprehensive machine control and MIDI implementation,

don't so much cut, as fade very quickly. There are no thumps and no clicks.

You'll hear nothing untoward from ProMic either, Ghost's microphone preamplifier boasts a better

We could go on, but to appreciate fully the ergonomic and audio integrity of Ghost you need to see and hear one in the flesh.

So call +44 (0)1707 665000 to find out more.



Soundcraft
Ghost

A Harman International Company

A new Synthesizer Club is being formed in the Bristol area. The aim is to bring together people with a common interest in creating electronic music (of the traditional Tangerine Dream/Vangelis type rather than current dance). Activities will include concerts, technical discussions, help on using synths, sequencing and recording, playing techniques, live performance. One of the club's objectives is to give electronic music exposure through concerts and recording, and a new record label is projected. A regular newsletter will be produced, and there will be a monthly meeting for members.

A The Bristol Synthesizer Club, PO Box 1414, Mangotsfield, Bristol BS17 3PZ.
T Les Bird 0117 951 5937 (eves); Andy Horrell 0117 956 1855 (days); David Hughes 01633 485927 (eves).

This month sees the launch of new company Sound Solutions, specialising in hi-tech music supplies such as sample CDs, soundcards and software. They will be offering samples from the *Creative Essentials* sample CD series on their web page; the page will be updated each week with two new samples. Also on offer will be samples from *High Wings*, designed for AWE 32 users, in .WAV format. A price list will also feature on the web site, as well as news of product releases and full details of samples available for download. Enquiries about items not listed are welcomed.

T 01403 732606.
E sound.solutions@dial.pipex.com
W http://dspace.dial.pipex.com/sound.solutions/

JBL take it on the road

The TR series of sound reinforcement cabinets from JBL have been designed to offer high quality and rugged build with an affordable price tag. JBL's proprietary protection circuitry — SonicGuard — is also new for this entry-level market; this feature limits power to the speaker under severe drive conditions and protects against thermal stress and sharp transients.

The four new cabinets are as follows:

- TR105 (£799 including VAT): a 225W stage monitor with horizontal or pole-mounting options.
- TR125 (£749 including VAT): a 225W loudspeaker.
- TR126 (£859 including VAT): a 225W loudspeaker with a flared cabinet for improved low frequency response.
- TR225 (£1049 including VAT): a 450W loudspeaker



incorporating two LF drivers and improved crossover design.

A Harman Audio, Unit 2, Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts WD6 5PZ.
T 0181 207 5050.
F 0181 207 4572.

musicians wanted!

WIN A RECORD CONTRACT

UK independent dance label Chemical Honey are on the lookout for demos from artists involved in all areas of dance music, including techno, leftfield, jungle, drum & bass/breakbeat and experimental. To add a little more spice to the proceedings, the artist who sends the best demo the company receive will be given the opportunity to professionally master their tracks and sign a recording contract with the label. In case you're wondering what kind of people you might be signing with if you were lucky enough to win, the label philosophy is "to challenge the boundaries of currently accepted forms of music and provide its artists with the security and resources to be freely innovative and forward thinking."

Chemical Honey are currently enjoying success with artists The Mad Dog Reflex and Carbon Unit, and are being very well received by the press and DJs alike. They're waiting for your demos...

A Chemical Honey Records, The Little House, Elyngye Road, London SW1 2HP.

SUS MUSIC SEARCH FOR TALENT

Producer David Yorath's production company SUS Music is also looking for some help in locating new talent. They've launched a search for new artists to form the basis of projects for 1996. Having had success producing artists from overseas, David, who owns the well-known Surrey Sound professional studio, now wants to make a dent in the home market, and is looking for demos from you. He doesn't mention what style, so presumably is open to whatever is out there. What are you waiting for? Tapes or requests for further info, by post only please, should be sent to the address below.

A David Yorath, Surrey Sound Studios, 70 Kingston Road, Leatherhead, Surrey.



Speedy from CD TEAC

TEAC's new CD58E (£169) is an 8x CD-ROM drive that features 110ms seek time and 1200kB/second data transfer rate. It supports all standard CD-ROM formats, and is fully compatible with the following formats: Video CD, multi-session Kodak Photo CD, CD-ROM Mode 1, Mode 2, XA Ready, CDI and CD Plus. The drive also meets all specifications of the newly-formed MPC Level 3 standard and supports audio CD. The drive will also be available in a SCSI version, as the CD58S.

Also new is the CDR50S (£999 for internal kit, £949 for bare drive). This is a CD-Recordable drive with quad-speed read/write abilities. The drive features an average access time of 220ms, a 1Mb buffer, and high-speed SCSI-2 interface. The 4x performance enables the drive to process 650Mb of data in 15 minutes, and read all CD-ROM formats at quad speed.

A TEAC UK Ltd, Data Storage Division, 5 Marlin House, The Croxley Centre, Watford, Herts WD1 8YA.
T 01923 225235.
F 01923 236290.

XG

Control Freak

Get to grips with the staggering new CS1x Control
Synth from Yamaha.

Just £599 MRP inc. VAT

Call 01908 369269 to find out more.

YAMAHA

CS1x
CONTROL SYNTHESIZER

Yamaha-Kemble Music (UK) Ltd. Pro Music Division



shape of things
to come

Hard cards and soft synths from Yamaha



And now for something truly summery: the builders of the world's largest snow castle, at Kemi in Finnish Lapland — as recognised by the Guinness Book of Records — used a Spirit Folio Lite to mix the music and announcements within the large ice arena. Over 400 metres of ice walls and 200 ice sculptures surrounded the mixer, which performed "perfectly". The event was a joint project between Kemi and UNICEF, which is celebrating its 50th anniversary this year.

T 01707 665000.

Calum Malcolm, Edinburgh-based producer of The Blue Nile, Runrig and Simple Minds, has recently bought a pair of Tannoy AMSB active nearfield monitors for use as part of his mobile recording system. Calum notes: "They are small and light, and sound so natural." The mobile setup allows Calum to turn almost any location, from theatres to country houses, into an effective recording environment.

T 01844 261896.



The first release on Tangerine Dream's own TDI record label is a collection of club-friendly dancefloor remixes of classic TD material. *The Dream Mixes* is "a double CD at a single price", according to UK PR and Marketing company Frontline. Contact Tim on the number below for more details.

T 0181 659 3202.

F 0191 512 1104.

New from Yamaha Media Technology is the SW60XG, the first ISA-bus card from Yamaha to feature their acclaimed XG (Extended General MIDI) sound set. The card features no less than 737 instrument samples, plus 21 drum kits, three independent 24-bit effects processors, and an 18-bit output stage. It's GS/GM- and XG-compatible, naturally, and runs well, according to Yamaha, under both Windows 95 and Windows 3.1. Installation takes only a few seconds, as no IRQ or DMA channel is used. The SW60XG package will include an as-yet unnamed but "world leading" sequencer program, and comprehensive editing software. Recommended retail price is £152.

A fascinating product called the *SSGM Soft Synthesizer* is also on the way from Media Technology. This new software-only synthesizer apparently contains the essence of a professional PC soundcard, and is supplied on a disk. According to Yamaha, users will be able to use the synth to play back their favourite songs "with stunning clarity and accuracy"; they see software synthesis as representing the "long-term future of computer desktop sound", and in keeping with this philosophy, updates to the *SSGM* will be available on the Internet for a nominal cost, as well as through local high street stores. There's no retail price announced as yet, and little in the way of product details, but we'll bring you more on this as soon as we have it.

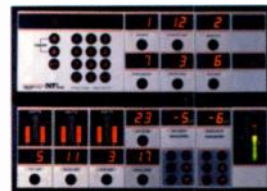
A Yamaha Media Technology,
Yamaha-Kemble Music (UK) Ltd,
Sherbourne Drive, Tilbrook,
Milton Keynes MK7 8BL.

T 01908 366700.

F 01908 368872.

turnkey

If you want
to **look** at
equipment
we'll send
you some
brochures...



If you'd prefer to **listen** and evaluate a wide range of products by strict A/B comparison there is currently only one option.

Turnkey's revamped and enlarged demo facilities feature what we believe to be the world's largest digital comparator systems for pro audio* and the only one of its type in the U.K.

Over 70 effects processors are available for instantaneous A/B via relay switching, eliminating the repatching time which makes good comparisons so difficult. 16 pairs of studio monitors, 10 power amps, 16 mixing consoles and around 30 sources and recorders from DATs, CDs, HDRs and Multitracks are on the same matrix so you can instantly configure complete systems.

Take 8 bus consoles - hundreds are bought each year on recommendation. Bearing in mind the sums involved it's hard to believe that the opportunity to properly compare the various brands for EQ and noise has not previously been offered.

We've taken the same innovative approach to demonstrating all our products from CD Rom samples to analog synthesizers.

Most dealers will tell you which products best suit your needs. Only one can show you.



One side of the switcher-equipped recording room.



Compare 6 mics. by recording simultaneously to ADAT.



Pro-Tools III and Soundcraft DC2020 in Studio 1.



Huge range across Mac, PC and Acorn platforms.

* The leading manufacturer of this equipment tells us that the Turnkey systems are the largest ever supplied worldwide.

GENELEC

the all in one monitoring solution



1030A



1032A

Genelec has become the leading name in Studio Monitoring, and with good reason. Their packaging of speaker, amp and crossover in one box not only makes them affordable, but means that all the components are perfectly matched, to make efficient and fabulous sounding monitors.

At Turnkey (one of only a handful of dealers nationwide) we have all the range that would fit in to our studio on permanent demonstration (and in stock!) and demos of larger pairs are easily arranged. Audition some Genelecs today and we guarantee you'll be impressed - why compromise on monitoring?

- Metal dome speakers
- Active bi-amplified design
- Electronic crossover and protection circuitry
- Built-in bass roll-off, treble and bass tilt controls
- Superb frequency response

A recent addition to the range, the 1092A active subwoofer turns any of the smaller Genelecs into a full-range monitoring system, with frequency response down to 35Hz.



1030a
£1249
INCLUDING
FREE
CABLES AND
MOUNTING BLOCKS

1031a
£2199
INCLUDING
FREE
CABLES AND
MOUNTING BLOCKS

1032a
£2799
INCLUDING
FREE
CABLES AND
MOUNTING BLOCKS

1092a
£1299
INCLUDING
FREE
CABLES AND
EAR PLUGS!



digidesign

New ProTools III software options

- ProTools III Package**
- 7100/80 8/350 clw keyboard
 - 17" MultiSync Display
 - ProTools Core & 882 Interface
 - 2Gbyte Barracuda Hard Disk

PowerMix™ allows you to use the ProTools software on your PowerPC with no additional hardware or with an AudioMedia II and Session 8 system.

BUNDLE PRICE
£9275
INCLUDING
INSTALLATION

Supports the full range of DSP plug-ins.

Audio Media III



A new PCI card giving you 2 channels simultaneous record and 8 tracks of simultaneous playback. Comes with industry standard Sound Designer II software which supports DSP plug-ins.

- Audio Media Package**
- 7100/80 8/350 clw Kbd.
 - 14" Performa + Display
 - Audio Media II + Sound Designer
 - 1 Gbyte AV Hard Disk

BUNDLE PRICE
£3400
INCLUDING
INSTALLATION

ProTools Project



Designed to provide ProTools functionality at an affordable price the Pro Tools software and Project Audio Card gives 8 tracks of simultaneous record/playback and either analogue or digital i/o.

- Session 8 Package**
- 7100/80 16/350 clw Kbd.
 - 15" MultiSync Display
 - Session 8 Core & 882 Interface
 - 1 Gbyte Hard Disk

BUNDLE PRICE
£5050
INCLUDING
INSTALLATION

YAMAHA



Yamaha 02R Digital Console

The fully digital 40 input 8 bus console with total automation and moving faders. 4 band parametric eq and dynamics for every input and 2 comprehensive on-board fx processors with a range of reverbs, delays and other standard fx. Optional interface cards

BUNDLE AT
£8999
INCLUDING
FREE
HIGH SPEED
ADAT & DIF

allow full digital connection of ADAT, T-DIF and AES/EBU formats for integration of MTR and h

CALL FOR CASH PRICE

waldorf

Waldorf Wave



We now offer a new custom range of Wave synthesizers with 76-note keyboards in four colour options - standard blue, red (as shown), Sahara and black. Totally unique sound.

EXCLUSIVE FROM
£6300
CALL FOR DETAILS

JOEMEEK

COOK UP YOUR SIGNAL WITH JOEMEEK!



- All Discrete Electronics
- Ultra Fat Sound
- Easy to Set Up
- Bright Green Case!

Legendary sixties producer Joe Meek was often asked the secret of his fantastic vocal sound. It was in fact a custom made 'black box' of electronics, whose contents he would not reveal during his life. Now JOEMEEK bring his designs to life, and with knobs on!

In addition to the compressor and ultra high headroom mic amp, controls like Drive, Enhance and Q make these processors the hottest way to get your signal to tape or disc. All discreet modern components mean that superb sound quality is ensured throughout.

The range currently consists of three models: the entry level Pro Channel, mid range Voice Channel, and topped by the JOEMEEK Compressor, for some of the best compression money can buy. Check one out today!



PRO CHANNEL
£299
 INCLUDING FREE CABLES

VOICE CHANNEL
£599
 INCLUDING FREE CABLES

COMPRESSOR
£1499
 INCLUDING FREE CABLES

Macintosh

MIDI Bundles

While stocks last we are offering Apple's Powerful Performa CPU with a MIDI sequencer of your choice - Steinberg Cubase, E-Magic Logic or Opcode Vision. Comes with 1-in, 3-out MIDI interface.

BUNDLE PRICE
£1399
 INCLUDING SOFTWARE

Performa 630 MIDI Package:

- Performa 630 8/350CD clw kb4.
- 14" Colour Display
- MIDI Sequencer + Interface
- ClarisWorks Software

* CPU Apple 8 stock - full warranty

SONY

Turnkey bring you the first stocks of Sony's brand new portable, the TCD-D8. Sturdily built with a back-lit display, the unit features 48kHz and 44.1 kHz analog and digital recording.

TCD-D8

NEW PRODUCT
£599
 NEW BOXED

No other portable is available under £1499 - initial supplies will be very limited, phone now to reserve yours. The ultimate Walkman!

SyQuest & IOMEGA

Removable disk drives

There was a time when hard disks were a luxury for sampler owners, but with the advent of the ultra cheap Iomega Zip and Jaz drives, and the soon to be released Syquest EZ 135 drive, this has become a thing of the past. For under £200 the Zip drive stores 100Mb (94Mb formatted) on each cartridge and the EZ drive 135Mb (124Mb formatted). If you want greater capacity the Jaz's 1Gbyte will suit any large fx library and is ideal for many dedicated hard disk audio systems like the Emu Darwin or Akai DR series.

ZIP

JAZ

EZ-135

IOMEGA ZIP
£199
 INC DISK & SCSI CABLE

IOMEGA JAZ
£599
 INC DISK & SCSI CABLE

SYQUEST EZ-135
£219
 INC DISK & SCSI CABLE

turnkey **Focusrite**

PRODUCT **Green range**

Focusrite

Focusrite have long represented the pinnacle of audio achievement, but sadly their products have always been out of reach for most of us. Now, specifically with the high quality project studio in mind, they have designed the Green range of processors. The first 3 products are the Dual Mic Pre, the Focus 4 band EQ with filters, and the Voicebox - this combines a mic/instrument preamp, compressor, de-esser and parametric EQ in a single unit - the ultimate signal path for digital recording! All 3 are on permanent demo at Turnkey.

DUAL MIC PRE
£819
 CALL FOR DEMONSTRATION

FOCUS EQ
£929
 CALL FOR DEMONSTRATION

VOICEBOX
£989
 CALL FOR DEMONSTRATION

Fostex

modular hard disk recording comes of age



If 8 tracks aren't enough for you - don't worry! Multiple D80's can be linked together to provide as many tracks as you want, and they can even be slaved to a DMT8 to expand an existing system!

The DMT8 has revolutionised the 8 track recording market, providing an all in one solution to hard disk recording. Now the introduction of the D80 shows that Fostex have only just started!

The D80 is a 3U rackmount unit, with 8 individual inouts and outputs, a removable front panel which doubles as a remote and meterbridge, and a removable 850 meg hard drive. It slaves to Midi Machine Control, as well as being able to act as a master, all with no track loss, and has SPDIF digital ins and outs to allow backup to a standard DAT machine and direct digital recording. Easy to use editing allows cut, copy and repeat pasting across multiple tracks. Surely this is the replacement for 8 track tape machines that everyone has been waiting for!

- 8 separate analogue inputs and outputs
- SPDIF digital I/O for back-up and digital recording
- Up to 40 minutes of full 8 track recording
- Multiple units can be linked for unlimited tracks
- Uses removable caddy IDE drives

NEW PRODUCT
£1499
INCLUDING
FREE
2x 8WAY LOOMS

RRP £3526
£2999
INCLUDING
SPIRIT
STUDIO 24
& LOOMS

RRP £5025
£4399
16 TRK. SETUP
INCLUDING
SPIRIT
STUDIO 24

turnkey
PRODUCT
Tel: 0171 240 4036
Fax: 0171 497 0690

Exclusive!

adat



Fostex CX8 New High Speed ADAT

The CX8 is built for Fostex by Alesis and is basically exactly the same machine as the new high speed ADAT XT. The only differences are the colour and the D-Sub (rather than EDAC) connector on the rear panel.

The new design features a die-cast chassis and as completely redesigned transport, which rewinds and fast-forwards four times as quickly as the old machines. Also BRC style editing can be performed from the front panel with two machines.

Turnkey are the exclusive U.K. suppliers of this machine, and are therefore able to bring it to you at an unbeatable price.

Why pay more?

- Totally interchangeable with ADAT XT
- New 4 times speed transport design
- Absolutely unbeatable price

RRP £2777
£2195
PACKAGE
DEALS
AVAILABLE

BUNDLE PRICE
£1799
INC 1 GIG
FIXED DRIVE

BUNDLE PRICE
£1999
INC 1 GIG
JAZ DRIVE

BUNDLE PRICE
£2149
INC 1 GIG &
FX BOARD

Roland VS880 Digital Workstation

Roland



It's an 8 track recorder (each with an additional 8 virtual tracks) and a 14ch digital mixer complete with automation. An additional fx board can be added for under £350 giving RSS and SE70 type effects. The VS880 supports an internal IDE but we recommend an external SCSI drive for better performance and value.

turnkey
PRODUCT
Tel: 0171 240 4036
Fax: 0171 497 0690

NEW Indigo Range

TL Audio



In the production of modern valve audio equipment, the success of TLA equipment has been unrivalled, from the best selling compressor (shown here), to the full blown valve mixer. For those of you who don't quite need the full functionality of the existing range, the new 1U high Indigo range has been designed specifically for your needs. Superb warm and fat valve signal processors at an affordable price. Models include a compressor, EQ, mic amp and overdrive unit. Entire range on demo at Turnkey for direct A/B comparison.

PRICES FROM
£699
CALL FOR
DETAILS

Steinberg

Cubase For Windows 3.0



Steinberg has made the industry standard sequencer for as long as we can remember, beginning with Pro 24 on the Atari, and now that dominance has been continued on the PC platform.

Not satisfied with this success, Steinberg have upgraded all versions for the PC to version 3.0. It's host of new features include hard disc recording in all versions (the number of tracks limited only by the speed of your PC), pitch shift & time stretch, and on-line help.

Of course, Cubase's other great features like Groove Quantise and the MIDI Mixer have all been retained. All versions are in stock now!

- **Hard Disk recording on all versions**
- **Industry stand sequencer**
- **On-line help**



Cubasis & Cubasis Audio

Not ready to jump in at the deep end yet? Then Steinberg have created Cubasis especially for you. An entry level version of the program, it includes 16 tracks of the features that have made Cubase famous: the industry standard arrange page, simple cut and paste editing and much more. Cubasis Audio even integrates hard disk recording with an appropriate soundcard.

CUBASE 3.0
£329
 INCLUDING **FREE**
 MIDI INTERFACE

CUBASE SCORE 3.0
£449
 INCLUDING **FREE**
 MIDI INTERFACE

CUBASE AUDIO XT 3.0
£1299
 INCLUDING **FREE**
 AUDIOMEDIA 3 PCI

CUBASIS
£149
 INC. FREE MIDI INTERFACE

CUBASIS AUDIO
£249
 INC. FREE MIDI INTERFACE

CUBASE

JVI080 Super JV Module

In the same way as the S1000 became the industry standard sampler,

Roland's JVI080 has become the industry standard synth module. It's not hard to see the reason why - straightforward operation combined with top flight sound quality and a huge range of useable sounds.

But expandability of the machine is where it really comes into it's own. There are over 10 different expansion boards which can be fitted (up to 4 at once), each one with as much ROM as the original machine, covering sounds from Vintage to Orchestral and Dance to World.

RRP £1499
£979
 NEW BOXED

RRP £1468
£1199
 WITH ANY EXPANSION BOARD

At Turnkey we have the full range in stock, as well as an unbeatable price on the machine itself. Check one out today!



Reno Portable CD-Rom Drive



The Reno CD ROM drive works with nearly all samplers (please check compatibility when ordering) as well as Mac and PC. Most CD ROM drives can play audio CDs, but require special software on a computer to do so. The Reno though has integral buttons for playback and track search etc, and can even be run off batteries for use as a portable CD player (headphones included). We have managed to secure a quantity of these at a huge discount - order now while stocks last!

RRP £429
£149
 INC. PHONES & CARRY CASE

Are you making full use of your sampler? There are now a huge range of CD ROM discs stacked full of library available for virtually any sampler on the market. Each disc can hold up to 650 meg (the equivalent of about 500 HD floppies) and what's more, all the patch data has already been programmed!

MC303 Groovebox



The enduring popularity of the TB303, MC202 and TR909 has just refused to go away but increasing

NEW PRODUCT
£549
 NEW BOXED

rarity has meant that secondhand prices have been driven up to ridiculous levels. Roland, the creators of these machines, now bring you the MC303 Groovebox which combines all their classic drum machine sounds, a step time / real time sequencer, 303 'acid' bass sounds complete with front panel filter controls and a whole host of other useable sounds (it's 16 part multi-timbral!). This box is an all in one dance music solution, and believe us, it sounds the business! Initial supplies will be very limited, order now to avoid disappointment!

NEW PRODUCT
£699
 WITH PC200 CONTROLLER KEYBOARD

Steinberg

Cubase VST for PowerMac

Integrated sequencing and hard-disk recording has always been a great idea, but until now you've had to buy expensive extra hardware, or use the Mac's built-in audio. This might have given you 8 tracks or more but with only two outputs, there was no possibility of individual EQ and effects treatment.



Now Cubase VST redefines music on the Mac platform, and sets a completely new standard - not only can you record up to 32 tracks (Processor dependant), but it also has built in realtime effects and EQ. Effects include reverb, chorus, delay, echo and many more, with the plug-in architecture leaving room for huge future developments, and the EQ is fully parametric (up to 128 bands!).



What's even more incredible is that the VST technology is included in every version of Cubase from the standard version at only £329, through Score for those with more sophisticated printing requirements, to Audio XT, for use with digidesign hardware. Call us now for your copy or to book a demo. Bundles with Power Macs also available, please enquire.

- Up to 32 tracks of Hard Disk recording
- Up to 128 bands of EQ
- Built in realtime reverb, delay & chorus etc.
- Pitch shift & time stretch
- Industry standard sequencer
- Ridiculous price!

CUBASE VST
£329
 INCLUDING FREE MIDI INTERFACE

CUBASE SCORE VST
£469
 INCLUDING FREE MIDI INTERFACE

CUBASE AUDIO XT
£699
 INCLUDING FREE MIDI INTERFACE

DrumStation

novation

Someone had to build this eventually! Despite being discontinued for at least 10 years, Roland's TR-808 and TR-909 drum machines have remained indispensable popular classics ever since. Now, Novation bring you those classic sounds with the original editing parameters, and in the convenience of a 1U rack, with MIDI, and 8 outputs. Initial supplies will be limited and demand, high. We have been guaranteed a significant quantity of the first stock available. Call for further details.

RRP £449 NEW PRODUCT

DTC790

Dat Machine

SONY

We have exclusively secured a small supply of the Sony DTC790 to bring you the cheapest full size DAT machine on the market, but this is not at the expense of features: SPDIF coaxial input and optical in and out, digital and analog recording at all three sampling rates (32 kHz, 44.1 kHz, 48 kHz), as well as all the usual ID functions and a full function infra red remote control.

These machines are brand new and boxed with a full twelve month warranty. Another DAT exclusive from Turnkey!

TURNKEY EXCLUSIVE £499 INCLUDING REMOTE

CS1x

YAMAHA

Here's another fantastic addition to this year's slew of equipment specifically designed for dance music. Not only does it look great, it sounds great too! As well as 480 XG format voices and 11 different drum kits, the CS1x also has 128 special performance sounds especially designed for dance and techno music. Front panel knobs allow instant access to crucial editing parameters like the filter, and 2 are assignable to anything you like. Round this off with top quality effects and an arpeggiator, and you have what has to be the best value keyboard of the year!

RRP £599 NEW PRODUCT

Orbit

The Dance Planet

EMU

Emu have taken their wealth of experience in making modules such as the Proteus, Vintage Keys and Morpheus, combined it with the filters from the incredible Emulator 4, and with their usual innovation, come up with the Orbit - especially built for dance music.

The Orbit is stacked full of classic drum sounds, pulsating basses, ambient pads, as well as a huge variety of hits and effects. The inclusion of the E4's 16 different types of 6 pole filters mean that this module has more powerful filtering than any other synth. Finally the 'BEATS MODE' includes a wide selection of loops and grooves, which can have their pitch changed without tempo change and vice-versa, and even their sounds too!

The Orbit is already on demo at Turnkey - audition one today!

NEW PRODUCT £849 INCLUDING FREE CABLES

EMAGIC

LOGIC & LOGIC AUDIO NOW AVAILABLE FOR WINDOWS



For some time now, Emagic's innovative approach to the software sequencer has made it the best selling program on the Macintosh platform. Until recently though, development for PC compatibles has lagged behind, but now Emagic have brought the PC version right up to date, with not only full sequencing functionality, but also the long awaited availability of the Audio Module.

Logic is famed for its timing accuracy, and rightly so - it has a resolution of 960 ppqn, and the tempo is adjustable down to 1/10,000 of a bpm, great for fitting MIDI sequences to sampled loops. The Environment window allows custom development of controllers for any MIDI equipment from a toolbox of user-definable faders, knobs buttons and switches - creating your own editors is a breeze. Of course, descending as it does from the original Notator program, the quality of notation results can be taken for granted.



Finally, with the Audio Module, which can be added at any time (no need to upgrade), you get to use functions like cut and paste editing, groove quantise and the Time Machine on your audio files. Get rid of your tape machine and start recording direct to disc now !

- **Best Selling Mac sequencer now available for PC**
- **960 ppqn Timing Resolution**
- **Audio Module Can Be Added At Any Time**
- **Top Quality Notation Included**

*Prices are for both Windows & Mac platforms

LOGIC
£349*
 INCLUDING
FREE
 MIDI INTERFACE

AUDIO MODULE
£299*
 INCLUDING
FREE
 MIDI INTERFACE

LOGIC AUDIO BUNDLE
£629*
 INCLUDING
FREE
 MIDI INTERFACE



Despite the first digital effects units being developed almost 20 years ago, they have all followed a familiar path ever since, offering a conventional series of effects. The Lexicon Vortex breaks the mould in allowing effects to be morphed between in real time and in the process, creating new and previously unheard of effects. (This actually changes the effect algorithm continuously - it is not a simple cross-fade between effects) This unit is ideal for dance music, and anybody requiring out of the ordinary effects, and its real time nature make it an excellent choice for live performers such as guitarists. Effects are also affected by the input signal, so that dynamics can control various different parameters within an effect algorithm. Tempo can be tapped in to control delay times etc...Typical Lexicon quality can of course be taken for granted. Exclusive bulk purchase makes this huge reduction possible on the end of the line. First come first served!

- **Totally interchangeable with ADAT XT**
- **New 4 times speed transport design**
- **Absolutely unbeatable price**

RRP
£199
 NEW
 PRODUCT



PCM-800

PRO 8 TRACK DIGITAL RECORDER

The definitive statement in 8 track digital machines? The Sony PCM800 is based on Tascam's DA88 but has the added advantages of balanced XLR connections and AES / EBU Buying power makes our offer cheaper than the DA88 ! Limited quantities only available at this price. Buy now before stocks are exhausted!

RRP £5249
£3499
 NEW
 BOXED



PULSE



Waldorf quality at a previously unheard of price! Their first venture into the burgeoning monosynth market has been universally acclaimed, and rightfully so. The Pulse's three oscillators provide some of the fattest sounds around, and its modulation matrix allows a far higher degree of programming complexity than anything else in its range. Add to that the fact that editing any parameter sends out a MIDI controller and you have a fantastic all round performer. On demo and in stock now.

NEW PRODUCT
£599
 NEW
 BOXED

SyQuest EZ135

Removable External SCSI Drive

Where can you store all those long samples and audio files? PAUL WHITE checks out one possible answer.

With the proliferation of 'MIDI plus audio' sequencers, and also the increased use of samplers with large memory capacities, hard drive storage space has become a major issue. Recently, low-cost removable drives have appeared on the market, such as the Iomega Zip and Jaz drives (see the *SOS* review of the Zip drive in last December's issue), and the SyQuest EZ135 reviewed here. The SyQuest EZ135 is of particular interest, because it is fast enough to use for direct-to-disk audio recording, and it also seems the ideal medium for storing samples. Even if most of your samples come from CD-ROM, there will be occasions on which you want to edit the sounds in some way, and then resave them.

THE EZ LIFE

Unlike the early 44Mb and 88Mb SyQuest drives, the EZ135 is smartly styled, affordable and, most importantly, the 135Mb disks are only just over £17 each. A rear panel switch allows easy selection

of the SCSI ID, and a SCSI terminator and lead are supplied. Power comes from an external adaptor — also bundled with the drive — that automatically adapts to the local mains voltage. The only complaint I have here is that it's too easy to insert the PSU plug incorrectly into the drive! Mine wouldn't work until I unplugged it and plugged it back in the right way around. A better mechanical keying system would solve this.

Bundled with the drive is a floppy disk containing the necessary PC installation

the eject lever pops out, so if you want to use the disk next session, you have to remember to push the lever back in.

When connected to an Akai S2000 sampler, the disks can be formatted directly from the sampler, and again, no problems were experienced. The drive seems every bit as fast as a typical fixed hard drive — except you don't get fan noise. The disk cartridge packaging is also rather nice; as well as being very protective, there's also a transparent outer sleeve beneath which you can fix your own label.

At the price, the Syquest EZ135 is a bargain that's hard to resist — and, incidentally, I didn't! It may not have the



software, while the Mac equivalent comes on the included cartridge. The vital bit for Mac users is *Silver Lining Lite*, which enables your computer to mount the disk; it can also be used for formatting, though new 3.5-inch disk cartridges (which have a mechanical write-protect switch) come ready-formatted and with duplicates of all the original software on them. The software includes a limited copy of *Virtual Disk*, which allows you to keep a catalogue of your removable disk contents on your internal hard drive, plus several games that seem to involve rampaging through blood-splattered corridors.

IN USE

The drive worked just like any other hard drive with my ProTools II system and with Emagic's *Logic Audio*, but best of all, it proved to be really quiet in use; previous SyQuests I've owned have been like sharing the studio with a dishwasher! On shutting down the computer, the disk unmounts and

capacity for album editing or long multitracking sessions, but when you just want to add the odd guitar solo and vocal line to a MIDI composition, it's just the ticket. What's more, the disks are affordable enough to archive at around twice the price of a DAT tape.

SOS

pros & cons

EZ135 EXTERNAL SCSI DRIVE £194

pros

- Quiet and fast.
- Inexpensive drive and media.
- Works with Macs, samplers and IBM SCSI systems.

cons

- Power supply plug is too easy to connect in the wrong orientation.

summary

If you have a SCSI sampler or a hard disk recording system, you'll have to look a long way for a reason not to buy one of these drives.

SOUND ON SOUND

E EZ135 external SCSI drive, £193.88 (plus £9.40 UK carriage costs). This price includes a SCSI terminator, Mac and PC software, and a 25-50 pin SCSI cable; 135Mb cartridges cost £17.04 (plus £1.76 UK postage). All prices include VAT.

A SyQuest Technology Ltd, Spitfire House, Edinburgh Airport Cargo Village, Turnhouse Road, Edinburgh EH12 0AL.

T 0131 339 2022.
Technical Support Line
0131 338 0102.

F 0131 339 6765.

info

Fatar Studio

MIDI Master Keyboard

This Italian master keyboard may be completely dumb soundwise, but it's pretty clever in other departments.

DEREK JOHNSON & DEBBIE POYSER just love being in control.

Fatar master keyboards have been widely available in the UK for three or four years now, and seem to be doing well with the support of distributors Arbiter. At the top of the current range is the 88-note Studio 2001, with four independent MIDI outputs, eight keyboard zones and six controllers; next in line is the Studio 1100 (see *SOS* review, December 1994), also featuring 88 notes and a slightly curtailed spec. The latest entry in Fatar's Studio series takes the 1100 as its starting point, and places it in a more compact 76-key package — hence the name, Studio 1176.

COVER STORY

The operating surface of the Studio 1176 is

clean and uncluttered: the Pitch Bend and Mod wheels are on the left above the keyboard, to save space, and the editing controls and 3-character LED display are in the middle. There are two sliders next to the display: one is an overall volume control, and the other an assignable slider that does duty as a data entry control when editing. Several black keys on the keyboard also double as a numeric keypad, for entering parameter values and Program Change numbers directly. A recessed back panel hides the connections — in addition to the MIDI In and two parallel MIDI Outs, there's a sustain pedal socket, plus an assignable control pedal socket. There's also a mini-jack power socket, since power is supplied by a 9V external supply.

FATAR FACTS

The 1176's keyboard is velocity- and aftertouch-sensitive and can be split into four Zones, which can be layered (up to four sounds playing at the same time) or given separate key ranges (so, for example, you could have a bass patch assigned to the lowest zone, a pad sound to the next, a piano to the next, and so on). Each Zone can have its own MIDI channel, Program Change number including Bank Select (to select a patch on your sound source),

pros & cons

FATAR STUDIO 1176 £750

pros

- Excellent keyboard feel.
- Good MIDI control options.
- Good value for money.

cons

- Only one MIDI Out.
- Limited display.
- Only a single control pedal input.

summary

Sufficient MIDI control options for most people, coupled with 76 notes of excellent keyboard quality, at about the right price.

SOUND ON SOUND

volume setting, and transposition value. The above parameters are set and edited using the four buttons labelled Preset/Function, and the four labelled Zones. It's easy to do: select one of the four Zones with its button, press one of the Function buttons, and you're in edit mode. Now cycle through the three parameters available under each of the Function buttons, using the Control/Data slider to alter values, which are shown in the 3-digit LED display. When you've finished editing, your settings are automatically saved as a so-called Preset. There are 32 of these memory locations,



1176

and when these are full, the memory can be dumped to an external MIDI storage device.

While creating a Preset, you can also define whether each Zone will be able to transmit aftertouch, pitch bend and mod wheel information, and set the keyboard's velocity response in each Zone — so you could have a different keyboard 'feel' for a piano patch than for a string pad, for example. Velocity customisation can also allow you to create a velocity 'crossfade' between two layered Zones. In addition, the Control/Data slider and the Control Pedal input can both be assigned to any MIDI Continuous Controller between 0 and 120 — on a per-Zone basis, naturally.

Usefully, there are one or two things you can do with Zones without even having to go into edit mode. If you no longer want a Zone you've set, you can mute it simply by pressing its Zone button (active Zones are indicated by a yellow LED), and if you want to change the sound

ZONE RANGER: EDITABLE FUNCTIONS FOR EACH ZONE

The following functions are available under the four Preset/Function buttons on the front panel:

- **LOW KEY/HIGH KEY:** define the key range of a Zone; key ranges for two or more Zones can overlap.
- **PROGRAM:** selects the sound to be played on the connected MIDI sound source for each Zone; includes Bank Select.
- **CHANNEL:** sets the MIDI channel over which a given Zone transmits data.
- **WHEELS:** turns the Pitch Bend and Mod wheels on or off, per Zone.

- **VOLUME:** sets the volume level of the selected Zone
- **VELOCITY:** allows you to customise the keyboard velocity response for each Zone.
- **AFTERTOUCH:** turns aftertouch on or off for each Zone.
- **TRANPOSE:** sets the transpose value (+/-24 semitones) for each Zone.
- **CSL:** assigns the control slider to any MIDI Continuous Controller between 0 and 120.
- **PEDAL:** as above, for the control pedal.

assigned to a Zone, pressing the Zone button and keying in a Program Change number selects a new patch on the attached MIDI sound source.

ACTION, MAN

Fatar keyboards feature some of the best simulations of piano feel around. The company's 'patented hammer action' is once again used on the Studio 1176, and the result is an eminently-playable weighted keyboard. For those reared on plastic synth keyboards, an action such as the Studio 1176's will probably be hard work until you get used to it. For pianists moving in the opposite direction, there should be no such problems.

Other controller keyboards, including

Fatar's own 2001, offer more Zones, more Controllers, more keys, and more independent MIDI outputs — but they also cost more. The Studio 1176 is a straight-ahead, high-quality MIDI master keyboard, with convincing piano action and a sensible level of MIDI control, at a reasonable price. If that's what you're after, your search may be over.

SOS

£ £749.95 inc VAT.
A Arbiter Group plc, Wilberforce
Road, London NW9 6AX.
T 0181 202 1199.
F 0181 202 7076.

info

Winners in *any* event

Just part of the 800
strong A-T team of
multi-discipline
microphones performing

**at the 1996
Atlanta Olympic
Games**

AT4033

AT4041

AT4050



audio-technica
The Complete Microphone Solution

Technica House, Royal London Industrial Estate,
Old Lane, Leeds LS11 8AG
Tel: 0113 277 1441 Fax: 0113 270 4836

WRH

Spirit Folio SX

20-Input Mic/Line Mixer

First observed by the SOS team at the bottom of an aquarium at this year's Frankfurt Musik Messe, Spirit by Soundcraft's new Folio SX mixer has now arrived. PAUL WHITE dries it off and removes the goldfish droppings from the insert points...

The no-nonsense Folio SX has an external power supply so you can make it work, there are sockets so you can connect things to it and there are controls — so you can control things [been watching that Toyota advert again, have you? — Assistant Ed]. There's no driver's airbag, or air conditioning, but you do get 12 fully-functional Mic/Line channels, two comprehensive stereo channels, and a two further general-purpose stereo inputs with a choice of Main or Sub mix buss routing. Add these 20 inputs to lots of powerful EQ, a generous aux send system, and a convenient carrying handle (which also

serves to prop the mixer up at a jaunty angle when in use), and you have a mixer quite obviously designed to muscle in on the Mackie 1402VLZ market (check out the review of the Mackie in last month's SOS).

CONTROLS AND FEATURES

Because of its topography, the Folio SX is well suited to simple multitracking, live recording, PA or keyboard use. All the channels are controlled by full-length faders, and there's global phantom power for capacitor mics, plus phono inputs for a

output to be set pre- or post-fader. Post-fader is the default option, but you can switch to pre-fade if you prefer.

There are three aux sends in all; Aux 1 is fixed pre-fade, and Aux 3 is fixed post-fade. Aux 2 may be switched to pre- or post-fade operation via a master switch, and all three sends have master level controls. The 3-band EQ fitted to all 12 mono channels has a sweep mid control providing up to 15dB of cut or boost over the range 240Hz to 6kHz, plus HF and LF shelving controls operating at 12kHz and 60Hz. There's no

CONNECTIONS

The XLR mic inputs, TRS jack line inputs, aux sends and main outputs are all electronically balanced, although unbalanced connections can also be used with the right leads. The Direct channel outputs employ a pseudo-balancing system known as ground compensation, whereas the phono connections are obviously unbalanced.

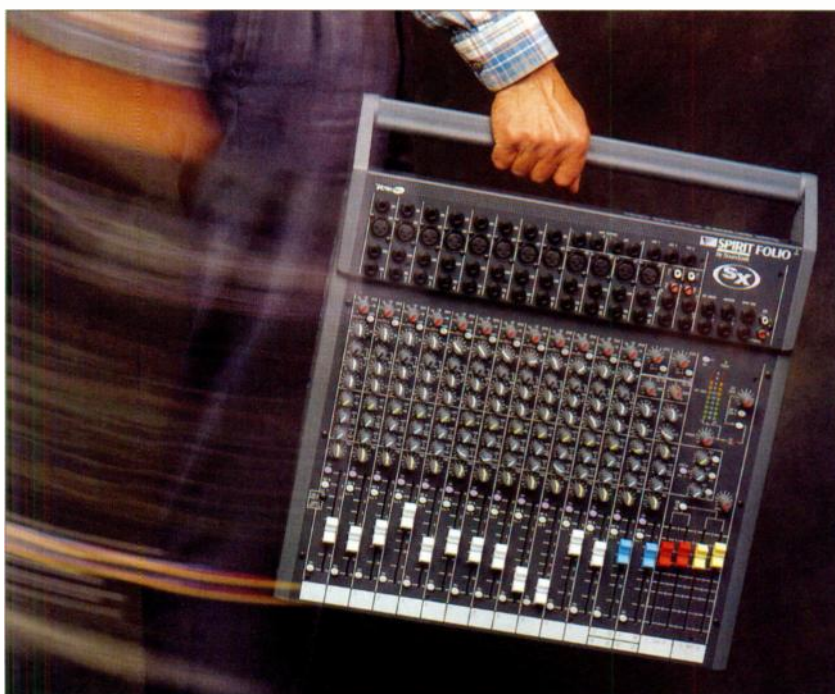
A rather light-duty, moulded non-locking 3-pin socket connects the power supply to the rear panel of the mixer — all other connections, including the Phones output, are at the top of the front panel. The power lead does have a moulded locking lever, but this doesn't seem to work — you can still pull the power cable out quite easily. The headphone output should be used with phones of a 200Ω impedance or greater.

2-track recorder such as a cassette deck or DAT machine. Each mic/line input has a switchable 100Hz, 18dB/octave low-cut filter, a gain Sensitivity control, and a TRS jack insert point. Channels 1 to 8 are fitted with ground-compensated (pseudo-balanced) direct output jacks. Recessed switches next to the fader enable the direct

EQ bypass, but the controls are centre-detented. Routing comprises a conventional Pan control (or Balance on the Stereo channels) and Mix/Sub switching, which sends the channel signal either to the Main stereo buss or to the Sub stereo buss. Separate channel On buttons are provided in a fetching shade of lilac, and ample scribe space is provided below the fader. All input channels have PFL buttons, aside from the phono inputs (channels 13, 14 and 17, 18).

The aux sends have AFL soloing, and, as usual, the channels input gains can be set up using the PFL buttons and the meters. A master Solo LED indicates when one or more channels are solo'd, and any solo'd sources are heard in isolation over the Monitor output and the headphones. Plugging in headphones disconnects the Monitor output, which I feel is a trifle restrictive. At any time, the tape input can be monitored by selecting the 2Tk button.

The Stereo channels are similar to the mono channels, except that they have no mic inputs, no insert points, and no mid-band EQ. At the very top of the channel strip are Level controls for the final pair of stereo inputs, which are on phonos, and these may be routed to either the Main or Sub mixes. As these have only level controls and no access to EQ or sends, they are probably best used as effects returns, though they can handle any line-level signal.



pros & cons

SPIRIT FOLIO SX £611

pros

- Sensible range of features.
- Clean sound.
- Clear, well-thought out manual.

cons

- External PSU.
- Using headphones mutes the Monitor output.

summary

A well-specified mixer offering simple 4-buss operation with very few restrictions.

SOUND ON SOUND

MASTER SECTION

Separate fader pairs are used for the Main Mix and Sub Mix output, while the Monitor output and Phones level are set using the same rotary control. A separate level control is provided for the 2-track return. Metering is via simple 10-section peak-reading LED ladders. A Mix/Sub switch swaps the meters and phones output from monitoring the Main mix to monitoring the Sub mix, and for simple subgrouping, the Sub mix can be fed into the Main mix using the Sub to Mix button. Separate insert points are provided for the Main Mix, and there's also a mono, summed output for mono PA applications, governed by a separate rotary control. With the exception of the inserts, direct outputs and phono inputs, all the signal connections are electronically balanced, with a nominal operating level of +4dBu. Status LEDs are fitted adjacent to the 48V Phantom Power switch and a green LED shows when the mixer is powered up. A further red LED shows that one or more channels are solo'd.

OPINIONS

Interestingly, surface-mount technology has been employed in this model to optimise both size and cost, and the performance of the SX is typical of the rest of Spirit by Soundcraft's Folio range. The signal path is quiet, the EQ is positive (and about as

musical as you can get in this price range), and the routing options are adequate to meet a number of different requirements. The dual buss system isn't quite so flexible as true 'something into four into two' routing, but by using both the Sub outs and the Direct channel outputs, multitrack recording is quite possible.

Physically, the console is both compact and light, but it isn't in any way cramped, and the use of full-length faders gives it a very professional feel. The old knob wobble syndrome has clearly been consigned to the past, though some controls are noticeably stiffer than others: perhaps they'll run in with use?

I also like the rather bold colour scheme, which somehow works, unlike some competitors' attempts to be visually distinctive. The manual is worthy of mention too, as it is refreshingly concise

yet very informative, with practical examples of wiring systems for PA, recording and so on. There's also a useful section on cable wiring conventions.

As I've said before, I don't know how long mixer manufacturers can go on exploiting what was originally a niche market for small mixers, but as long as there's a demand, Spirit look set to remain somewhere close to the top of the pile. The SX is a neat addition to the Folio range in all senses of the word.

SOS

£ £611 inc VAT.

▲ Spirit by Soundcraft, Cranborne House, Cranborne Industrial Estate, Cranborne Road, Potters Bar, Herts, EN6 3JN.

T 01707 665000.

F 01707 660482.

Info

dynaudioacoustics®

Monitoring Quality

From The Orb & the Finnish National Opera....



BM5

Introducing the BM Series

It took 15 years, 100 Danes, a few million Kroner and an englishman with attitude to come up with the BM Series. Fortunately it was all worthwhile! We wanted to make a monitor which not only reproduced sound balances accurately but also enabled anyone to hear the difference between good and bad sources. Many low to mid priced systems simply do not reveal the subtle

distortions and resonance's which creep into a multitrack recording because they are hidden by the coloration of the speaker itself.

So how do we do it?

Dynaudio Acoustics has produced monitor systems for some of the worlds finest studios and they have used the same uncompromising engineering standards in the BM Series. High volume cabinet production and the automation of component manufacture has produced massive cost reductions without compromising quality at all. In fact the BM Series could sell for twice the price, but don't worry, that's a job for our competitors.



BM10



BM15

....To The Chemical Brothers & Metallica

Dynaudio Acoustics is distributed in the UK by:
Unity Audio. Tel:01920 822890 Fax: 01920 822892

UNITY AUDIO LTD

Dynaudio Acoustics, Unit 21 Riverside Workshops, 28 Park Street, London SE1 9EQ UK
Tel: +44 (0)171 403 3808 Fax: +44 (0)171 403 0957 Compuserve: 100072,2302

BRIEF SPECIFICATION

| | |
|---|-------------------------------------|
| Mic Input Impedance | 1.8kΩ |
| Line Input | 10kΩ |
| Outputs | 75Ω |
| Headphones | 150mW into 200Ω |
| Frequency Response (any input to any output) | 25Hz to 30kHz within 1dB |
| THD @ 1kHz, (+20dB at all outputs) | 0.006% |
| RMS Noise (16 inputs routed, faders down) | better than 85dBu, 20Hz to 20kHz |
| Overall dimensions | 479 x 511.5 x 80mm |

Shure Beta Series

Dynamic & Back-Electret Microphones

Shure have recently updated and augmented their 7-year old Beta microphone range.

PAUL WHITE assesses the newcomers alongside the rest of the range.

Just like the manufacturers of Coca-Cola and their world-famous 'brain tonic', mic manufacturer Shure have to be very careful of any changes they make to their classic SM58 dynamic mic — otherwise hordes of purists rush to say that it's no longer as good as the original. The dynamic models in the latest Shure Beta range of mics are based on a Neodymium magnetic system which promises a higher output level and an extended frequency response when compared with other dynamic mics, but other than that, Shure seem to have tried their best to keep the family sound intact.

BETAS NOW EVEN BETTER

The Beta series hypercardioid mics were originally launched in 1989, but Shure have recently updated the range by making minor alterations to the design of the Beta 57 and Beta 58 dynamic mics (resulting in the addition of an 'A' to the model number of these two mics). In addition, there are two completely new mics, the Beta 56 drum mic, and the Beta 52 bass drum mic. We received a complete set of Beta series mics for review, which comprises the four above-mentioned mics plus the odd one out, the Beta 87. This differs from the other, dynamic mics in that it is a back-electret capacitor mic intended for hand-held vocal use or studio recording. Cosmetically, all the mics have a family styling with heavy cast bodies finished in metallic blue/grey paint and matt-chromed mesh grilles sporting a light blue trim. All have balanced XLR outputs, supercardioid response patterns, and none are fitted with on/off switches. Soft carry cases and standmounting clips are provided as standard.

pros & cons

SHURE BETA MICS £187/£382

pros

- Tough construction.
- Classic Shure sound.
- A model for virtually every application.

cons

- The Beta 87 capacitor mic may be too insensitive for making quality recordings of quiet acoustic instruments.

summary

A sensibly compact range that covers virtually all live applications and meets a number of studio requirements, especially in the areas of drum miking and instrument amplifier miking.

SOUND ON SOUND

THE BETA 58A & 57A

The equivalent Beta to the classic SM58, the Beta 58A, is exactly the same shape as the regular SM58, the main outward difference being the blue trim and the bluish tinge to the body colour. A pneumatic shockmount is used to minimise handling noise, and the frequency response is designed to suit close-miked vocals, though some engineers also like to use 58s on electric guitars and even drums. With a useful frequency range extending from 50Hz to 16kHz, the mic has a falling bass response below 500Hz to compensate for the proximity bass boost that results when the mic is used up close. The top end features a dual peak presence rise at around 4kHz and 10kHz which helps to produce a sound capable of cutting through a loud backing track. Because all these mics have a supercardioid pattern, they are slightly more sensitive to sounds coming directly from the rear than cardioid mics, so stage monitors are best placed between 60 and 30 degrees off axis.

Almost as famous as the SM58 is the SM57, and this too has its equivalent in the Beta 57A. Designed for miking drums (mainly toms), amplifiers and brass/woodwind, the 57A also holds its own as a vocal mic, making it an excellent choice for somebody needing a high quality all-rounder. The frequency response is very similar to that of the Beta 58A, and the mic can be distinguished by its barrel-shaped grille.



The Shure Beta series
(l-r): The 58A, 57A,
87 (centre top), 56
(centre bottom) and 52.

THE BETA 56 & 52

The Beta 56 has a slightly less pronounced presence peak than the Beta 57A, but is again a general-purpose model especially suited to drum and instrument amplifier miking. The mic has a very short body and an integral swivel stand adaptor which makes it particularly good at getting into tight spots, such as between drums and cymbal stands. It is well suited to miking snares as well as toms and also works well with brass and woodwind.

Until recently, Shure haven't had a high-profile bass drum mic to compete with the likes of the AKG D112, but the new Beta 52 now seems to fit the bill nicely. Again equipped with an integral swivel stand adaptor, the Beta 52 has a large body, and can accommodate the very high SPLs encountered inside kick drums. The maximum SPL is calculated as being 174dB at 1kHz — evidently Shure couldn't find anything loud enough to actually test it with! The frequency response plot extends from 20Hz to 10kHz and shows this to be anything but an honest mic — it is specifically designed to bring out the deep kick and the high-end impact sound of the kick drum. Used up close, the proximity effect results in a hefty boost in the 30 to 50Hz region, and the top end features an almost violent presence peak at 4kHz which really helps bring out the head impact 'click'. This, coupled with a lower mid-range dip results in a very confident tone, with bags of edge and minimal 'muddying'. No doubt somebody will want to use this as a vocal mic because of its looks, but my guess is that it's best reserved for miking kick drum or bass guitar amplifiers.

THE BETA 87

Finally, there's the back-electret Beta 87, which has a barrel-shaped grille similar to that of the Beta 57. Like the dynamic mics in the range, this model has a robust capsule suspension system and manages a useful frequency range of 50Hz to 18kHz. The presence peak is similar to that of the Beta 58, but because of the extended frequency response, the sound is noticeably more 'open' than you get from a dynamic mic. A phantom power source of between 12 and 52V can be used to power the microphone. The maximum SPL when running into a 150Ω input is 134dB. Surprisingly perhaps, the Beta 87 isn't a great deal more sensitive than the dynamic mics in the range, but as it's designed for close use, perhaps this isn't a bad thing. It does, however, make the mic less suitable than some other capacitor and back-electret models for recording acoustic guitar. On the plus side, this mic has a rich warmth which combines the punch and presence of a dynamic with the top end clarity of a capacitor.

SUMMARY

Overall, this is a well-designed series of microphones which combines quality of sound with seriously heavy-duty construction. The range is obviously designed primarily for live performance, but all the models would be equally at home in the studio. The Beta 87 is a strong vocal performer, while the Beta 57A and 58A deliver the classic sound but with a slightly enhanced edge. The Beta 57A is a fine tom mic, and if I had to choose an all-rounder from the range, it would probably be the 57A. Having said that, I'm glad to see Shure building mics like the Beta 52 and Beta 56 for specific drum applications, especially the Beta 52 kick drum mic.

Finally, if you decide to go for one or more of these mics, be sure to check it out carefully to make sure it's exactly what you want — because knowing Shure's build quality, it'll still be going strong in 20 years' time!

505



MAIL ORDER A SPECIALITY - GREAT PRICES - FAST DELIVERY

0191 230 3422

SECONDHAND EX DEMO AND SOME NEW BARGAINS

| | | | |
|--------------------------|-------|---|-----------|
| Alcat 52000 | £939 | Korg AX30G | £249 |
| Alesis S4 Module | £699 | Kurzweil K2500R | £10W |
| Alesis OS4 | £CALL | Roland P55 Piano Module | £299 |
| Alesis DM5 Drum Module | £399 | Roland D10 | £299 |
| Alesis SR14 | £159 | Roland JP10 | £449 |
| Behringer Eurodesk | £1799 | Roland D20 | £459 |
| Boss DR5 Drums | £249 | Roland Juno 106 | £299 |
| Boss DR66Drums | £249 | Studiomaster Power House 8/2 600w Mixer | £639 |
| Boss ME8 | £229 | Studiomaster Diamond 8/2 Mix | £195 |
| Casio VZ10n | £169 | Studiomaster Diamond 16/2 Mix | £329 |
| Digitech Studio Vocalist | £779 | Studiomaster Vision 10/2 700w Powered Mix | £1699 |
| Digitech Mini Vocalist | £379 | Soundtracks Tapaz Mazzi 24 | £1389 |
| Emu Proteus XR | £549 | Yamaha M18n | £799 |
| Emu Vintage Keys Plus | £599 | Yamaha MT8n | £279 |
| Emu Proteus FX | £669 | Yamaha MT4 | £289 |
| Emu Morphous | £899 | Yamaha DR7 | £279 |
| Emu ESC2 | £299 | Yamaha W7 | £899 |
| Emu E64 | £299 | Yamaha SY85 | £699 |
| Emu Performance | £299 | Yamaha SY35 | £299 |
| Emu Darwin | £299 | Yamaha DR7 | £279 |
| Fostex XRZ | £399 | Yamaha W7 | £899 |
| Kawai G Mega IX | £159 | Yamaha SY85 | £699 |
| Korg X3 | £869 | Yamaha SY35 | £299 |
| Korg i3 | £1359 | Yamaha Promix 01 | £1549 |
| Korg X5 | £399 | Yamaha RY8 | £169 |
| Korg OSR/W | £389 | Yamaha RX5 Separate Outs | £149 |
| | | Yamaha RT20 | £269 |
| | | Yamaha PSR7000 | EVERY LOW |

KEYBOARDS AND MODULES

| | | | |
|--|-----------|--|---------------|
| Alesis OS4 New Budget Quadrasynth | £739 | Alesis Monitor 1 | £299 |
| Alesis S4 Plus Piano Module | £679 | Alesis Midiverb 4 | £339 |
| Emu Orbit The Latest And hottest Dance Module | £CALL | Auris MEQ230 Graphic | £209 |
| Emu Ultra Proteus | £249 | Auris 3430 Compressor | £219 |
| Emu Proteus FX | £459 | A. Health CS1 Brilliant Mixer | £689 |
| Emu Performance 1 Plus | £269 | ART 315 Foot Controller | £198 |
| Emu Vintage Keys Plus | £799 | ART Tube Pre-Amp | £CALL |
| Emu Morphous | £899 | Bacarc Barry 8BE 462 Masteriser (FULL RANGE OF BEE IN STOCK) | £269 |
| Emu Classic Keys | £489 | Behringer Eurodesk | NEW LOW PRICE |
| Emu ESC2 SW And SCSI Plus Huge Free Library | £10W | Behringer Composer | £239 |
| Emu E64 Turbo (New Product) 8mb, 270mb | £10W | Behringer Autocam | £159 |
| Emu E4K | £CALL | Behringer DuoFlex | £125 |
| Ersoning TS10 | £1399 | Behringer Ultraflex | £10W |
| Ersoning TS12 Weighted Version | £1499 | Digitech Studio Vocalist | £199 |
| Ersoning ASR10 Keyboard Dr Rack + Huge Free Library | £1499 | Digitech Midi Vocalist | £199 |
| Ersoning ASR88 Keyboard | £CALL | Digitech Studio Quad | £CALL |
| Ersoning MR Backs (#1080 Beater For Much Less) | £899 | Digitech BP6 | £259 |
| Fatar Studio 900 Mother Keys(Full Range In Stock) | £549 | Digitech TS24 | £10W |
| Fatar Studio 610 Mother Keys | £199 | EMI Turcan Amazing Stand Alone Hard Disk Recording | £2399 |
| Kawai G Mega IX Great Low Priced Module | £169 | Fostex DM18 | £CALL |
| Korg Prophecy | EVERY LOW | Fostex RD-8 Digital 8 Track | £CALL |
| Korg Trinity | EVERY LOW | Fostex RD-5 digital Mastering | £CALL |
| Korg OASYS Open Architecture Synthesis System | £CALL | Fostex XR3 | £225 |
| Korg X3 Plus Free Sounds Plus Free Video Manual | £859 | Fostex XR5 | £299 |
| Korg X5D New Powerfull synth | £889 | Fostex XR7 | £429 |
| Korg X5 Plus Free Sounds Plus | £589 | Korg AX30G | £259 |
| Korg i3 Plus Free Sounds | £1369 | LA Audio 4X4 Comp/2x Gates(Full Range In Stock) | £289 |
| Korg i4S | £879 | LA Audio 4C 4x Comps | £319 |
| Korg i5S New Version Of i4s | £899 | LA Audio 4G 4x Gates | £319 |
| Korg i5M New Module Version Of i5 | £CALL | Laxicon Alex | £319 |
| Korg OSR/W | £399 | Laxicon Reflex | £375 |
| Korg X5DR Amazing New Module | £499 | Mackie 8 Bus Mixers Ring For Best Prices And Packages | £CALL |
| Korg W Harmonizer And Vocorder | £319 | Mackie 1404 VLMixer | £CALL |
| Kurzweil K2500R | £CALL | Mackie 1202 VLMixer | £349 |
| Novation Bass Station | £289 | Phillips DCX70 Pkg Inc Tapes & Remote | £249 |
| Novation Bass Station Synth | £339 | Samson MPL 1604 Mixer Great Spec | £439 |
| Nord Lead Virtual Analog Rack | £CALL | Soundtracs TOPAZ Mazzi 24 | £1599 |
| Quasimidi The Raven | £CALL | Soundtracs Solo/Mini With Mini Mixer | £10W |
| Quasimidi Quasar | £CALL | Soundtracs Tapaz Mini And Macro Mixers | £10W |
| Quasimidi Techno | £CALL | Studiomaster Gold | £599 |
| Quasimidi (Cyborg-6 Incredible New Mother Keys | £CALL | Studiomaster P7 16/8 Or 24/8 | £10W LOWEST |
| Yamaha S110 New Entry Level Sampler At Ultra Low Price | £299 | *EXCLUSIVE DEAL ON YAMAHA MIXERS, RING NOW FOR YOURS* | |
| Yamaha W/7 Plus Free Sounds, Plus Free Sound Board | £889 | Yamaha MX200 8/2RRP 599 | £419 |
| Yamaha OS300 Brilliant New Low Priced Workstation | £939 | Yamaha MX200 12/2 RRP 749 | £525 |
| Yamaha SY85 1 Loads of Free Extra Sounds! | £275 | Yamaha MX200 16/2 RRP 899 | £629 |
| Yamaha C1x Amazing New Analogue Control Synth | £599 | Yamaha MX200 24/2 RRP 1199 | £839 |
| Yamaha MU80 | £519 | Yamaha MM14020 8/2 RRP 429 | £429 |
| Yamaha MU50 New High Spec Low Priced Module | £329 | Yamaha ProMix 01 | £1599 |
| Yamaha MU5 | £179 | Yamaha ProMix 02R | £CALL |
| Yamaha P50-n New Piano Module based on P500 | £339 | Yamaha MD4 Mini Disk 4 Track Coming Soon | £999 |
| Yamaha P150 Amazing New Stage Piano | £CALL | Yamaha MT50 Amazing New 4 Track Great Features | £299 |
| Yamaha P110 Piano New Low Price | £1169 | Yamaha MT8X New 8 Track In Stock | £859 |
| Yamaha PSR620 | £539 | Yamaha MT4X The Best Around In All The Four Tracks | £399 |
| Yamaha PSR820 | £409 | Yamaha NS10M Monitors Pair | £239 |
| Yamaha PSR420 | £269 | Yamaha REY100 Digital Reverb | £199 |
| Yamaha PSR7000 | £CALL | Yamaha Pro R3 Serious Digital Reverb From 12RComing Soon | £1199 |
| Yamaha PSR4000 | £CALL | Yamaha GW10 | £239 |

*We want be beaten on deals or services. So check us out!

MIKES & RADIO SYSTEMS

| | |
|---|-------|
| AKG WMS100 | £10W |
| AKG WMS50 | £349 |
| AKG D455 | £39 |
| AKG C10005 | £179 |
| AKG C3000 | £279 |
| Beyer TGX40 | £137 |
| Beyer TGX60 | £165 |
| Beyer TGX80 | £199 |
| Beyer M8200 | £79 |
| Beyer S150G Guitar System | £169 |
| Beyer S150M Mic System | £269 |
| Beyer S250H Mic System | £349 |
| Beyer Boom Mike Stands Complete Crazy Price | £35 |
| Dynalock Boom Mike Stands Crazy Price | £25 |
| Samheiser MD50M Amazing New Bass Drum Mike | £79 |
| Samheiser 1051 Diversity System New Crazy Price | £499 |
| Shure SM58 | £CALL |
| Shure ET1/SB5 | £299 |
| Shure EC23/Beta 585 | £10W |
| Shure ET1/SB0 | £399 |

SHURE, BEYER, SAMHEISER, AKG, RIBES AND HEADPHONES ALL ON GREAT DEALS

RECORDING AND EFFECTS

| | |
|---|-------|
| Alesis ADAT XT + Studiomaster P7 16/8/16 | £3999 |
| Alesis ADAT XT + Soundtracks Tapaz 24 8/2 | £3899 |
| Alesis ADAT + Mackie 8 Buss | £10W |
| Alesis Microverb 4 | £249 |
| Alesis Quadverb 11 | £499 |

DRUMS & SEQUENCERS

| | |
|--|-------|
| Alesis SR16 | £199 |
| Alesis DSR New Version Of The Popular D4 | £10W |
| Novation Drum Station | £CALL |
| Roland/Boss DR5 | £259 |
| Roland/Boss DR660 | £299 |
| Yamaha MDP2 | £299 |
| Yamaha RY20 | £299 |
| Yamaha RY8 | £199 |
| Yamaha QY22 New General Midi Version Of QY20 | £CALL |
| Yamaha QY300 Plus Free Video Manual | £549 |
| Yamaha QY700 Massive Spat New Sequencer/Module Coming Soon | £999 |

SOFTWARE AND SOUND CARDS

| | |
|---|-------|
| Steinberg Cubase Score | £CALL |
| Steinberg Cubase | £135 |
| Notator Logic V2.0 | £279 |
| Procyon | £30 |
| Jazz Guitarist | £49 |
| SY85Discs(Various) | £25 |
| W7 Discs(Various) | £25 |
| Gom S2 Sample Translator | £20 |
| Yamaha SY85 Vintage Boards | £49 |
| Yamaha Sound Edge | £CALL |
| Yamaha D850GX Daughter Board | £149 |
| VIDEO MANUALS For most things available at low prices | £CALL |

27-29 DEAN STREET, NEWCASTLE ON TYNE NE1 1PQ
 TEL: 0191 230 3422 FAX: 0191 222 1663
 SURF SOUNDSLIVE: E-MAIL: 100422.3716 @compuserve.com

E Beta 52 £264.38; Beta 56 £205.63; Beta 57A £186.83;
 Beta 58A £229.13; Beta 87 £381.88. All prices include VAT.
A HW International, 167-171 Willoughby Lane, London N17 0BS.
T 0181 808 2222.
F 0181 808 5599.

STEEL APPEAL

As Mackie's new 1402VLZ goes a long way to bridging the gap between their original 1202 and 1604, it comes as no surprise that the new 1604VLZ has evolved a whole new range of features. **PAUL WHITE** checks out the update of this steel-clad classic...



MACKIE CR1604VLZ 16-CHANNEL MIXER

Mackie's original 1604 (reviewed way back in *SOS* December '91) put the company squarely on the map as a serious mixer manufacturer, but since then their range has expanded considerably, with the new 1604VLZ occupying pride of place at the top of the 'small but cute' general-purpose mixer range. The 1604VLZ retains the trademark Mackie sheet steel casing, as well as the original 1604's ability to convert the mixer from table-top to rackmount mode, by adding rack ears and reorientating the rear-panel connector pod, so that the connectors appear on the top panel rather than on the back. This seemingly complex feat takes only a few minutes and requires nothing more than a Philips screwdriver.

ACROSS THE CHANNEL(S)

The 1604VLZ is still very much a general-purpose mixer, with 16 mono mic/line channels and four stereo effects returns, but unlike its VLZ-less forebear, the VLZ version now has true 4-buss routing in addition to L-R routing. Faders are used to control the channel gains, the four buss output levels and the main stereo output. Each channel sports a switchable 75Hz, 18dB/octave, low-cut filter, as well as a TRS jack insert point.

Like a full-size console, each channel kicks off

with a gain Trim control. The Solo system offers both AFL and PFL modes, so you can use the meters in PFL mode to set up the trims properly. The 3-band EQ has a swept mid-range control, but no bypass button. The high control operates at 12kHz, while the low control comes in at 80Hz, and I'm pleased to see that the mid sweep range goes from 8kHz right down to 100Hz, which means you really can use it to get to grips with bass EQ problems. There are four aux sends per channel, and sends 3 and 4 can be switched as a pair to aux busses 5 and 6, which makes this a very flexible mixer for serious music production work. What's more, both Aux 1 and 2 may be switched, as a

pros & cons

MACKIE CR1604VLZ £949

pros

- Excellent sound quality.
- Great features, especially the EQ and the number of aux busses.
- No external PSU.
- First-class manual.

cons

- No EQ bypass.

summary

This must be one of the most desirable compact mixers around!

SOUND ON SOUND

BRIEF SPECIFICATION

| | |
|---|---|
| Frequency Response (any input to any output): | 20Hz to 60kHz +0dB/-1dB. Up to 100kHz at -3dB |
| THD @ 1kHz, (measured at +14dB) | 0.005% |
| Common Mode Rejection (CMR) mic input to insert send: | better than -80dB |
| Equivalent Input Noise (150Ω): | -129.5dBu unweighted |
| Dimensions: | 442 x 455 x 140mm |
| Weight: | 9.1kg approx |

pair, to pre- or post-fade operation. The second pair of sends are dedicated post-fade effects sends.

Routing is achieved via three buttons: 1-2, 3-4 and L-R, with the Pan control being used to move the signal between odd- and even-numbered busses. Green signal LEDs come on when the channel signals exceed the -20dB level, and red overload LEDs warn of impending clipping. When a Solo button is pressed, the Signal LED stays illuminated, and when a channel is muted, the red Overload LED stays on. When one or more channels are solo'd, they're heard in isolation over the Control Room/Phones output, and their levels are shown on the meters.

MASTER CONTROLS

Considering that this is a compact mixer, it has a very grown-up master section with just about every facility you'd expect on a mixing board, apart from talkback. It even has a BNC socket for a gooseneck lamp. Aux send output level controls are provided for sends 1 and 2 only; the rest go directly to the outside world, so you have to use the input gain on your effects units if you want to boost the signal, though that shouldn't present a problem. All four stereo aux returns have gain controls, and whatever effect signal is coming in on Return 1 can be fed to Aux Send 1, making it possible to add effects to foldback in live or recording applications. Similarly, a second control allows Aux Return 2 to be fed into the Aux 2 send. Note that although the send and return numbers correspond, you wouldn't generally use them that way. When recording or setting up a PA, Aux 1 and 2 would generally be used for foldback, and the effects would be connected to sends 3 to 6.

Aux Return 4 may be routed to the main mix or to either of the Group pairs (which Mackie call Subs), while the fourth return may be routed into the control room/phones feed only if required, which makes it easy to add 'comfort' reverb to the headphone mix if you're recording in the same room as your mixer. A single Solo button allows all the returns to be solo'd together, and sends 1 and 2 also have their own Solo buttons.

Faders are provided for the Main Mix and Group levels. Each Group may be assigned to the stereo buss using separate Left and Right buttons (used in combination for left, right or centre panning) and the headphone output follows the control room output, the level of which is controlled by a knob. The control room feed can be taken from either an external 2-track tape machine, Groups 1-2, Groups 3-4 or the main stereo mix. The tape input has its own level control, and phono connectors are fitted to provide tape in and out connections. A further button routes the tape return into the main mix, which means the tape return can be used as yet another stereo line input, bringing the total of simultaneously mixable sources up to 26.

Two 12-section, LED bargraph meters follow the control room source selection, though if you press any Solo buttons, these signals take priority on the meters. There is sufficient headroom for -10dBV and +4dBu operation, and like the other Mackie VLZ mixers we've looked at, the meter scale is such that 0VU = 0dBu rather than +4dBu (or -10dBV, if

MAKING Z LINES — MORE ON VLZ

For those who missed the 1202VLZ and 1402VLZ reviews in February and June this year, the VLZ in the name of all the new Mackie compact mixers is more than just an imposing bunch of letters — it stands for Very Low Z design, with Z denoting impedance. Console mix buss noise is caused by the need to add multiple signals using virtual earth mixing amplifiers, and the more channels you use, the greater

the noise. Another major factor in mixer noise is the circuit impedance where the channel signal feeds into the virtual earth mixing point; the higher the impedance, the higher the noise. However, this impedance can't be made too low, otherwise the virtual earth amplifier will be unable to provide sufficient feedback current to maintain its own virtual earth input, and the signal will distort. How low you

can go depends on the design of the mix amplifiers themselves — and Mackie have managed to drop the value of the mix resistors to around a third of what you might normally expect without overtaxing their mix amplifiers. This measure produces a worthwhile improvement in noise, and is being applied to all the new Mackie desks. Other circuit changes have also been made to increase the internal headroom of the VLZ mixers.

that's the level your mixer works at). Personally, I like this honest approach, because you know what your true output signal levels really are at all times.

The Solo mode may be switched from AFL to PFL, and a separate Solo level control means you can solo a channel without being deafened. A bright green Solo master LED flashes whenever a channel is solo'd. Why this is green when it is red on all the other Mackie mixers I've tried is one of life's little mysteries...

OPINIONS

The more you look at the CR1604VLZ, the more you realise what a super little desk it is. It has more than enough facilities to be used as an 8-track recording console, and the signal path is clean enough to do justice to the modern generation of digital multitrackers. What's more, you could rack up one of these mixers with an Alesis ADAT or Tascam DA88 and have a brilliant, portable live recording setup in one flightcase. Even though there are only four Group outs, you can take direct outputs from the insert points just by plugging in an unbalanced jack lead. See the 'Socket Set' box on connections for more details.

Though some of the controls get pretty close to being cramped (especially the buttons between the faders), there's very little to criticise about this mixer — about the only thing I really miss is not having EQ bypass buttons. However, you do get low-cut filters, and unlike those fitted to some desks, these really work, and seem to come in at exactly the right frequency.

The EQ is extremely positive yet very musical, adding a lovely sizzle at the top end, and a warm punch at the bottom. As you'd expect from a well-designed modern mixer, the noise floor is extremely low, and the '60kHz plus' frequency response helps maintain clarity at high frequencies and on transients. On balance, this is a very worthy successor to the original 1604, and incorporates significant advances.

SOS

THE SOCKET SET — CONNECTIONS

The XLR mic inputs and all the TSR jack line inputs and outputs are electronically balanced. All insert points are, of course, unbalanced, and require the use of a Y lead or patchbay. There's also a mono output which has a rear-panel gain trim adjustable anywhere from fully off to +6dB of gain.

To obtain a direct channel output, plug a mono jack into the insert point. This will also mute the channel signal. To take a direct feed without muting the channel, plug a mono jack in half-way or make up a lead with a stereo jack, where the tip and ring terminals are linked. The 2-track tape connections are on phonos, and phantom power is available globally via a control adjacent to the mains switch.

£ E949 inc VAT.
A Key Audio Systems Ltd, Unit D
Chelford Court, Robjohns Road,
Chelmsford CM1 3AG.
T 10245 344001.
F 01245 344002.

Info

*With years of record label legal wrangles finally behind him, George Michael set about making an album to put him back at the top of the charts and consolidate his status as serious artist/producer. Working the desk on the *Older* sessions at SARM West was engineer Paul Gomersall, who tells MARK CUNNINGHAM about the making of the album.*

*T*welve years ago this summer George Michael and Andrew Ridgeley as Wham! were bouncing around in their white shorts, singing 'Wake Me Up Before You Go-Go' to a worshipful *Top Of The Pops* audience. Back then, there was little to suggest that Michael would make it big, then bigger still as one of Britain's premier pop songwriters and solo performers. The emotional ballad 'Careless Whisper', from that same summer, was the first sign that Michael had ambitions above Wham!'s apparent disposability, and his debut solo album, *Faith*, displayed clear indications of a burgeoning maturity. But it was in 1990, with *Listen Without Prejudice (Volume One)* and quality songs such as 'Praying For Time', 'Soul Free'

and the beautifully-textured 'Cowboys And Angels' that critics began to favourably compare Michael's writing skills with those of Elton John.

Owing to well-publicised legal fisticuffs with his former label, Sony, Michael was unable to release new product for six years, but the public never lost interest, and the response to his recent dance hit, 'FastLove', and its new parent album, *Older*, has been little short of ecstatic.

RENEWAL OF FAITH

The recording of *Older*, largely in SARM West's Studio Two, occasioned a reunion with engineer Paul Gomersall, who assisted producer Chris Porter on several Wham! records, as well as engineering sessions in Denmark's PUK studios for *Faith*, back in 1987. Not only did *Older* herald the launch of Michael's new regime following his split with Sony, which sees the formation with cousin Andros Georgiou of his own North London-based record label, ÆGEAN, it was also notable for the artist's first use of a hard disk recording system, namely the Otari RADAR.

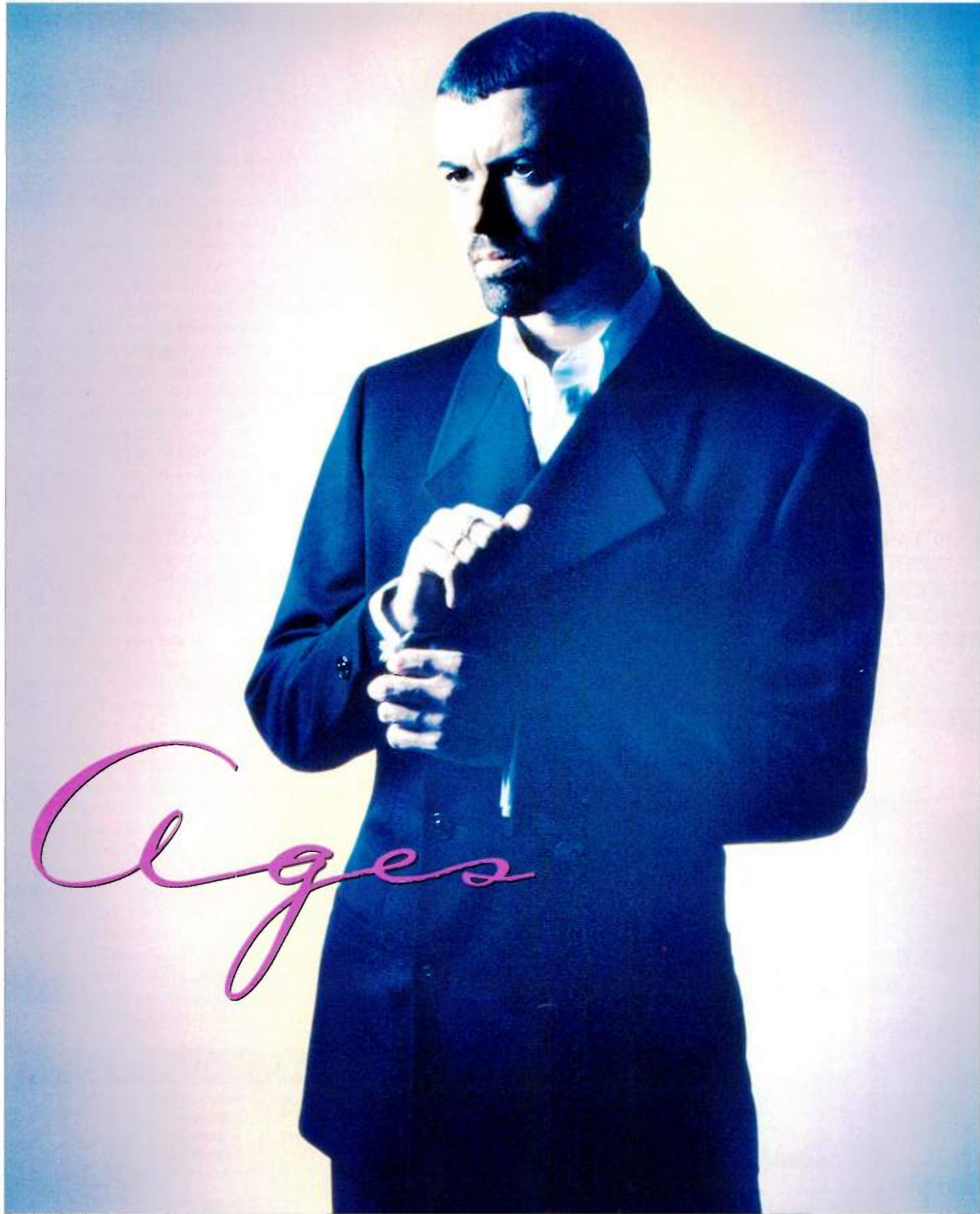
Gomersall saw little of Michael during his withdrawal from the public eye in the early '90s and was pleasantly surprised to receive a call to start work on *Older*. He says: "George likes to keep a regular team together and, having done so much with him over the years, it was great to be back in the frame. When we started on this album, Chris Porter made the decision to move strictly into production with people like Gary Barlow, so he quit the project

Rock of

PAUL GOMERSALL • RECORDING GEORGE MICHAEL'S *OLDER*



Picture courtesy Stirling Audio.



and it created the space for me to work in.

"Compared with what I experienced on the *Faith* sessions at PUK in Denmark, it was very different this time around, with George a lot more in control, and playing most of the keyboards and bass guitar. We've used a lot more computers and synths on this album than George was previously accustomed to, and now that the technology has improved so much, along with his grasp of it, he's doing a lot more himself, as opposed to bringing in a lot of musicians. On *Faith*, the musicians were around all day, every day — Deon Estus on

bass, Chris Cameron on keyboards and Hugh Burns on guitar. But he has always appreciated that his listening audience wants to hear George Michael, so he now tends to do most of the work himself. So the programmer, Steve McNichol, got the sounds up for him on the keyboards and helped to streamline a creative environment. Chris Cameron was called in occasionally if George got stuck on certain chord progressions and he played a few takes into the computer, so that we could cut, paste or copy the sections George liked best. Steve Sidwell also came in to do some horn tracks but

RECORDING GEORGE MICHAEL'S OLDER

▶ apart from a few other contributors, the album consists mostly of George's performances."

The sessions for *Older* took almost a year to complete, in fits and starts, and, unlike many artists conscious of the high costs involved in block-booking a studio of SARM's stature, Michael did not demo his songs in advance. Gomersall observes: "He arrived with the songs in his head, and whenever he was ready to lay something down, he would call the guys into the studio and spend a few hours getting a basic backing track on tape, and then they'd leave."

HARD DISK BENEFITS

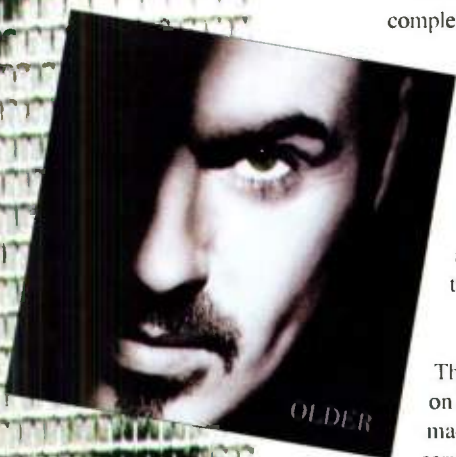
The recording of Michael's new album began on his own Mitsubishi X850 32-track digital machine which, due to its reliance on regular servicing and tendency to emit strange noises, was beginning to wear the patience of the studio team. It was clearly time for a change and when good reports were received of Chris Porter's purchase of the Otari RADAR hard disk recorder, the team were keen to try out a system.

Gomersall: "Stirling Audio lent us one 24-track RADAR for three weeks and we slaved it to the 32-track machine. We found that there were certain aspects of the system that proved invaluable and, compared to the Mitsubishi's somewhat harsh sound, the RADAR's playback response is very faithful to what is recorded. So when it came to the end of the loan period, I said to George that it would be great if we could have one. He replied that we should have two! So that was when we stopped using the Mitsubishi, and

we transferred everything onto the two RADARs."

Michael's favourite room in London, SARM's Studio Two, features an SSL E-Series 48-channel console, and in addition to the Yamaha NS10 and Auratone monitoring, his own Dynaudio monitors were installed for occasional beefier playbacks. Despite the fact that parts of *Older* display some rare, dry-sounding vocals, the production of Michael's voice on torch ballads such as 'Jesus To A Child' has been traditionally notable for the use of long, lush reverbs. Debate over the processing used on that track in particular continues on the pro audio sectors of the Internet, but Gomersall provides the definitive answer. "It used to be the old EMT plate on the Wham! records, but we don't even plug it in any more. It hums too much. So we now put his vocals through a range of Lexicon gear — the 224X, 480 and PCM80. I prefer the 224X to the 480 because it sounds a little warmer, and the PCM80 is from the same family. George's favoured vocal mic is a Neumann U49; we got it from PUK Studios when we did 'One More Try' for *Faith*. He liked the sound of the mic so much that when we left, Chris Porter asked if we could buy it from them. He now takes it to every session."

The sessions also saw Michael engineering his own vocal drop-ins on around half of the tracks. Says Gomersall: "An artist can get terribly frustrated when he is trying to direct someone in the control room about places in a track where he wants to replace a vocal, and when an artist is cooking, he wants to act *now*. Almost from the word go, the desk was in mix mode because George writes his lyrics and melodies as he is recording the song. In the past, he has sung a line and then asked me to drop him in on one of the words in that line that I've only just heard for the first time! So I've often asked 'which line?' But having the RADAR, we were able to set up the remote controller on a speaker stand in the studio just by the microphone and George used it to literally drop himself in and out."



Two of the main flightcases in George's home studio facility. Top case, from top to bottom: Opcode Studio 4 MIDI interface, Emu Procussion drum module, and Emu Vintage Keys, Emu Ultra Proteus, Yamaha TG500, Roland MVS1, Kurzweil K2000R and Roland JV1080 synth modules. Lower case, from top to bottom: Akai S3200, S3000i (x2), DAC hard drive.

GEORGE MICHAEL'S STUDIO

SARM West for *Older*. Items marked with a star are in George's home studio, but were not used in the making of *Older*.

RECORDING

- AKG LSM50 cube monitors
- Aphex Expressor compressor
- Denon tape deck *
- Dynaudio Acoustics M1 monitors
- Lexicon PCM80 effects
- Lexicon LXP15 effects
- Mackie 32•8 32:8:2 8-buss console
- Otari RADAR 24-track hard disk recorders (x2)
- Tascam DA20 DAT *
- Yamaha NS10 monitors

SOUNDS

- Akai S3000i samplers (x2)
- Akai S3200 sampler *

- Emu Procussion percussion module
- Emu Vintage Keys Plus module
- Emu Ultra Proteus synth module
- Korg Prophecy keyboard synth
- Korg Trinity Plus keyboard synth
- Kurzweil K2000 sampler/synth
- Roland JV1080 synth module
- Roland Juno 106 analogue keyboard synth
- Roland Vintage Synth MVS1 sound module
- Studio Electronics SE1 synth module *
- Yamaha SY77 keyboard synth
- Yamaha TG500 synth module

MISCELLANEOUS

- DAC hard drive *
- Opcode Studio 4 MIDI interface (x2)
- Powermaster drive *



The two Otari RADAR hard disk recorders used to make Older.

Within George Michael's newly-acquired and highly attractive London office suite is his new writing studio, which is filled with the best of today's technology and maintained by his assistant and new programmer, Niall Flynn. Gomersall comments: "George realises the benefits of leaving your house every day to go to another place to do your work. So Niall has been getting the studio up and running, and ready for George to start work on his next projects."

Michael's studio includes the following equipment, with much of the same processing hardware used at

Digital Only Card D

- S/PDIF Digital I/O card for PC
- 48 kHz, 44.1 kHz, 32 kHz sample rates.

£379

Omega Jaz drive

- 1 GByte removable hard drive. (SCSI)
- Up to 190 minutes of digital audio on 1 removable cartridge.
- Record direct to your Jaz from any of the Hard Disk Recording products on this page.

£539

Steinberg Wavelab

- Complete stereo audio editing
- Crossfades
- TimeStretch
- Harmonizer
- Sample Rate Converter
- Batch processing

£299

Turtle Beach Tahiti Card

- 16 bit 44.1 kHz recording
- 20 MIPS Motorola 56001 DSP
- Industry standard daughterboard connector
- 1 in 2 out multi port Midi interface

£295

Yamaha DB50XG

Experience over 600 stunning XG sounds you can simply snap on to your existing PC sound card.

Now Only

£125

Midi Express for Mac/PC

- 6 in 6 out midi interface
- SMPTE
- 1u Rackmount
- Easy to install
- Compatible with everything

£POA

Millennium Music Software

- Helpful service • Over 3 years dedicated service to computer musicians worldwide
- Academic orders welcome • Fast delivery into Europe • Studio installation available

Midi Interfaces

We stock all types of midi interface for your computer. Call for the best advice at the best price.

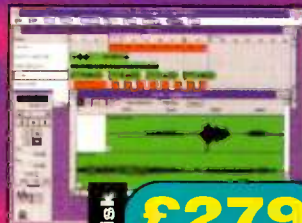


Cakewalk Pro Audio



for Windows

- 256 Midi tracks
- 8 Audio Tracks
- Customized Instrument definitions and patch names
- Sysex Librarian included
- CD Deluxe version includes loads of WaveAudio samples



CD Disk

£279

£319

Encore V4.0

- Professional Notation software for Windows and Mac
- 64 Staves
- Cross staff beam
- Guitar Tab
- Part Extraction
- Percussion staff



£399

A REVOLUTION IN PC HARD DISK RECORDING

Digidesign AudioMedia III

PCI digital audio card including Session Software for Windows / Mac

- 4-track simultaneous audio record
- 8-track simultaneous playback
- 16-bit, 11.025 kHz, 22.050 kHz, 44.1 kHz, 48 kHz sample rates
- 2 analogue inputs, 2 analogue outputs, stereo-digital inputs/outputs (S/PDIF)
- Motorola 5600X series DSP



Card only **£699**

Total system inc Card and Session software **£879**

Steinberg Cubase 3.0 VST for Power Mac

A complete recording studio environment for your Power Mac including upto 32 tracks of Digital Audio with no extra hardware required. Automated mixing, eq, and realtime Reverb, Chorus, Delay, Time Stretch, Pitch Shift etc. etc.



£329

Steinberg Cubase V3.0

for Windows

- Digital recording as standard.
- Integrated AVI playback
- StyleTrax - Fully configurable auto styles
- Full Colour Support



Only

£329

digidesign®

Evolution Music Creator Pro

Complete PC music system with full size midi keyboard, sequencing software & Soundcard Midi adaptor. Sequencer features include:
Piano Roll and Drum Editor
Score Editing & painting
Wave Audio Support and much more!



Only **£119.95**

Soundscape

Soundscape digital recorder in stock and on demo.

Reverb Module now available with V1.18 software

£275

Coming Soon

Logic Audio MAGIC

V2.5 for PC Supports PC Soundcards for 8 tracks of digital recording.



Hurts Yard, Nottingham NG1 6JD

Fax: (0115) 952 0876

(0115)

955 2200

RECORDING GEORGE MICHAEL'S OLDER

► GOMERSALL GOES TO HOLLYWOOD

It was while attending a music electronics course at the London School of Furniture in Whitechapel that Nottinghamshire lad Gomersall first set eyes on a recording studio — SARM East in nearby Osborn Street — and decided an engineer's life was for him. He recalls: "A group of us from the college went there on a day trip, and I saw all these buttons and knobs, which immediately impressed me. As a kid, I had a Grundig reel-to-reel tape recorder, and I'd always played around with cutting up bits of tape and doing my own version of editing, as well as fiddling with short-wave radio. I knew deep down that this was something I wanted to do, so I applied for a position there. At the first interview, I was faced with Trevor Horn, Jill Sinclair and Gary Langan, sitting in a row in front of me like the hanging committee! Even when I got the job, nobody ever told me what was expected of me, so I literally played it by ear and learned 80% of the job within the first three months just through enthusiasm and asking people things."

Gomersall joined the SARM team in 1984 and was almost immediately posted to a session with Trevor Horn and Yes after accidentally nudging a flight case and crushing the original assistant engineer's foot. "I filled in while he went to hospital! But I must have done something right, because I continued as an assistant, and went on to work with Steve Lipson and Trevor on Frankie Goes To Hollywood." His training was fortified by working alongside Horn and also a fresh-faced, 21-year-old George Michael. The differences between the approaches of the pair were at the time, he says, worlds apart. "I worked with Trevor on 'Two Tribes' for about a month, trying lots of different variations of a song. Even when he was mixing it, he still wondered what it would be like if it was done in a slightly different way. Digital

recording was just coming in, and it allowed him to save a lot of alternate takes and compile them with the computers. Of course, having lots of options means it takes longer to make decisions. Meanwhile, when George did Wham!'s 'Wake Me Up Before You Go-Go', he walked in with everything clearly planned in his head and completed the task within a day and a half. I had assumed through working with Trevor that three months was what it took, so it was quite a shock to discover the vastly different approaches to creating Number One singles. I quickly learned that there are no rules in record production!"

Working for SARM may have been an excellent starting point for Gomersall, but after five months, the long hours became unbearable. "As a young assistant, you are out to prove yourself, and you go out of your way to do whatever is asked, otherwise you feel you are risking your job. But, in the long term, it is a very negative, self-perpetuating situation, and one that I had to get out of. There were a couple of people who had gone freelance as assistant engineers, so I thought I'd break away and try my hand as a freelancer."

Twelve years down the line, Gomersall has engineered for some of the most successful names in the business, including Kate Bush, Phil Collins, Genesis, Blur, and Cast.

"After working alongside a producer and an artist on many occasions, I find it very refreshing to work on a purely one-to-one basis, as I have done with George. The artist is effectively producing and I have a direct line to him. It's always healthy for an artist in George's position to listen and react to a second artistic opinion, and I do offer such words of wisdom, but because he has always known exactly what he wants, especially in terms of vocal and musical phrasing, he generally ignores me! I think most people would agree that his track record more than suggests George is his own best producer."

SOS

DIGITAL RECORDING: "THE ONLY WAY"

Paul Gomersall strongly believes that the evolution of more intelligible, user-friendly hard disk systems is at last contributing to the eventual breakdown in the argument between analogue and digital formats. Gomersall says: "I tend to find that the people who support analogue and criticise digital are the ones who have never used digital. For me, digital is the only way now. I know about the arguments over the bandwidth thresholds of digital, that it can't record anything past 20kHz, but in my experience, playback from digital is 100% faithful to the performances I record. When you start recording on hard disk, there is something psychologically strange about not seeing a tape moving, but once your brain becomes accustomed to watching a screen display move instead of the tape transport, you forget all about it."

THE PROGRAMMER: STEVE McNICHOL

Having worked as a programmer for the likes of Diana Ross, the Pet Shop Boys, Genesis and Take That, as well as *Confidential*, the new Tina Turner/Pet Shop Boys collaboration, Steve McNichol was able to offer George Michael the ideal balance of experience for the making of *Older*, while also augmenting Michael's equipment with several pieces of his own. He says: "George is a lovely guy to work for. He's very direct about the sounds he wants, and excellent at communicating those thoughts. I left most of my stuff at home because George asked me to recommend a lot of stuff for him to buy, so I drew up a list for him, and he now has a freight load of gear!"

"I'm very pleased with the results we got with the strings for the title track, 'Older'. It was a mixture of samples and edited sounds on modules, with tons of controller information. We took a lot of time over volumes and pans to get the strings to sound as wonderful as they do, which is very Burt Bacharach. Chris Cameron contributed the string lines for that track, which has a feel of 'Cowboys And Angels' [from *Listen Without Prejudice*] about it, but that's

probably down to Chris's very stylistic playing.

"We were starting on the last track, 'Free', and it was going to be an overture containing all of the main themes, riffs and hooks from the tracks, worked into a groove. The plan was to take elements from the sequences and import them into a new file. But then it evolved into something quite different when Chris went away with a copy of the album, so that he could form a blended arrangement of these melodies based on this overture idea. So if you listen to that, there are bits of 'The Strangest Thing', one of the lead melodies from 'Older', and all sorts of little segments that won't instantly be recognised."

Gomersall comments: "Free" was originally twice as long as it appears on the album, and then it was hacked to bits on the RADAR, with chunks taken out and redirected throughout the piece. It was done mostly as an experiment, but it worked so well that the result sounds wholly intentional from the outset." Some work on *Older*, in particular the track 'Doesn't Really Matter', was carried out by Gomersall at his own home. While working on one of Michael's vocal

tracks at SARM, the threshold setting on the compressor was accidentally knocked and although Michael liked its effect on his voice, the distracting saliva noises within the actual singing needed to be removed using Emagic's *Logic Audio* — "a very time-consuming process," says Gomersall.

One of the remixes of 'FastLove' on the CD single features snatches of Wham!'s 'I'm Your Man' and Patrice Rushen's 'Forget-Me-Nots', but the original version of the track was a straightforward, uncomplicated affair in comparison. McNichol says: "George met up with Jon Douglas (producer of Lisa Moorish's version of 'I'm Your Man') one day at SARM, and he liked a lot of Jon's ideas, so he got him to add some extra touches to 'FastLove' in Studio Four. That version was then sent down to us in Studio Two for more input from George before mixing. The guys in Studio Four were using *Cubase*, whereas we had *Logic*, and it was interesting to see how the MIDI data from *Cubase* came back and booted up into *Logic*. You can import a *Cubase* song file or arrangement into *Logic*, and it keeps all the parameters set by *Cubase*, but it doesn't work the other way around, because *Cubase* cannot load *Logic* files."

Inspired
TASCAM

424 MKII

**In less than 20 years,
Tascam Portastudios™
have launched
thousands of recording
careers and tens of
thousands
of successful
songs.**

The **Tascam
424 MKII** now
improves on the
features and
performance of
one of **the
world's best
selling 4-track
recorders**, cutting
the cost of superb
home recording.

With advanced mixer, auto-locate, punch-in/punch-out, metering and sync capabilities at your fingertips, the 424 MKII is both a recording note pad and full-blown production centre.

No-one else makes Portastudios™ and there's nothing to match the 424 MKII for price and performance.

Use it, fire your imagination and take your musical creativity to new heights.

- 8 input mixer – 4 mono, 2 stereo
- 4 balanced XLR mic inputs for use of studio-quality condenser microphones
- 3-band EQ with sweepable mid
- 2 speed, variable pitch, logic controlled transport with 2 programmable locate points and RTZ function
- auto punch-in/out with rehearsal mode
- 2 fully dedicated sends
- FSK sync loop for locking to external drum machines and sequencers

- large FL display shows transport status, tape position, 4-track and stereo output metering
- 4 track simultaneous recording and individual track outputs



The Symbiosis Studio (250° panorama)

Digital DIY

DIGITAL TECHNOLOGY AND
THE MODERN MUSICIAN

Computers helped former BBC engineer CLIVE WILLIAMSON and his band Symbiosis through all the stages of CD production, right through to finished discs and artwork. In the first of a two-part series, he explains how he brought digital technology and traditional musicians together to create atmospheric ambient music.

Digital technology has been at the heart of most home-based and professional recording studios for about 10 years now, but only recently has it become feasible to carry out every stage of making an album with help from computers. In this two-part article, I'll be looking at the way computer technology has helped our group Symbiosis improve the scope of our writing and the sound of our recordings, to master our own CDs, and even to create our sleeve artwork.

The long-term potential of computers in music is enormous. They can offer creative freedom, ways to fine-tune a performance and — eventually — financial savings too! But things don't always work as they should. The falling cost of hi-tech equipment has brought many exciting tools into the price-range of the average musician, but it can be a time-consuming and frustrating business to learn how to use them. Hopefully, our experiences will be helpful to others planning to follow a similar route.

ANALOGUE DAYS

When we began Symbiosis, we needed to record concert flute played by John Hackett; acoustic, electric, and STEPP guitars from Rick Bolton; and my own voice, ethnic flutes, and hand percussion. Much of what we do is 'ambient' music in Eno's sense of the word — so our natural instruments were blended with atmospheric soundscapes and sampled percussion from synths. Our modest studio underwent rapid growth as I learned about MIDI. We moved quickly from a borrowed Tascam Porta 2 4-track cassette to a Fostex M80 8-track linked via a SMPTE timecode stripe and a synchronising unit to an Atari 1040 STFM computer system running C-Lab's *Notator* sequencing software. Pieces were mastered onto

"The UK's best up and coming Pro Audio & Hi-Tech Dealer..."

WAY OUT WEST

MUSIC COMPANY



47 London Road, Twickenham, Middlesex TW1 3SA
 Tel: 0181 744 1040/1050 Fax: 0181 744 1095



Professional Service | **We buy used gear & P/X** | **FREE Parking** | **1 Minute from Twickenham station** | **Express Nationwide & overseas Delivery** | **WOW Make nationwide installation service** | **Educational Discount**

BARGAIN BASEMENT

ANALOGUE

All portastudios include free "WOW Pack" Call!

WAY OUT £BEST PRICES

TASCAM

Porta 03 **£199**
 Porta 07 **£339**
 New 424 II **£399**
 464 **£699** 488 II **£995**

WOW

WAY OUT £BEST PRICES

FOSTEX

X18 **£299**
 XR3 **£249**
 XR5 **£335**
 XR7 **£449**
 280 **£449** 380S, **£599**
 R8, G16S, G24S
 OPEN REEL MACHINE SALE

WOW

WAY OUT £BEST PRICES

YAMAHA

MT 50 **£299**
 MT4X **£399**
 MT 8X **£895**

WOW

More Ex-Demo and Used Equipment Every Month

| | |
|---|---------------|
| Fostex G24S with 8330 Sync Board (Boxed A1) | £6450 |
| Tascam MSR 24 dbx | £3999 |
| Fostex 812 12:8:2 desk | £650 |
| Fostex Model 80 1/4" 8 Track | £575 |
| Korg X5 (Boxed) | £625 |
| Tascam 2600/24 24:8:2 desk (Boxed) | £1699 |
| Roland MT 100 | £275 |
| Roland CS155 Sound Canvas | £399 |
| Philips DCC's | £249 |
| Roland RS202 String Machine | £199 |
| MTR SLM 8:2 Rackmount | £95 |
| Korg 01W/FD Workstation | £950 |
| Roland D20 Workstation | £450 |
| Tascam 244 Portastudio (Boxed) | £295 |
| Roland RD250s Master Keyboard | £950 |
| Oberheim DPX-1 Sample Player | £250 |
| Peavey K100 8:2 Desk | £150 |
| Sansui MX12 Desk + MR6 6 Track | £499 |
| Rockman X100 | £95 |
| Roland MC500 Sequencer | £295 |
| Emax Sampling Keyboard | £450 |
| Akai S2000 Sampler with 10 Meg (Boxed) | £995 |
| Alesis D4 Drum Module (Boxed) | £225 |
| JBL Control 5 Monitors (Boxed) | £265 |
| Mackie 1202 (Boxed) | £250 |
| Tascam 688 (Boxed) | £1095 |
| Fostex X15 Portastudio | £195 |
| Soundtracks MR Series 24:8:2 | £1299 |
| TL Audio dual valve mic pre amp di | £275 |
| Mackie 1604 (Boxed) | £625 |
| Steinberg Mixex + | £299 |
| E-MU Proformance piano module | £150 |
| Yamaha QX21 sequencer | £45 |
| Ibanez DD700 digital delay | £125 |
| Korg XEC 42 Componder | £175 |
| Audio Logic PA 88A Exciter | £199 |
| Akai XE8 Drum expander with cards | £250 |
| Aiwa XDS 1100 3 head DAT (boxed A1) | £699 |
| Deep Bass 9 | £350 |
| Fostex E16 + 4050 auto locator (excellent) | £1999 |
| Yamaha FB 01 synth module | £99 |
| Fostex 160 Portastudio | £250 |
| Alesis Midiverb XT | £165 |
| Tascam 38 with 8 tk dbx noise reduction | £750 |
| Rockman Smartgate | £69 |
| Yamaha EMP 700 | £375 |
| Beyer DT190 Headphones | £140 |
| Studio Research 12:2 Mixing Desk | £199 |
| Teac X3 Open Reel Mastering Machine | £275 |
| Aphex Aural Exciter type B | £175 |
| Yamaha QY10 Portable Sequencer | £150 |
| Yamaha EMT10 Piano Module | £95 |
| Roland P330 Piano Module | £250 |
| Yamaha RX17 Drum Machine | £125 |
| Allen & Heath Mod 3 12:8:16:2 Mixing Desk | £699 |
| EMU Proteus 1 | £395 |
| Yamaha FX 500B | £199 |
| Yamaha GEP 50 Guitar Processor | £250 |
| BBE Maximiser | £175 |
| Yamaha GC2020 Compressor | £175 |
| DBX 224 X DS Tape NR | £135 |
| DOD R830B 2x15 graphic | £130 |
| Yamaha DPM7 mixer RTC 1 Remote | £699 |
| Atari Software 100's of titles, Crazy Prices | Call for List |
| Tascam M1016 Mixing Desk | £499 |
| Yamaha TQ5 Tone Module | £150 |
| Fostex R8 | £799 |
| Atari 1040 computers and monitors (choice available) from | £199 |
| Aiwa ADF 270 cassette mastering machine (boxed A1) | £75 |
| Fostex 4050 synchroniser/autolocator | £299 |
| Great British Spring reverb | £99 |
| Roland Pad 80 Octapad II | £375 |
| DBX SNR 1 | £145 |
| Korg M3R | £395 |
| Yamaha TG 55 (boxed) | £299 |
| Casio VZ8 + 1 RAM card | £199 |

DIGITAL

The Big Three!

TASCAM

DA-88 **£BEST**

Roland

NEW VS880 **£1499**

Fostex

DM24 + D80 **£1499**
 MODULAR 8 TRACK DIGITAL HARD DISK RECORDER

MIXING DESKS

ALL IN STOCK

ALESIS ✓ **BEHRINGER** ✓ **FOSTEX** ✓ **SAMSON** ✓ **SOUNDCRAFT** ✓ **SOUNDTRACS** ✓ **STUDIOMASTER** ✓ **TASCAM** ✓ **YAMAHA** ✓

SAMSON 244 24:24:24
STUDIOMASTER Vision 24:24:24
SOUNDTRACS 24:24:24
TASCAM M1016:24
YAMAHA 1200 MIX 01 PRO MIX 02
BEHRINGER EURODESK
SOUNDCRAFT SPIRIT FOLIO

OUTBOARD MIDI & H/D RECORDING

OTHERS YAMAHA LEXICON DIGITECH BEHRINGER ALESIS

D4 Digital Drum module
 New Microverb IV
 Midiverb 4
 Quadverb II
 Q2, MEQ 230
 J630 Compressor
 Monitor one

Dualflex II £129
Ultraflex II £215
Autocom £179
Composer £259
Multicom £259
Intelligate £259
Autoquad £349

TSR 12
TSR 24
 New Studio Quad
Vocalist II
Studio Vocalist

Vortex (new)
Jamman (new)
Alex Reflex
LXP 15 II
PCM 80

Rev 100 (new)
 EMP 100, EMP 700
 SPX 990, SPX 1000
 D5000 (new), REV 5
 M05 new tone module
 MU 80 new tone module
 TG500 tone module

Aphex C2 Exciter
£239
BBE Sonic Maximiser
SPL Vitaliser
 "All the sound you've never heard"

NEW E-MU HARD DISK SYSTEMS

NEW Alesis Q88 Synth SCALL

YAMAHA DV & W NAMELES ENCODING, SUBMIXER NEW PURPOSES PCSC SCALL

E-MU Systems
 Call for best deals

ESI-32 MORPHEUS | **VINTAGE KEYS New Orbit**

ATARI ✓ **COMPAQ** ✓ **IMC** ✓ **STEINBERG** ✓ **EMAGIC** ✓ **J. COOPER** ✓ **YP REES** ✓

Way Out West = Way Out £Best

PACKAGES

ALESIS | **STUDIOMASTER** | **WOW** | **£CALL**

A-DAT XT + MIXDOWN CLASSIC

TASCAM | **SOUNDTRACS** | **WOW** | **£5199**

DA-88 + TOPAZ II 24:8:2

FOSTEX | **WOW** | **£CALL**

812 + R8

TASCAM | **WOW** | **NEW D20 & DA30 II**

FOSTEX | **WOW** | **D5, D10 & D20**

0181 744 1040 MAIL ORDER HOTLINES 0181 744 1050

Digital DIY

► a Revox A77 via a Seck 18:8:2 desk, and as the synth and digital effects collection grew, we bolted on an Alesis 1622 mixer for extra inputs.

After our first two albums, we moved to digital mastering on a number of portable DAT recorders, before finally settling on a Sony DTC 1000ES modified for 44.1kHz operation. This DAT recorder also served to back up early experiments on Digidesign's Sound Tools system on a Mac IIcx.

Live instruments have always been a vital part of our sound, and although the M80 multitrack



Rick Bolton.

recorded acoustic and electric guitars well, and could manage the odd fretless bass, it really struggled with wind instruments like flutes, oboe and cor anglais. The sustained, pure waveforms of these instruments, which contain hardly any harmonics, often triggered an uncomfortable low grinding noise called bias bubble, and this was especially problematic in our gentlest, most ambient work, so I began to look for digital alternatives. As an interim measure, we improvised direct to DAT, editing the recordings in *Sound Designer II* on the Mac, then adding effects at the mixdown stage. But we soon tired of playing solos and duets, and it was then that the Alesis ADAT system came along and saved the day!

THE MOVE TO DIGITAL

ADAT was a major turning point. Here at last were perfect drop-ins, longer recording times, the possibility of making digital clones as backups or for alternative takes, and great sound. ADAT's clean recordings were a real joy, but soon began to highlight weak areas in studio acoustics and monitoring, revealing with perfect fidelity all the hiss, thumps, breathing, rumble and ambient noise that had previously been masked by the relatively high noise floor and distortions of analogue tape. To get around these problems, we had to make do with careful microphone placement, closing the double glazing, disconnecting the phone, and never recording during the rush hour, or when Concorde was due to fly over!

The most immediate effect of introducing the ADAT was to make me much more aware of the sound quality of the other components in the recording chain. Fortunately our mics were well up to the task: an old AKG C414 EB still sounded great on acoustic guitar and voice; and a newer C460 with a hypercardioid capsule was clean and noise-free for recording a full flute sound without too much of the room's acoustics. The Seck and Alesis mixers had minimal EQ, but perfectly acceptable sound quality. The weakest links turned out to be:

- The sound of the recording room.
- Our monitor speakers (an old pair of IMF ALS 40s).
- High-frequency losses in a long loom between the Seck mixer and the ADAT.

My engineering method in the Symbiosis studio has always been to record the instruments as cleanly as possible, and then add reverb later, using units like the Alesis Microverb II and Quadraverb. The ADAT recordings made it clear that there were far too many HF reflections in our 13-foot square room, colouring the sounds of some natural instruments before they even

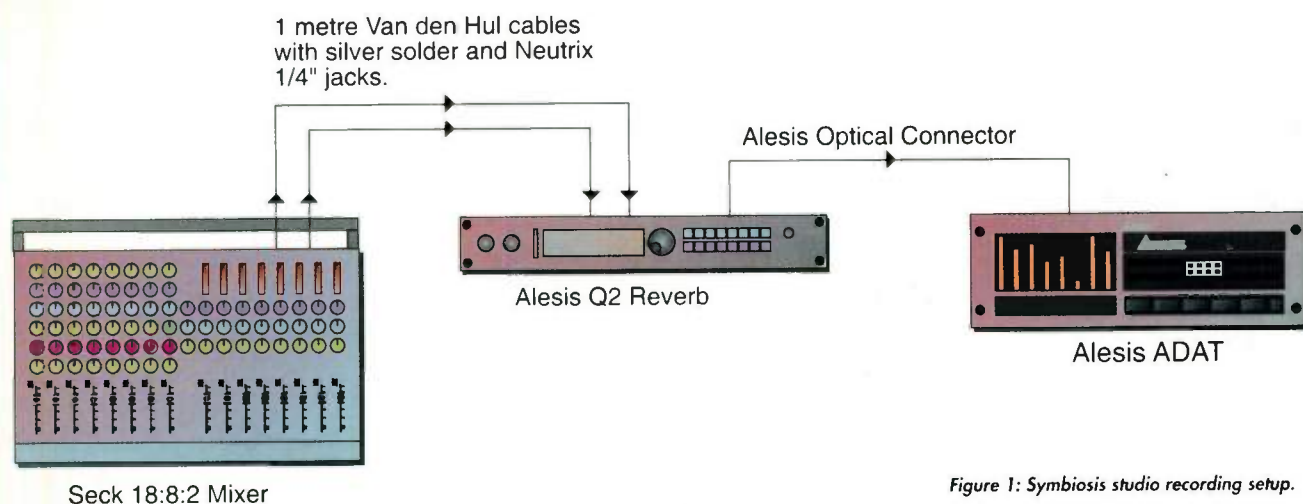


Figure 1: Symbiosis studio recording setup.

SYMBIOSIS LINEUP

- **RICK BOLTON**

Acoustic & electric guitars, STEPP synthesizer, guitar and cello.

- **JOHN HACKETT**

Flutes and keyboards.

- **EMILY WILLIAMSON**

Flute and vocals.

- **CLIVE WILLIAMSON**

Keyboards, wind synthesizer, autoharp, ethnic flutes, hand percussion, voices and whistling.

With help from: Ashley Drees (cittern, mandolin, mbira, percussion); Michèle Drees (drums and percussion); Rupert Flindt (fretless bass); Maloviere (violin and tsimbala) and Ian Ritchie (soprano sax).

reached the digital effects. I placed an order for some acoustic tiles, and we velcro'd these around all the available wall space to reduce high-frequency ringing and spurious reflections.

Studio monitoring was also improved by the addition of the foam tiles, but I felt we could go further. After many listening tests, we purchased a pair of the Professional Monitor Company's AB1 loudspeakers. Mixes on these speakers seem to sound superb on most other equipment; after the ADAT, they are definitely the best things we've bought for the studio. Room acoustics and speakers dealt with, that just left the loom problems to be sorted out.

MAKING THE RIGHT CONNECTIONS

One of the most exciting developments in music technology in recent months has been the shift towards fully digital mixing desks, led by the Yamaha Q2R, but I realised that we couldn't possibly justify buying one, so I started to look for cheaper ways to maintain recording quality. Going digital as early as possible in the recording chain seemed to be the order of the day. The release of the Alesis Q2 reverb provided the perfect answer, and solved our loom

problems at the same time.

Besides offering really clean reverb and effects, Q2 was designed from the start to link in digitally with the ADAT. Our current recording setup (see Figure 1) uses hi-fi cables (kept as short as possible) between the Seck 18:8:2's Track 1 and 2 outputs and the Q2, and a direct optical link from the Q2 to the ADAT. Once the recorder is switched to Digital In, the Q2 in bypass mode (Preset 99) acts as a switching matrix to any two of the eight available tracks, and the analogue signal only has to travel down one metre of high-quality cable!

Recordings made this way sound much sweeter and clearer at the top end, with the bonus that the Q2's settings can be edited to provide instant digital EQ on recordings. Used as a high-pass filter, low-frequency rumble can be rolled off before it gets to the ADAT, and much more precisely than with the low filters built into our AKG mics. The Q2 can also store a range of 'instant EQs' for any instrument regularly used by the group. Major equalisation changes are still left for the final mix, but the results going to tape are much more controlled. It's just a shame that the Q2 doesn't have any compression or peak limiting functions to prevent accidental clipping — but you can't have everything. Results through the mixing desk were further enhanced by throwing out our old 16-way loom altogether, and making up short-run good quality cables to get signals back from the ADAT's outputs to the desk.

ADAT TO ADAT XT?

Another important reason for getting a Q2 reverb was its ability to act as a digital router for track-bouncing on the ADAT without the greater expense of buying a BRC. The unit is relatively easy to use in this way with a single ADAT recorder, needing only a two-way optical link to be established (see Figure 2). The ADAT must act as the clock source for the Q2, which is achieved by the following switching sequence:

- Set Q2 to Preset 99 'Bypass' and make sure the direct signal is ON (Global menu);
- Set ADAT clock source to Internal;

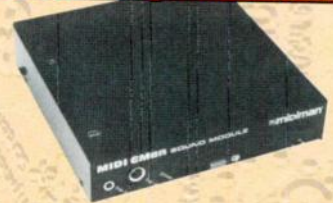
DIGITAL — A CHANGING PERSPECTIVE

One of the major bonuses of combining real instruments and MIDI gear in our original analogue studio was that most of the sound sources went through the desk 'live' at mixdown. So it was relatively easy to master tracks to a very high standard. Now we are working with the clarity of digital recordings on the ADAT and better reverbs like the Q2, some of the old synthesizers are being shown up by their quantising noise, or lack of high-frequency

sparkle. (I'm thinking now of our much-loved D550 and TX7 modules, and even the Korg M1R.) We've had the chance to try the Alesis Quadrasynth Plus Piano, the Yamaha VL7 and the Roland JV1080, all of which really do 'shine' in a mix, but I can't help wishing that more instrument manufacturers had followed Alesis's lead and begun to put digital outputs on their products sooner. In a few years — when we're all using digital consoles — I bet we'll all be sorry!

midiman
GUARANTEED FOR LIFE
**MORE SOUNDS
LESS POUNDS**

£199 rrp inc VAT



Hot off the production line from MIDIMAN comes GMan, which with or without a computer is arguably the best GM/GS compatible sound module in its class. With incredible sounds and effects just look at these features and compare it with the competition.

GMan offers the ideal low cost solution to multimedia users, home enthusiasts, MIDI file users and anyone wanting a great GM/GS expander at an affordable price.

- * Fully GS / Sound Canvas compatible
 - * Built in Mac interface with serial thru
 - * When connected to a PC sound card (cable not included) GMan becomes an external wave table synthesizer for your PC
 - * Built in Stereo MIX IN and MIC IN
 - * Stand alone module with MIDI out
 - * Standard stereo Outs and multimedia 1/8" output
- * Steel construction. Lightweight but built to last.

£69 inc VAT



Running out of inputs? MIDIMAN'S Multimixer 6 could be the answer to your problems. An ultra compact, ultra quiet 6:2 line mixer that fits in the palm of your hand. All for an amazing £69

£199 inc VAT



Also available is the Micromixer 18 line level mixer, with a massive 18 inputs, 2 sends and an ultra quiet signal path. Rackmountable (on optional rack tray) it is amazing value at £199

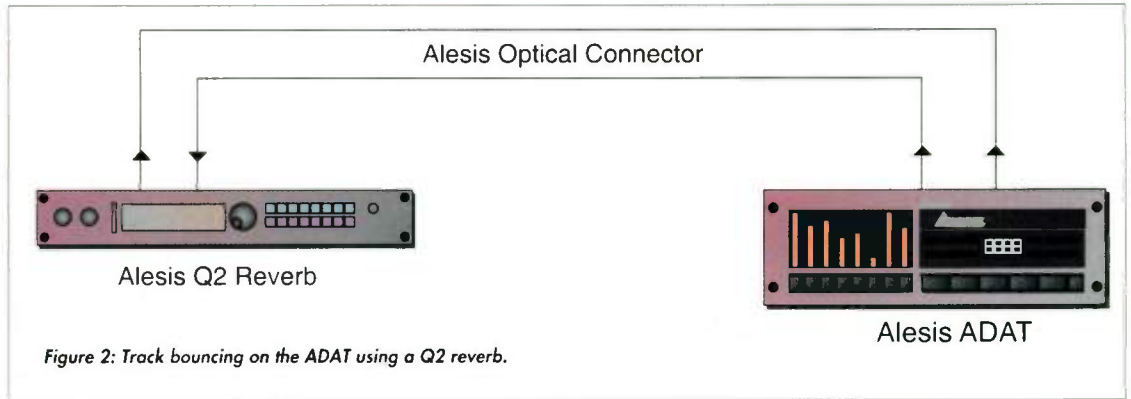
"Sturdy build quality, low-noise performance... plenty of inputs for their modest price tags"

Derek Johnson Sound On Sound May'96

ALSO FROM MIDIMAN
PC INTERFACES, MAC INTERFACES,
SYNCHRONIZERS
MIDI ACCESSORIES AND MORE

Call us for full information or contact your nearest dealer.
MIDIMAN UK, Hubberts Bridge House,
Hubberts Bridge, Boston, Lincs PE20 3QU.
Tel: 01205 290680. Fax: 01205 290671

Digital DIY



- ▶ • Set ADAT to Digital In;
- Alter Q2 to Optical Input and optical clock source (Global menu);
- Select incoming and outgoing tracks for ADAT on Q2 (Global Menu);



Clive Williamson.

• Prime 'record ready' on the relevant tracks, and check signal. Once this is done, you can bounce signals from track to track cleanly, one or two at a time. You can also select any Q2 patch to add EQ, effects, or delay during the bounce. It's important to know that the Q2's meters only display anything sourced from channels 1 and 2 when used this way, so it's best to look at the ADAT's input metering to check things are working properly.

Anyone owning the newer ADAT XT won't be so interested in these features, but for the thousands of original ADAT users, the Q2 really is a sensible upgrade, especially as its A/D converters are better than those in the first-

generation ADATs, and match those of the XT, being 18-bit and 128x oversampling.

DIGITAL BUILDING BLOCKS

After ADAT, we added an Alesis AI-1 digital interface and sample rate converter to allow sound to be transferred digitally from any source, or moved between the 8-track and *Sound Designer II* software via an Audiomeia II card on the Mac. This instantly gave us the freedom to improvise onto the ADAT, then edit two adjacent tracks in *Sound Designer*, pass them back digitally and use that as the starting point for new pieces. Used this way, Digidesign's software often reverts to its original function — that of sample editor — giving us the chance to alter pitch, edit, blend and even turn sound round without any quality loss. Interestingly, it has proved possible to use the AI-1's sample rate conversion facility over a very wide range, and signals fed out of the Audiomeia II at a playback rate as low as 1kHz (a drop of over five octaves!) are still converted to 48kHz on the ADAT without any problems.

Audiomeia's co-axial S/PDIF outputs have

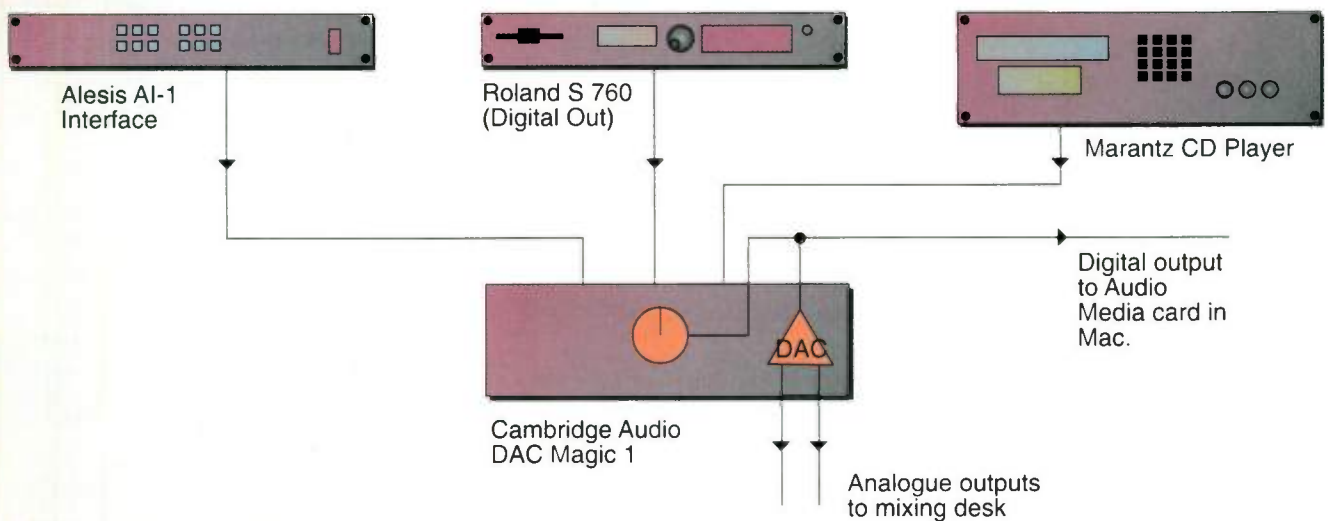


Figure 3: Using the DAC Magic as a digital router.

The DAC Magic shows sample rate, copy prohibit and emphasis status of the incoming digital signal.

SYMBIOSIS STUDIO TIPS

PERSONALISE YOUR MUSIC

We're all using the same synthesizers, so...

- Don't just use your synthesizer's presets! Collect the largest palette of sounds possible, and create or edit your own voices for your instruments.
- Don't restrict yourself to a five-octave keyboard — get a larger one, transpose, or tie two together through a sequencer.
- Use keyboards and drum pads with a sensitive velocity response, and if necessary use your sequencer to edit the response to suit you!

THE BEST FROM DIGITAL EFFECTS

Acoustics can have a tremendous influence on how we play...

- Make notes of reverb and effects settings for live players, so you can re-create the space they heard whilst recording when you do the final mix, to make full sense of their performance.
- Commit complex sounds to tape, so as not to lose the special quality that you spent hours working on (thanks to Nick Magnus for reminding me of this one!).
- Be aware that digital effects often sound very different in mono, so check their mono/stereo compatibility.
- Remember that most effects units can be controlled by MIDI during mixdown!

THE HUMAN TOUCH

Digitally-generated sound can have a sterility which tires the ear, so...

- Take care when using sampled sounds, especially in loops or as the lead line.
- Remember that many synthesizers have a greater variety of tone and modulation than samplers, and session players — especially percussionists — can add even more 'human touch'.
- Make full use of MIDI controllers — Mod wheels, aftertouch, MIDI volume.
- Use more expressive synths (especially a wind synth with breath control).

DIGITAL TIPS

- Always master at the final sampling rate for the product (eg. 44.1kHz for an Audio CD, 48kHz for a mix to be transferred to ADAT).
- As digital systems become more complex, you need to develop 'Clock Awareness' (ie. know which equipment should generate the master digital clock, and which should slave to it — horrible clicks or the ADAT changing speed are signs that you've got it wrong!).
- Watch for equipment noise build-up when making multitrack mic recordings near a hard disk or computer-based system.
- Check your mixes on headphones if you think equipment noise in the mixing area might be masking low-level problems.
- Always back up your computer work.
- Try creating a MIDI backing mix on two tracks, then record instruments elsewhere, using 'real' acoustics.



Symbiosis flautist John Hackett in an anechoic chamber at the BBC's Research Establishment at Kingswood Warren. The complete lack of reflections from the walls makes it very difficult to play, and shows how useful digital reverbs can be to create a good acoustic environment in the studio.

proved useful for interfacing directly with equipment such as DAT recorders and a Roland S760 sampler with the OP760/1 output board fitted, and also with another handy building block in the Symbiosis digital studio: a Cambridge Audio DAC Magic 1. This is actually a hi-fi component offering a very good quality D/A converter at a reasonable price (under £200 from some

outlets) with three switchable co-axial inputs, one co-axial digital output and line outputs from the D/As on both phonos and XLR sockets. We use DAC Magic as a digital signal router and listening point, saving lots of re-plugging, and augmenting by two the existing four separate outputs from the excellent S760. One of the two extra digital outputs from the 760's I/O board is

MIDIMAN[®] GUARANTEED FOR LIFE SYNCHRONISATION SOLUTIONS SYNGMAN £99



Full SMPTE Synchronisation for under £100. SMPTE/MTC, Jamsync, Merge, Duplicate, all frames.

When it comes to Synchronisation, MIDIMAN have got all bases covered. Smart FSK, SMPTE, Rack mounted SMPTE, VITC for video, PC cards with VITC + SMPTE. Since 1988 MIDIMAN have grown through providing high quality products at affordable prices all backed by a lifetime guarantee. Check out what we have to offer.

VIDEO SYNGMAN £399



World's first Universal Timecode Translator supports VITC, LTC, MTC. Even has a built in screen burner. Professional features at an affordable price. Settings can be controlled through the Included Mac & PC utility software. Half rack size.

SYNGMAN PRO £299



Comprehensive professional rack mount Sync Box, with SMPTE Regeneration, Spotlock™ Videosync, built in SMPTE display, 768 MIDI Foleyhit map and much more.

VIDEO PRODUCER £179

New PC VITC card that allows any MTC Sequencer to be locked to any Video Recorder. Many other facilities including screen burn & CUE catcher software.

WINMAN 4X4S £199

4 Independent Midi ins & 4 Independent Midi outs (64CH) + MIDIMAN'S acclaimed SMPTE synchronisation chip all for £199

NEW



SMARTSYNC £79



Ultra reliable smart FSK Songpointer Sync Box with built in merge & Jam Sync

ALSO FROM MIDIMAN
PC INTERFACES, MAC INTERFACES,
COMPACT MIXERS, SOUNDMODULES,
MIDI ACCESSORIES

Call us for full information or contact your nearest dealer.
MIDIMAN UK. Hubberts Bridge House, Hubberts Bridge, Boston, Lincs PE20 3QU.
Tel: 01205 290680. Fax: 01205 290671

Digital DIY

SYMBIOSIS GEAR

KEYBOARDS & CONTROLLERS

- Alesis QuadraSynth Plus Piano
- ARP Odyssey
- Casio CZ1
- Roland Octapad II
- Yamaha MCS2 + footpedals
- Yamaha WX11 wind synth

SYNTH MODULES

- Kawai K1m
- Korg M1R
- Roland D550
- Roland D110
- Roland S760

- Yamaha TG77
- Yamaha TX7
- Yamaha WT11

DRUM MODULES

- Alesis HR16
- Alesis SR16
- Roland R8M

EFFECTS

- Alesis Microverb II
- Alesis Midiverb II
- Alesis Quadraverb +
- Alesis Q2
- Roland VP70
- Yamaha SPX90
- Zoom 9001
- Zoom 9002

- Zoom 9050

COMPUTERS & SOFTWARE

- Apple PowerMac 8100/80 AV
- Atari STE (2Mb of RAM)
- C-Lab Notator
- C-Lab Unitor-N
- C-Lab Combiner
- Yamaha YSTM10 speakers

RECORDING

- Alesis ADAT
- Alesis AI-1 Interface
- Alesis 3630 Compressor
- Alesis 1622 Mixer

- JL Cooper SyncMaster
- JL Cooper dataMASTER
- Seck 18:8:2 Mixer
- Sony DTC8 DAT
- Sony DTC7 DAT

MONITORING

- PMC AB1 loudspeakers
- Quad 4052 amp

DIGITAL EDITING

- Cambridge Audio DAC Magic 1
- Digidesign AudioMedia II
- Digidesign Sound Designer II
- Emagic Logic Audio
- Marantz CD52SE CD player
- OSC Deck II

▶ permanently plugged to a DAC Magic input, and the D/A outputs appear on two channels of the mixing desk (as shown in Figure 3).

The final elements in our digital studio are a JL Cooper SyncMaster (for synchronising the Mac to SMPTE timecode), a JL Cooper dataMASTER (which generates SMPTE from the ADAT without wasting a track to record it) and a Sony DTC8 DAT machine, replacing our DTC1000ES. All our music is now mastered onto the A8 using its Super

CREATIVITY & THE DIGITAL STUDIO

Recording studios have always been places where things can go horribly wrong, and the more complex we make them — with MIDI and digital connections — the more frustrating the problems can become. We're trying to link pieces of equipment from so many different manufacturers to make them do something new and wonderful with sound, only to discover that often the system doesn't work as it should, and no-one can tell us why! One major snag with today's technology is that it develops so fast that there is barely enough time to assimilate the possibilities offered and techniques required by one bit of gear before we have to move on to the next. The only answer seems to be to alternate technical 'learning and editing' sessions with creative 'writing and recording' ones, so that the frustrations of the former don't taint the exciting potential of the latter. Above all, we need to test equipment well before we buy it, and make sure that we can work easily and intuitively with it.

A word of caution on the subject of the potential offered by today's technology was once offered to me by Bob Moog: "Everybody has certain reservations about how easy it is now to make sounds, and put sounds together into something that appears to be music. But it's just as hard as it always was to make *good* music. One always has to remember where the garbage pail is." SOS



Ashley Drees and John Hackett.

Bit Mapping option, which seems to impart a richer, 'firmer' quality to the work, and provides a much better sense of space at low listening levels. As we bought one of the first A8s in the country, even our supplier didn't know that the machine suffered from the dreaded SCMS (Serial Copy Management System), but copies can still be made via the digital inputs of Audiomedia or the AI-1, both of which strip off the copy-protection flag set in S/PDIF signals!

I should also mention that I've also upgraded the Mac IIcx to a PowerPC 8100/80 with a 1Gb AV hard drive to cope with digital image-handling for album cover design, and we have recently obtained OSC's *Deck II* and Emagic's *Logic Audio* in the hope of further integrating MIDI recording with hard disk editing and mixing.

Next month, Clive Williamson describes the processes of preparing a CD master, burning recordable CDs, and designing album sleeves for Symbiosis with the help of computers.

- A** Symbiosis Music, PO Box 2000, Richmond, Surrey TW9 3JH.
- T** 0181 948 5880 (10-6pm Mon-Fri).
- F** 0181 255 7102.

Info



IT CAN
TAKE
WHATEVER
THE
TOUR
CAN
THROW
AT IT

The new WMS 300 brings breathtaking UHF radio microphone performance to the road at a breakthrough price. With instant flexibility no other radio mic system can touch.

Three interchangeable dynamic and condenser heads; a choice of handheld transmitter or bellpack; and vocal, instrument or lavalier systems, let you match the microphone to the production every time.

To make life easier on the move a simple adjustment on the receiver allows you to switch to any one of 16 spot frequencies within a UHF TV channel, with the ability to run up to eight systems simultaneously without intermodulation. You get a total system solution that includes active antenna splitters and boosters and a receiver that can be run on either AC or DC voltage.

Then take a look at the exceptional features. Up to 12 hours' battery life from three AA cells, a compact 1/2U true diversity receiver unit and, of course, AKG's precision audio quality, rugged durability and backup as standard.

Based on the hugely successful WMS 900 system (tours include Peter Gabriel, Rod Stewart, Wet Wet Wet and 1996's Simply Red dates), the WMS 300 is a total solution at a brilliant price with the handheld system starting at £869.00. Truly a radio microphone system to take anything a tour can throw at it.

wms 300 ^{UHF} RADIO MICROPHONE SYSTEM

TO HEAR HOW ACOUSTIC PERFECTION IS NOW WITHIN YOUR REACH, LISTEN TO US ON 0181 236 7247



WMS 300 FEATURES

- **SR 300 RECEIVER:** Switchable to 16 UHF frequencies for multichannel capability • Half 19" rack width • True diversity operation • Removable antennas.
- **PT 300 HANDHELD TRANSMITTER:** Interchangeable microphone heads • Highly efficient helix antenna for wide range • Extremely rugged construction • Special capsule suspension minimising handling noise.
- **PT 300 BODY-PACK:** Accepts dynamic and condenser microphones • Mic, mute or line selector for guitar, sax or lavalier options • Locking microphone input • Exceptional operating time. WRH

WMS 300

FROM **£869.00** WITH
 — HARMAN ASSURANCE —
 — PREMIUM QUALITY —
 — FULL TECHNICAL SUPPORT —
 — RELIABLE SERVICE —

H A Harman International Company

Harman International, Harman International Industries Limited
 Unit 2, Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts WD6 5PZ, England
 Tel: +44 181-207 5050 Fax: +44 181-207 4572

MUSIC CONNECTIONS

ALL PRICES INCLUDE VAT.

novation



£449

NOVATION

The DrumStation features authentic TR808 & TR909 sounds, 12 note polyphony, front cut edit, switchable note off recognition, distortion effects, DIN Sync trigger output and the list goes on. The Bassstation has Oscillator control, envelope editing, filter and Portamento to add deep and tight bass. 100 memories are available, 60 for the user and 40 for factory presets. For ease of use and quality output the Bassstation is the height of analogue technology.

DIRECT FACTORY PRICES

PROTONE

Will this possibly become the MINI MOOG of the future and the product of the decade? For the player who wants to get back to basics we believe there is no finer product made today. The new PROTONE from Switzerland gives you all the versatility of synthesizers from a bygone age with none of the unreliability. If you know your synthesis you certainly won't want to miss this one. CALL FOR DETAILS

PROTONE



GROOVEBOX

448 sounds-12 drum kits-13 part multitimbral 28 voice-multipleffects-8 track, 10 song sequencer & so on. If you think your groove, you haven't started until you try the new MC303.



SG01

SG01

Who would have thought a company as young in the Music Industry as AKAI could come up with a vintage module? Well they have and it's brilliant, and it's only £299.

AKAI



JV-1080

JV1080

The roland JV1080. What can one say about this industry standard piece of kit. Except that it is a must for any serious musician.

Roland

YAMAHA CS1



CS1x Control Synth. 480 voices-21 Drum kits-128 Presets-128 user performances-4 simultaneous effects-arpeggiators with 20 patterns-all this for £599. Sorry, we forgot 6 real time controller knobs. Now that's what we call control!

YAMAHA W7



£999

INCLUDING VINTAGE BOARD

All you need for your composing, arranging and performing is delivered in one powerful, flexible and easy to use instrument. 100, 000 note sequencer, large LCD display, 8 meg of top quality AWM2 sounds, advanced 3 insertion and 3 system effects. Bundled with the popular 4 meg Vintage board.

Roland XP-10

XP-10

An ideal entry level synthesizer with an extensive range of basic functions to enhance performing and creating music at home. With built-in computer interface, combination palette, advanced arpeggiator and X-dual key mode this is unbelievable machine not to be missed!

Roland XP-50

XP-50

64-voice music workstation that can accept up to four SR-JV80 series wave expansion boards at one time. Immediate response from a 32-bit RISC chip for more realtime potential and expressive power needed for recording and performance. New model now available: XP-10 CALL FOR DETAILS



£1099

S2

£1299

S3

General Music S2 & S3 At this price you can't afford to buy any other workstation. This keyboard includes so much specification it's possible that a keyboard of this caliber will never be available again. DON'T BE DISAPPOINTED STOCKS ARE LOW CALL TODAY!

WE WILL NOT BE BEATEN ON PRICE!

THE UK'S ULTIMATE RECORDING & MIDI SPECIALISTS

MUSIC CONNECTIONS

Music Connections direct factory policy.
As music connections has grown foreign manufacturers have realised that we sell so much hi-tech equipment that we might as well sell their equipment direct for them. so when you see the sign, direct factory prices you are buying the equipment at prices normally offered in their home market. more importantly there is no distributor profit margin on this product. as a customer you really are getting exceptional value! so look for our direct factory prices logo.

QUASIMIDI

50% Cheaper made in Germany



RAVEN
32 Midi channels, Arpeggiator, 2 built-in DSP effects, 512 single sounds, 200-RO performances, 50 RAM performances, 400 Grooves built-in across 8 assignable parts and interactive control of mixing. Unbelievable to hear!



TOTALLY NEW. TOTALLY AWESOME!
WE KNOW, WE'VE HEARD IT!

MR RACK

- 64 Voices
- 12 Meg Wave ROM Expandable to 84 Meg
- 2nd generation Transwaves
- 44.1 kHz Output
- 4 Outputs
- All new ESP-2 effects
- Soundfinder
- GM Compatible



A91 EX

8 key-board zones (4 internal/4 external)
Patch name display, creations patch list, of the ROLAND JD-990, JV-80, Sound Expansion Series, JV-series, SR-JV90-series expansion boards as well as GM/GS sound sources.
Sequencer control section allowing control of selection, tempo, and other parameters.
Global Transpose transposes all connected sound sources without changing the transpositional relationship between individual devices.
Multiple controllers and a Total Volume Slider etc...
CALL FOR AN UNBELIEVABLE DEAL!

KORG

TRINITY NOW AVAILABLE

TRINITY

New from KORG 4 new expandable keyboard-workstations. Touchview graphical user interface. Access and Mass sound sources. Ability to load AKAI Samples Integrated Hard Disk recorder. Great effects and controllers. Must be seen & heard to be believed! Great sounding prophecy board available.



THE PROPHECY

Uses the new Multi-Oscillator Synthesis System providing 7 oscillator types created through five different synthesis techniques including analogue and physical modelling. 7 built-in effects including Distortion, Wah, Delay and reverb. Can you keep up with it?

nord lead

THE NORD LEAD

The Prophecy's rival in synthesizers. Using virtual analogue sounds the Nord Lead is fast becoming the industry standard. Also soon to arrive is the 8-voice expansion card that expands your Nord to 12 voices. On demo in all of our stores!
UPGRADE YOUR NORD TO VERSION 2.0-More arpeggiator effects, additional mid features, new filter option, echo effect, 100 new performances etc.



YAMAHA QY700

Roland A90/EX



MIDI Solutions Inc.

DIRECT FACTORY PRICES

MIDI SOLUTIONS

Whether you need to merge 2 MIDI ins together or provide 2 MIDI thrus, MIDI SOLUTIONS has a unit for you. CALL FOR DETAILS.

| | |
|--------------|-----|
| 2 * MERGER | £49 |
| QUADRA MERGE | £79 |
| 2 * THRU | £29 |
| QUADRA THRU | £39 |

ORBIT

- 512 Presets (256 Rom, over 500 samples)
- 32 6-pole digital resonant filters (16 types; low, high, and band pass, phaser, flanger, EQ, Morphing and more)
- MIDI synced LFO's
- Beats mode (with control over tempo, transposition, preset and more), loops that aren't going to sound like everybody else.
- 16 part multi-timbral, 32 voice polyphony and 6 audio outputs
- Launch pad ready

Chelsea

MUSIC CONNECTIONS
202NEW KINGS ROAD
CHELSEA
LONDON, SW6 4NF
☎: 0171 731 5993
☎: 0171 736 4771
FAX: 0171 731 2600

Chelmsford

MUSIC CONNECTIONS
ROBJOHNS ROAD
CHELMSFORD
ESSEX
CM1 3AG
☎: 01245 354 777
FAX: 01245 355 007

Birmingham

MUSIC CONNECTIONS
CROSBY COURT
GEORGE STREET
BIRMINGHAM
B3 1QG
☎: 0121 212 4777
FAX: 0121 212 4877

Southampton

MUSIC CONNECTIONS
KINGSGATE
ST. MARY'S ST
SOUTHAMPTON
SO1 1NF
☎: 01703 235 441
FAX: 01703 235 266

Bristol

MUSIC CONNECTIONS
91 THE MALL
CLIFTON VILLAGE
BRISTOL
BS6 4JG
☎: 0117 946 7700
FAX: 0117 946 7600

THE BIGGEST AND BEST RANGE OF STOCK IN THE UK

MUSIC CONNECTIONS

ALL PRICES INCLUDE VAT.



YAMAHA



Open system for Compatibility. The O2R features an "open system" for compatibility with all major industry-standard digital audio formats: TASCAM (TDIF-1), ADAT, AES/EBU, and Yamaha. Optional I/O interfaces allow the O2R to be easily integrated with any digital recorders, whether tape based, or Non-linear "Hard-disc or Magneto optical".

NEW FROM TASCAM

This desk is so new, we haven't even managed to get a picture of it. But by the time this goes to print we will have it in stock!

The M1600 series recording console is designed to complement the new generation of modular digital multitracks and hard disk recorders.

FEATURES:

- 16/24 channel in-line design
- 8 XLR MIC inputs inc. high performance preamplifier circuitry
- Phantom power
- TRS balanced line input on each control
- Balanced/unbalanced tape returns via D-sub connectors
- Signal present/overload LED on each channel
- 3 band assignable EQ with sweep mid-range
- Tape/Channel monitor output assignable to AUX 1/2
- 1 Stereo and 4 mono AUX sends
- 4 fully assignable Stereo Aux Returns
- In place solo
- Mute switch on every channel
- Insert point on every channel
- Balanced group/direct outputs via D-sub connectors
- 2 track input
- Stereo sub input
- Optional Meter unit (included in price)
- Optional expander



TASCAM

DIRECT FACTORY PRICES

16 Channel including meterbridge £1399
24 Channel including meterbridge £1699

MACKIE

Full range of Mackie in stock: from 1202 to 8 Bus.

ULTRAMIX PRO

Automation system for Mackie desks, complete with remote fader, software and 34 channel VCA unit.

MACKIE 8IBUS

The ultimate expandable mixing system that the pro's use. Perfect for use with ADAT or DA-88. Now available, automation for 8-BUS Mackies including Mac software. Call for more details!



Music connections have done it again. Last year we teamed up with TASCAM to bring you a great deal on all their multitrack recorders. This year we're bringing you their great 2600 series recording console. The features are too numerous to list here so call any one of our stores listed below for a list of the specs. However the greatest deal is the price which is as follows:

16 Input: List £2499
Our price £1195.
24 Input: List £3299
Our price £1595.
32 Input: List £3500
Our price £1995.

PROMIX

16 Input channels with gain trim & pad, Stereo Input channel, Stereo mix/cue/2-track recorder monitor functions, Analog 2-track IN/OUT for stereo recorder, 4 fader groups, Cue function, 4 aux sends, motorized faders, 33 position pan control, LCD display and available in rackmount form.

DIRECT FACTORY PRICES



ROLAND M160 Mk II - £299

16 Channel Rackmount mixer with faders, balanced outputs, 4 aux returns and individual gain. The ideal mixer for keyboard set-ups.

DIRECT FACTORY PRICES

The DCP-8

£749

£93.62 per channel!

- 8 Compressors
- 8 Gates
- 8 Automated fader channels
- 8 limiters
- 8 mutes
- All Under Digital Control
- Only £79.68 a channel

The ACP-8

£74.87 per channel!

- 8 Compressors/limiters/gates
- Side chain on every channel
- Trigger inputs on all channels
- Balanced/Unbalanced I/O
- Hard/Soft Knee Compression
- Variable Attack & Release
- Variable Gate Close
- Only £63.72 a channel

PreSonus

Audio Electronics

£599

IF YOU HAVE A RECORDING STUDIO YOU NEED AN ACP-8.
IF YOU HAVE A PROJECT STUDIO YOU NEED AN ACP-8
IF YOU HAVE A P.A. SYSTEM YOU NEED AN ACP-8



ELECTRONIC MUSICIAN
1996
EDITORS CHOICE

DIRECT FACTORY PRICES

£129



ALLEN & HEATH

£1495

ALLEN & HEATH

GS1

GS3

WE WILL NOT BE BEATEN ON PRICE!

THE UK'S ULTIMATE RECORDING & MIDI SPECIALISTS

Music Connections direct factory policy.
 As music connections has grown foreign manufacturers have realised that we sell so much hi-tech equipment that we might as well sell their equipment direct for them. so when you see the sign, direct factory prices you are buying the equipment at prices normally offered in their home market, more importantly there is no distributor profit margin on this product. as a customer you really are getting exceptional value! so look for our direct factory prices logo!

MUSIC CONNECTIONS



TASCAM



YAMAHA

WE CURRENTLY HOLD IN STOCK ALL YAMAHA PORTASTUDIOS AT GREAT PRICES. AS WE HAVE SAID BEFORE THIS IS THE YEAR FOR TECHNOLOGY TO GO MAD AND IN A COUPLE OF MONTHS WE SHOULD HAVE THE NEW MINI-DISC RECORDER. SO WATCH THIS SPACE!



DYNATEK

STRUCTURED FOR STORAGE

Whether for digital audio, video or sampling, Dynatek hard drives satisfy the demands for both studio and live environments. Your data integrity and peace of mind are assured when you choose Dynatek SCSI Mass Storage. THE FUTURE STARTS TODAY!

2 GIG DESKTOP DRIVE
 (with pro cables, software & discs.)

£599

1 GIG DESKTOP DRIVE
 (with pro cables, software & discs.)

£351

CD-ROM
 (with pro cables, software & discs.)

£139

230 OPTICAL DESKTOP
 (with pro cables, software & discs.)

£549

230 OPTICAL RACKMOUNT
 (with pro cables, software & discs.)

£599

270 SYQUEST DESKTOP
 (with pro cables, software & discs.)

£349

SYQUEST EASY DRIVES

£210



GEMINI

THIS NEW DRIVE IS CAUSING A SENSATION IN AMERICA. IT INCORPORATES A 650MB REMOVABLE OPTICAL AND A QUAD SPEED CD-ROM IN ONE UNIT. THE CD IS COMPATIBLE WITH ALL CURRENT SAMPLERS. AND WHEN YOU BEAR IN MIND HOW MANY DISCS YOU CAN SAVE ON ONE 650MB CARTRIDGE OVER THE COMING YEARS, JUST THINK HOW MUCH MONEY YOU'LL SAVE!

RECORDABLE CD-ROMS SUPPORTS DIGIDESIGN MASTERLIST PRO. DIGIDESIGN CD-ROMS WORK WITH ALL MUSIC APPLICATIONS UNLIKE CHEAPER IMITATIONS! RECORDABLE CD-ROM AT UNBELIEVABLE PRICES!

CDR 200
 Dual speed record, Quad speed read inc. software, cables & discs

£1049

CDR 400
 Quad speed read/write state of the art technology comes with pro cables, software and discs

£1395

DIRECT FACTORY PRICES

Chelsea Chelmsford Birmingham Southampton Bristol

MUSIC CONNECTIONS
 202 NEW KINGS ROAD,
 CHELSEA,
 LONDON, SW6 4NF.
 ☎: 0171 731 5993
 ☎: 0171 736 4771
 FAX: 0171 731 2600

MUSIC CONNECTIONS
 ROB JONES ROAD,
 CHELMSFORD,
 ESSEX,
 CM1 3AG.
 ☎: 01245 354 777
 FAX: 01245 355 007

MUSIC CONNECTIONS
 CROSBY COURT,
 GEORGE STREET,
 BIRMINGHAM,
 B3 1QG
 ☎: 0121 212 4777
 FAX: 0121 212 4877

MUSIC CONNECTIONS
 KINGSGATE,
 ST. MARY'S ST.,
 SOUTHAMPTON,
 SO1 1RF
 ☎: 01703 233 444
 FAX: 01703 233 266

MUSIC CONNECTIONS
 21 THE MALL,
 CLIFTON VILLAGE,
 BRISTOL,
 BS8 4JG
 ☎: 0117 946 7700
 FAX: 0117 946 7600

THE BIGGEST AND BEST RANGE OF STOCK IN THE UK

MUSIC CONNECTIONS

ALL PRICES INCLUDE VAT.



RAP-10

£125



MCB-10 INTERFACE £59



£760



FULL EMU RANGE IN STOCK AND ON SHOW AT ALL TIMES.

£499

£599

SPECIAL DEAL!
JS-30 & DYNATEK CD-ROM



AKAI



SCALL

The new AKAI samplers incorporating all the capabilities that have made the s3000 series the world standard for professional sampling, the new range add features like a powerful multi mode for ease of layering and multi-timbral sequencing, multi-effects card that provides four independent channels of effects, RAM expansion with readily available SIMM memory, flash RAM, MESA graphical Macintosh-based front-end etc.



ENSONIQ

- 88 key weighted or 61 key synth action keyboards, or rack version.
- Up to 31 voice polyphony
- Up to 16 MB memory
- Stimulus sampling at 44.1 and 29.76kHz
- Analog or digital input
- Sampling through effects
- Advanced resampling
- Imports Roland and Akai CD-ROM's
- 24-bit effects processor with 62 algorithms
- Virtual 16-track sequencer
- Digital audio recording
- "Play While Load"
- Bank loading of complete performance setups
- Easy sound layering and splitting
- HD disk drive/SCSI
- Up to 8 polyphonic outputs
- Patch Select buttons
- Optional digital I/O



Only at MUSIC CONNECTIONS!



Designed for realtime DJ applications and remixes, the JS-30 is ideal for phrase sampling, has the same highly acclaimed technology featured on the Roland S-770 and S-750 samplers and at £495 it's a real give-away. Up to 22.5 seconds of sampling is available with the standard 1 meg memory (upgradable to 4meg) and has SCSI as standard.

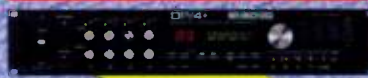
A R T
APPLIED RESEARCH AND TECHNOLOGY

If you have been in the music industry for a while, we are sure you have heard of the name ART. Recently art have totally overhauled their product range. Some of the existing products have been totally updated and some are totally new. Like their brilliant mic preamps for all price points & the great new effects network. Also the new progate is getting rave reviews in America. So if you're in the market for some new pro-audio equipment, give the new range of ART effects a try, you won't be disappointed!



ASR-10

ENSONIQ



- 4 Independent 24-bit stereo processors
- 4 inputs & 4 outputs
- Able to process 1,2,3 or 4 signals
- 54 algorithms
- 400 presets
- Seamless switching of effects
- Dynamic MIDI control
- Front-panel headphone jack
- Front-panel XLR
- Dedicated input & output volume knob
- 3-step input LED's
- +4/-10 dB switching
- Output mixing

DP4

DP2



The power and flexibility of Ensoniq's DP series effects in an affordable 2-processor unit.

Lexicon



ALEX & REFLEX
BEHRINGER



COMPOSER
DRAWMER



DL441

ALESIS



MIDIVERB 4

BOSS



SX-700



VITALIZER



Roland

SDE-330



SRV-330

WE WILL NOT BE BEATEN ON PRICE!

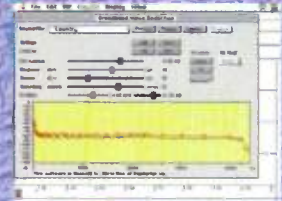
THE UK'S ULTIMATE RECORDING & MIDI SPECIALISTS

**PRO
TOOLS**



Music Connections direct factory policy.
As music connections has grown foreign manufacturers have realised that we sell so much hi-tech equipment that we might as well sell their equipment direct for them. so when you see the sign, direct factory prices you are buying the equipment at prices normally offered in their home market. more importantly there is no distributor profit margin on this product. as a customer you really are getting exceptional value! so look for our direct factory prices logo.

MUSIC CONNECTIONS



DINR - Software
Noise reduction
plug-in for
Sound designer
II

**digidesign
steinberg
1996 windows
tour**

FEATURING AT THE FOLLOWING VENUES:

MUSIC CONNECTIONS BRISTOL
3 MAY 19.00

MUSIC CONNECTIONS CHELMSFORD
16 JUNE 19.00

MUSIC CONNECTIONS SOUTHAMPTON
7 MAY 19.00

digidesign®



The Digital Audio Revolution continues...on the Windows Platform

You Could Always Hear What AKAI Did
For Your Music...
Now You Can See It.



DR16
Familiar MTR style operation with dedicated controls.
16 tracks on one HD
25 minutes recording time per track
16 channels of automated digital mixing & optional EQ
Powerful on-board non destructive editing with undo
Accurate audio scrubbing via jog/shuttle controls

We have superb package deals available on these products, PLEASE CALL FOR DETAILS.



DR8
8-track version of DR16.

AKAI



**LAST OF THE STUNNING CBX-D5'S AVAILABLE!
CALL FOR ALL CURRENT PACKAGE PRICES BUT HURRY LIMITED STOCKS!**

VS-880 Roland
Digital mixer incorporating 14 input channels, digital EQ, 2 stereo busses and 8 recording busses.
64 tracks of 16 bit CD quality
44.1kHz direct to disk recording technology with full digital mixing capability, automation, optional built-in digital FX processing, storage to either internal IDE or external SCSI drive and back up to DAT in only 1.5 times actual recording time.

VS8F-1 £349
Optional effects expansion board.

THE PRODUCT OF '96

Chelsea

MUSIC CONNECTIONS
202 NEW KINGS ROAD
CHELSEA
LONDON. SW6 4NF.
☎: 0171 731 5993
☎: 0171 736 4771
FAX: 0171 731 2600

Chelmsford

MUSIC CONNECTIONS
ROB JOHNS ROAD,
CHELMSFORD,
ESSEX.
CM1 3AG.
☎: 01245 354 777
FAX: 01245 355 887

Birmingham

MUSIC CONNECTIONS
CROSBY COURT,
GEORGE STREET,
BIRMINGHAM,
B3 1QG
☎: 0121 212 4777
FAX: 0121 212 4877

Southampton

MUSIC CONNECTIONS
KINGSGATE,
ST. MARY'S ST.
SOUTHAMPTON,
SO1 1HF
☎: 01703 233 444
FAX: 01703 233 266

Bristol

MUSIC CONNECTIONS
21 THE MALL,
CLIFTON VILLAGE,
BRISTOL,
BS8 4JG
☎: 0117 946 7700
FAX: 0117 946 7600

THE BIGGEST AND BEST RANGE OF STOCK IN THE UK

MUSIC CONNECTIONS

ALL PRICES INCLUDE VAT.

£149

TEAC

TEAC S300

LAST FEW AVAILABLE
Co-axial 2-way bass reflex
speaker system including sub-
woofer.



20/20 bas

BIAMPLIFIED MONITOR SYSTEM

- Internally BI Amplified with 200W Total power
- An active Asymmetrical Fourth Order Crossover that separates the line level frequencies prior to amplification.
- A 130 Watt Amp that receives only the low frequencies and is designed to perfectly match the 8" Mineral Filled Polypropylene Low Frequency Driver
- A 70 Watt Amp that receives only the high frequencies and is designed to perfectly match the 1" Natural Silk Dome Tweeter.
- A Large Diameter Low Air Restriction Front Mounted Bass Port for full, accurate bass response
- An intelligent combination XLR or 1/4" Input Connector
- Continuously Variable Precision Low and High Frequency Trim Controls
- Input Sensitivity Control and Clip LED Indicator
- Circuit Breaker (no looking for fuses in the middle of the night)
- Passive version also available

MASS TECHNOLOGY



MASS TECHNOLOGY Design to match and easily interface with all popular mixing consoles and includes both XLR and 1/4" Jack/Phono connections. Our amplifiers have special 'Pin-Fin' heatsinks to efficiently dissipate heat, this means that our amps are 'Fan-free' meaning no noise or interference. CALL FOR PRICES ON ALL MODELS.



EVENT



EVENT



ABFLECTOR £79.95
BASSTRAP £106
SKYLINE £66

Acoustic Tools

ACOUSTIC TOOLS

We are constantly amazed how many people spend fortunes on their recording equipment (especially their speakers) but then pay no attention to the acoustics of their studio-bedroom-lounge or wherever they happen to be recording.

Well we are here to help. RPG and Music Connections have teamed up to offer you the chance to actually hear your music as it really sounds. We can tailor a package to suit exactly the size and shape of your recording facility. Just think how impressed visitors will be, when they come to your studio and see you know all about acoustics.

Give us a call or visit our showrooms and see how we can effect your monitoring.

DIRECT FACTORY PRICES

for PROJECT STUDIOS



EXCLUSIVE

Westlake Audio



Lc 6.75

Features a unique intergration of crossover, cabinet and drivers that produce a rugged, attractive and cost effective unit while maintaining the sound characteristics so identified as the Westlake Sound.



BSM-4

The BSM-4 is a portable 3 driver unit, ported and featuring an internal high level crossover network. For accuracy and loudness the BSM's are hard to resist.

Westlake Audio strives to design and build loudspeakers that are as accurate to the source recording as currently possible given the existing level of technology and to research methods of improving this technology for future generations of loudspeakers.

Our responsibility to the customer is to provide products that not only meet our design goals for performance but also acheive a level of reliability that will ensure the enjoyment of our loudspeakers for years to come.

An acceptable level of performance and standard for reliability will only come from our own diligence in manufacturing which is ensured by the testing, retesting and further retesting of our products before they can be called Westlake Audio Loudspeakers.

Westlakes customers include: Michael Jackson, Whitney Houston, Quincy Jones, Frank Sinatra and Natalie Cole.

WE WILL NOT BE BEATEN ON PRICE!

THE UK'S ULTIMATE RECORDING & MIDI SPECIALISTS

PART-EX

CHelsea
 PROMIX 01 £995
 SRV330 £450
 SDX330 £450
 SDE330 £450
 DIGITECH VOCALIST £CALL
 REV0X B77 MK2 £499
 MARANTZ CDR £1495
 DM80 PACKAGE INCLUDES ALL BELOW £2995
 TWIN 1 GIG & DAT BACK-UP, DM80 REMOTE,
 FADER PACK, MAC SOFTWARE, CENTRIS 610 16" MONITOR.

ChELmsford
 ROLAND JV30 (BOXED) £499
 GEM WX2 (BOXED) £899
 ROLAND JV880 £499
 KORG EX-800 £179
 YAMAHA MT8X £699
 JL COOPER PPS-T SYNCHRONISER £99
 YAMAHA NS10-M £150
 DIGITECH VOCALIST II (C/W FOOTSWITCH) £399
 ROLAND JUNO 60 £299
 ROLAND JW50 £499
 ALESIS D4 £199
 AKAI DR40 C/W INTERNAL 540MB DRIVE £1199
 MACKIE SR24-4 £1199
 AKAI DR8 £2100
 TASCAM DA30 £750
 KORG POLY 800 £199
 ROLAND JV1080 £799
 KORG DSS1 KY8D £299
 ROLAND PC150 £99
 DBX 160XT £199
 YAMAHA RX7 £199
 ART ALPHA 2 £278
 ALESIS 3630 £179
 YAMAHA SPX 1000 £699
 DRAWMER DS201 £299
 APHEX TYPE C £149
 KORG D1WFD £999

Southampton
 ENSONIQ KT88 INC. CASE £1295
 BEHRINGER PD305 £350
 ALLEN & HEATH GS3 16CH. £995
 ALLEN & HEATH GS3 16CH. (MINT) £1195
 FATAR STUDIO 90 PLUS £349
 ROLAND R70 £249
 KORG X3 £699
 JUNO 6 £195
 KORG D1WFD £799
 SY35 (EX DEMO) £399
 OPCODE STUDIO 5 £349
 SAMSON MP2242 £499
 APHEX TYPE B £99
 ROLAND P55 £299
 JV50 (EX DEMO) £645

Bristol
 BOSS DS330 £149
 ROLAND JV90 INC. CASE £599
 ALESIS SR16 £150
 MACKIE MS1202 £249
 MACKIE CR1604 £550
 ROLAND JV880 £350
 YAMAHA OY20 £199
 ALLEN & HEATH GS3/16 £1050
 KORG TRINITY PLUS (BUILT IN PROPHECY) £2199
 FOSTEX R8 £700
 FOSTEX B12 £500
 ALESIS MEQ30B £149
 ROLAND D5 £299

Bristol
 FOSTEX XR7 4-TRACK £350
 ALESIS MIDIVERB III FX £130
 AKAI S950 (FULLY EXPANDED) £850
 ART ALPHA 2SE FX £250
 KORG C3500 PIANO £799
 TASCAM 644 £599
 ALESIS SR16 £160
 ZOOM 9030 £250
 ALESIS MIDIVERB IV £275
 APHEX TYPE C2 £200
 SECK 18-8-2 £650
 SOUNDCRAFT SPIRIT 24-8 £1400
 MACKIE LM32 £699

Music Connections direct factory policy.
 As music connections has grown foreign manufacturers have realised that we sell so much hi-tech equipment that we might as well sell their equipment direct for them. so when you see the sign, direct factory prices you are buying the equipment at prices normally offered in their home market. more importantly there is no distributor profit margin on this product. as a customer you really are getting exceptional value! so look for our direct factory prices logo.

DIRECT FACTORY PRICES

CAD 92
 £99

CAD 92
 THE EXTREMELY LOW MASS OF THE MICROPHONE DIAPHRAGM OFFERS EXCELLENT TRANSDUCTION OVERALL ESPECIALLY FOR HIGH FREQUENCY TRANSMITS THE CAD 92'S SMOOTH BANDWIDTH OF 40HZ-20KHZ. COMBINED WITH THE HIGH OUTPUT OF -46DB, MAKE IT A FIRST CLASS STUDIO AND TOURING MICROPHONE. THE CAD 92 PROVIDES EXCEPTIONAL CLARITY FOR VOCALS, CAPS HIGHS FOR CYMBALS AND THE OVERALL SMOOTH RESPONSE NECESSARY FOR ACOUSTIC GUITAR. ALL IN A LIGHT WEIGHT PACKAGE THAT IS RELIABLE AND AFFORDABLE.

CAD 27
 £49

CAD 27
 AN EXCELLENT, RUGGED AND VERSATILE UNIDIRECTIONAL MICROPHONE. THE CAD 27 OFFERS CLEAN, TRANSPARENT SOUND REPRODUCTION FOR USE IN VOCAL AND INSTRUMENT APPLICATIONS. INCLUDES SERIALIZED, GRADED CAPSULE WITH INDIVIDUAL TEE PRINT-OUT AND PROTECTIVE POUCH.

E-100
 £299

E-100
 SHARING THE INNOVATIVE SERVO CIRCUITRY WITH THE E-200, THE E-100 IS TRULY ONE OF THE BEST VALUES IN THE MICROPHONE WORLD. IN ADDITION TO THE PHENOMENAL WIDE BANDWIDTH RESPONSE THE E-100'S PHYSICAL DIMENSIONS CONTRIBUTE TO ITS VERSATILITY AS A VOCAL MIC, AN INSTRUMENT MIC, A DRUM KIT MIC, OR AN OVERLEAD MIC.

E-200
 £449

E-200
 DESIGNED FOR CRITICAL APPLICATIONS SUCH AS RECORDING, SOUND REINFORCEMENT AND BROADCAST. ITS UNIQUE COMBINATION OF TRANSPARENT REPRODUCTION OF ANY SOUND SOURCE AND HIGH SPL CAPABILITY MAKE IT ONE OF THE MOST VERSATILE HIGH QUALITY MICROPHONES EVER MADE. EQUALLY AT HOME IN A VOCAL BOOTH, IN FRONT OF A WHOLE SYMPHONY ORCHESTRA, CLOSE MICING A HIGH DRUM OR RECORDING A CLASSICAL GUITAR.

E-300
 £699

E-300
 WIDE BANDWIDTH - 10HZ TO 20KHZ
 EXCEPTIONAL DYNAMIC RANGE - 137DB
 EXTREMELY LOW SELF NOISE - 11DB
 SERVO HEAD AMPLIFIERS
 HIGH SPL CAPABILITY - 140DB
 TRANSFORMERLESS BALANCED OUTPUT
 INTERNAL POWER RESERVOIR SYSTEM
 REMOTE OPERATION

WHAT HAPPENS BIG IN AMERICA, AS HISTORY WOULD HAVE IT GOES BIG HERE. CAD, EQUITEK ARE THE FASTEST GROWING RANGE OF MICS IN THE US. ONCE AGAIN WE BRING YOU THESE GREAT MICS AT FACTORY DIRECT PRICES. TRY THEM AND BE STUNNED THAT YOU CAN GET A MIC OF THIS QUALITY AT THESE PRICES.

AUDIO TECHNICA

ATM 4033
 AEG
 C1000
 AEG
 C3000
 SHURE
 SM58&57
 HEILMANN
 TLM/93

CALL FOR UNBEATABLE PRICES ON THESE INDUSTRY STANDARD MICROPHONES.

R2D2 RACK
 £59

ZIMMER RACK
 £89

DAT TAPE AT TRADE PRICES.

15 MIN - £3.89
 30 MIN - £3.99
 48 MIN - £4.39
 62 MIN - £4.49
 92 MIN - £4.99
 122 MIN - £5.99

DAT HEAD CLEANER - £3.95

THESE PRICES ARE FOR MIXED LENGTHS OF 10 OR MORE TAPES. YOU WON'T BUY BETTER!

Chelsea

Chelmsford

Birmingham

Southampton

Bristol

MUSIC CONNECTIONS
 202NEW KINGS ROAD,
 CHELSEA,
 LONDON, SW6 4NF.
 ☎: 0171 731 5993
 ☎: 0171 736 4771
 FAX: 0171 731 2500

MUSIC CONNECTIONS
 ROBJOHNS ROAD,
 CHELMSFORD,
 ESSEX.
 CM1 3AG.
 ☎: 01245 354 777
 FAX: 01245 355 007

MUSIC CONNECTIONS
 CROSBY COURT,
 GEDRGE STREET,
 BIRMINGHAM,
 B3 1QG
 ☎: 0121 212 4777
 FAX: 0121 212 4877

MUSIC CONNECTIONS
 KINGSGATE,
 ST. MARY'S ST.
 SOUTHAMPTON,
 SO1 1NF
 ☎: 01703 233 444
 FAX: 01703 233 266

MUSIC CONNECTIONS
 21 THE MALL,
 CLIFTON VILLAGE,
 BRISTOL,
 BS8 4JG
 ☎: 0117 946 7700
 FAX: 0117 946 7600

THE BIGGEST AND BEST RANGE OF STOCK IN THE UK

THE MAIN Event?

PAUL WHITE tests a pair of US-built studio monitors designed to combine tonal accuracy with affordability.



EVENT 20/20 STUDIO MONITORS

even a quite decent £500, 2-way speaker will incorporate bass drivers costing under £15 each and tweeters that cost maybe £8 each or less. The rest of the money goes on the crossover, the cabinet, assembly, and of course the manufacturer's development costs and profit margin. No wonder, then, that some hi-fi systems contain sadly under-engineered drivers; by the time the pretentious trim and endangered-rainforest veneer on the cabinet has been paid for, there's really very little left to invest in decent woofers and tweeters.

Event would appear to have approached the problem from the other end, and though their drivers must still be built to a price, they're properly designed to do the job asked of them. The custom-built bass driver in this 2-way system is eight inches in diameter, and uses a mineral-loaded polypropylene cone mounted in a pressed steel chassis via a damped rubber surround. Driving the cone is a 1.5-inch, high-temperature voice coil in a magnetic assembly large enough to inspire confidence. A silver diecast aluminum trim ring provides a smooth aerodynamic transition from the driver to the cabinet, while forming a part of the 4-way mounting system.

It is generally accepted that soft-dome tweeters produce the most natural sound at sensible listening levels, and the 20/20s use a 1-inch, silk-domed unit with ferrofluid cooling. A second-order crossover (12dB/octave) operates at 2.2kHz, providing an overall frequency response of 50Hz to 20kHz +/- 2dB. This is quite a low crossover frequency considering the crossover slope is only second order, and it says a lot for the quality of the tweeter that no serious anomalies are audible in the 500Hz to 2kHz part of the spectrum, where the tweeter must still deliver a significant amount of audio energy, albeit at a progressively lower level with falling frequency.

A long, large-diameter port is used instead of a shorter, narrower one and this has a right-angled bend in it to make it fit the cabinet. This angled port design feature was also used on the Alesis Monitor Ones, and is intended to keep the port working properly at high sound pressure levels;

Event may be a new name on the studio equipment map, but the people behind the company are anything but new players: their chief loudspeaker designers (including Frank Kelly, interviewed back in SOS April '95) have a 25-year track record with some of the biggest names in US audio, including JBL, Gauss, UREI, Harman and Alesis.

DESIGN & CONSTRUCTION

Designing a new loudspeaker can be no easy task, because most of the parameters and potential problems are well-documented, as are most of the solutions. Indeed, some would argue that the only improvements still to be made are very small, and while this is probably true, the Event approach seems not to be to improve on perfection at all costs, but rather to build a cost-effective monitor capable of rivaling the performance of established models costing two or three times the price. This is a most laudable aim, but how is it possible to build a very high-quality studio monitor loudspeaker system for under £400?

If you've ever seen how a hi-fi loudspeaker system is priced, you might be horrified to learn where the money goes. Once you've deducted the dealer and retailer margins, it's quite possible that

pros & cons

EVENT 20/20 £399/£399

pros

- Well-balanced, smooth sound with good bass extension.
- Attractive price.
- Efficient; you don't need a hugely powerful amplifier.

cons

- I'm thinking!

summary

An extremely well thought-out design, which puts solid audio performance before fashion.

SOUND ON SOUND



Studio 49 Specifications

- Full-size 49 unweighted keys
- Velocity Sensitive

STUDIO 610 PLUS



Studio 610 Specifications

- 61 full size velocity-sensitive keys.
- Pitch Bend Wheel and Programmable Wheel
- Program change, MIDI channel change, Transpose

Studio 610+ Specifications

- As Studio 610 except with aftertouch and semi-weighted keys

STUDIO 900



Studio 900 Specifications

- 88 weighted keys with hammer action
- Pitch Bend Wheel and Programmable Wheel
- Program change, MIDI channel change, Transpose
- Also available with Integral flight-case

STUDIO 1176



Studio 1176 Specifications

- 76 weighted keys, Hammer action
- Velocity Sensitive with Aftertouch
- Pitch/Mod. Wheels
- 4 Programmable Zones
- 32 Presets
- 2 control sliders
- Program and bank change

STUDIO 1100



Studio 1100 Specifications

- As 1176 but with 88 keys
- Also available with Integral flight-case



Studio 2001 Specifications

- Full-size 88 weighted keys with hammer action
- Four MIDI inputs may be used for additional keyboards, MIDI accessories, sequencers, etc.
- Four fully independent MIDI outputs,
- 64 MIDI output channels.
- Two programmable control wheels.
- Four programmable control slider.
- Preset increment and decrement input.
- Eight keyboard zones may be defined over local or external keyboard regions.
- Also available with integral flight-case



Full range of Volume, Sustain & MIDI pedals



“Playing stadium-capacity shows and recording live albums, I needed a keyboard that combined great feel with MIDI versatility and reliability”.

James Hallawell, pictured at the Royal Albert Hall during the recent Alison Moyet tour.

PIECE OF THE ACTION

With recent credits including sessions with Supergrass, Stereo MCs, Joan Armatrading, Dave Stewart and full tours with Alison Moyet, Graham Parker and The Pretenders, top keyboard player James Hallawell has had a busy year.

To cope with his varied and demanding schedule, James has been relying on a FATAR 2001 keyboard as the heart of his set-up.

James chose the 2001 for its powerful MIDI control and the incredibly realistic piano action found throughout the FATAR range.

Visit your local FATAR centre now and get yourself a piece of the action.



STAB, MESSAGE & BOUNCE...

The secret of the FATAR ACTION lies in the patented hammer. Whilst most 'piano action' instruments rely on damped or weighted keys, FATAR's hammer is thrown up and forward on its pivot as the key is depressed, mimicking exactly the action of a traditional acoustic piano.



The combination of more mass moving through an arc means greater acceleration of the key and a remarkably increased dynamic range. You'll find you can put great power into chord stabs and loud passages whilst the natural inertia of the hammer provides exactly the right kind of counter-balance that lets you massage real piano keys for expressive pianissimo.

Equally important is the tiny bounce a hammer gives the key as it comes to rest. It's this bounce that lets you play those two-handed paradiddles - and while we are talking percussion it's worth remembering that keyboards are used for triggering all sorts of things these days.

FATAR STUDIO SERIES
MASTER KEYBOARDS

Event 20/20 Monitors

▶ smaller ports apparently suffer from turbulence which makes the effective port size, and hence the cabinet tuning, change with level.

So far, the quality of design and choice of components seems fine, so where has the money been saved? The most obvious area of economy is the cabinet. This is fabricated from vinyl-laminated, five-eighths-of-an-inch medium-density fibreboard, and the constructional method seems to be similar to that used for low cost hi-fi systems, so what you get is a functional box with sharp corners and a no-nonsense, wipe-clean finish. Machined rebates accept the drivers, which are mounted without the benefit of gaskets, and are secured using screws rather than bolts. Despite the lack of gaskets, there appears to be no air leakage around the bass driver, and the overall presentation is very smart. The front port vent is plastic, but inside the box the port changes to a cardboard tube — again, perfectly acceptable in engineering terms, and another way to trim the cost without compromising performance. Absorbent lining is placed on the cabinet sides, and the crossover is mounted on a small PCB affixed to the rear panel. Grain-orientated steel laminate rather than air-cored inductors are used, presumably to save cost, and though some purists will argue the merits of air-cored inductors, the only meaningful test is ultimately to listen.

An off-the-peg, rear-panel terminal block accepts unterminated wires, banana plugs, spade terminals or pin connectors, and no provision is made for bi-wiring, doubtless on the very valid basis that few studio users would use it anyway!

LISTENING IN

The Event 20/20s are quite compact, measuring just 14.75 x 10.25 x 11.75 inches, and they're obviously designed to fill the need for a nearfield monitor, though they deliver quite enough bass end to be used as main monitors in a small studio or edit suite. Tonally, the speakers are detailed, but without being overbearingly harsh — a common fault among budget monitors. There are no untoward bass-end hot spots, no nagging peaks in the 3 to 6kHz range, and the general impression is that you're hearing a pretty honest representation of

what's being fed in. The adjectives smooth, sweet, confident and effortless spring unbidden to mind, but as I don't have a sentence to put them in at the moment, I'll leave them here for the time being. There's plenty of top-end clarity without any tendency to fatigue, and the stereo imaging is excellent, even when you're well in front of the sweet spot. To maintain a sense of perspective, the sound of the 20/20s stands up well in comparison with the likes of the smaller Genelec and Dynaudio monitors, though every different brand has its own unique character. The 20/20s' sound isn't as tightly

controlled as from my little ATC 20s, which are far less efficient and very highly damped, but there's nothing to worry about, especially at the price the 20/20s are going for.

These monitors are rated at 200W peak, 150W programme, and have a nominal 4Ω impedance, though they're efficient enough at 88dB@1 Watt @ 1m that you could monitor quite loudly with an amplifier as low as 50 Watts per channel, or even less. Because loudspeakers often dip below their nominal impedance at certain frequencies, it is essential to use a good-quality amplifier, one that is rated to handle 4Ω loads or lower. I used an AVI 100W per channel integrated amplifier for testing, and had plenty of level in reserve.

SUMMARY

The Event 20/20s turned out to be damn fine monitors, well up to the task of serious mixing, editing or post-pro work; I'm looking at my Pro Tools system at the moment to see if a pair would fit, though a lack of magnetic shielding on this particular model means you can't put them too close to your computer monitor. I understand that a magnetically-shielded version of this monitor is in the planning stage.

The 20/20s' bass end is sufficiently extended to make them useful as the sole pair of monitors in a small studio, yet it isn't so extended as to cause problems in a project or home studio that may not have the benefit of thorough acoustic treatment. Well-recorded music is reproduced with a degree of clarity and detail that you'd normally associate with rather more costly monitors, while flaws in poor recordings are clearly exposed. This is exactly what you need from a monitor system — overall honesty without frills or flattery. After all, when something isn't right, you want to be the first to know about it.

As a first product from a new company, the 20/20s seem to have hit the target price for a project studio monitor without significantly compromising on audio integrity. Corners have been cut, but these are all in exactly the right areas — the cabinets are functional rather than statements of high fashion, both cabinets are identical rather than being built as right- and left-handed versions, and the design has been worked out for efficient assembly. I don't have a problem with any of that, as the drivers are up to the task, and the basic design is sound. If you're in the market for new monitors in this price range, you'd be doing yourself a great disservice by not checking out the Event 20/20s. I'm now very curious to see what they come up with next — who knows what awaits us beyond the Event horizon? **SOS**

THE ACTIVE APPROACH — THE BI-AMPED EVENT 20/20

This active version of the 20/20 (not shown in the picture in this review) includes a pair of amplifiers — 130W driving the LF speaker and 70W feeding the tweeter. These are fed from a 4th-order active crossover operating at 2.6kHz. The input socket can accept either balanced XLRs, balanced jacks or unbalanced jacks. An input level control provides 20dB of gain adjustment, and separate trim controls are fitted, so the low frequency and high frequency levels can be adjusted independently to help compensate for room acoustics and speaker position. An active, subsonic filter attenuates signals below 30Hz (these wouldn't be heard anyway, but they might tax the speakers and amplifiers), and RF filtering is also included to reduce the risk of radio frequency interference. A green power indicator LED is positioned at the bottom of the woofer trim ring to show the speakers are on, which also doubles as a clip indicator. Protection for the speakers and amplifiers is provided by amplifier output current limiting, over-temperature sensing and switch-on muting to guard against power-up transients. There's also a resettable mains circuit breaker.

Though the speakers have the same family sound as the passive versions, the use of a steep active crossover and bi-amping results in a noticeably tighter, better-controlled sound with greater clarity at the bass end in particular. At the top end, the sound seems smoother, yet very detailed. Even at very loud monitoring levels, the sound remains tight and very well controlled. If you haven't already got a suitable power amplifier, I'd strongly recommend you consider the active versions, as they have a very clear sonic advantage over their passive companions.

£ Passive monitors £399 per pair;
Bi-amped active versions £999
per pair. Prices include VAT.

▲ Key Audio Systems Ltd, Unit D
Chelford Court, Robjohns Road,
Chelmsford CM1 3AG.

T 01245 344001.

F 01245 344002.

R&W IS HAUNTED

by Soundcraft's brand new Ghost mixing console



It's set to spook every other 8-buss desk on the market. Pounded for pound, it's got more highly desirable bells and whistles than the rest. Major features

like an on-board computer with a fully automated MIDI mute recall system, control of external tape machines with audio/video scrub facility, a Timecode reader/generator and 4 MIDI data faders for control of external effects parameters.

Audio-wise it's a killer - Ghost features Soundcraft's new ultra-low noise mic amp with a whopping +60dBu input sensitivity, and of course legendary Soundcraft 4-band EQ with 2 fully parametric mids is included as standard. There are also 6 mono and 2 stereo aux sends, 4 stereo returns and Mix 8 path on every channel (giving 56 possible inputs on the 24 channel version).

One thing about Ghost that won't spook you is its low cost. Ask for our free information sheet.

THE CLASSIC LANGEVIN CR3A

You'd normally expect to pay well over £1,000 for a large condenser cardioid studio microphone, particularly when it has a 1 inch x 6 micron gold-plated diaphragm, -10dB pad switch and bass roll-off as well as extremely low noise discrete amplifier circuitry.

And then you'd expect to part with even more of your money for pop filter and shock-mount suspension.

Not with the Langevin CR3A - all the above are standard features, yet you can buy it from R&W for just £439 inc. VAT.

- The accessories are FREE.
- Classic studio performance.
- Your money back if not impressed.

New
£399
inc. VAT



TWO TEMPTING TANNOYS

R&W introduce some great new nearfield speakers from the Tannoy stable. System 600 (6") and System 800 (8") are for the discerning eye as well as the critical ear. Perfectly proportioned for positioning atop your console meterbridge.

Audition a pair at R&W or borrow a pair from us to hear in your own studio. We bet you'll be as highly impressed as we are.

THE "FAB FOUR" AT R&W

A Tascam DA88 can record up to 113 minutes of music in CD-quality on a single ultra-small Hi-8 tape. We recommend it because no other digital 8-track tape format can compete on features, build quality and reliability. It is still the preferred choice of multitrack tape format by the professional.

We will not be beaten on Tascam DA88 Price & Service. Call us now!



FREE Extended 3-Year Guarantee
FREE RC808 Remote control
FREE Ten Hi-Fi Tapes

BEST SOUNDING DAT



Listen to Tascam's DA30 MK2 DAT Recorder next to any other brand of DAT machine and hear the difference.

The secret is in its unique AD and DA converters. They are really 'musical' sounding. Thus they ensure your valuable masters actually sound better. Add to this Tascam's famous workhorse build quality and long feature list. Then consider R&W's best price promise.

Nobody can beat R&W on Tascam DA30. Just ask!

Tascam's most recent studio DAT recorder. At a price more associated with delicate Hi-Fi DATs. The difference is that this machine is heavier duty by far. And it comes with some unique features. You can record a 60-character message at the start ID of each track and this is displayed as the track plays. You can turn off SCMS copy limiting without the need for a modification. It even comes fitted with 19" rackmounts as standard.

We've sold loads of DA30's - Why? - Because we sell them for less!

Portable & Affordable

The Tascam DA-P1 is the world's lowest-cost professional portable DAT recorder. With the sort of facilities you expect in a studio DAT. Along with XLR microphone inputs and 48V phantom power for condenser mics, plus a built in record limiter to ensure your recordings don't distort at those unexpectedly high points that always happen when you're recording your most important work on location.

Save money on a DA-P1! R&W have a special price for you this month!

BACK IT UP

We've recommended the superb Foxtex DMTB Hard Disk Portastudio for some time. And now we are adding the benefit of a low-cost DAT backup recorder to save your valuable work at the end of a session. Here's a new R&W package combining the Foxtex DMTB with the legendary Sony DTC60-ES DAT mastering recorder. A Digital Workstation with optical Backup and Mastering all-in-one. No need for any extra gizmos - just use the optical cable supplied. And we guarantee it for 2 years!

Just £1995 inc. VAT at R&W only while stocks last!



TWO NEW MARANTZ CD-RECORDERS

"Everything you've ever wanted in an audio CD-Recorder." That's the verdict on the new CDR-620 and CDR-615 from Marantz. The ultimate (and increasingly preferred) mastering format is now Compact Disc. So if you're mastering from a Digital Audio Workstation you'll need the SCSI-equipped CDR-620 (with its FREE RC-620 Remote) or else a standalone CDR-615. And, by buying from R&W, you'll get all the CD-R 'extras' you need too.

- FREE R&W Pre-Sales Test Bench Checkout
- FREE R&W Installation & Training (M25 area)
- FREE R&W Extended 2-Year Guarantee
- TEN (yes, 10) FREE Blank 74-minute/650Mb CD-R Discs

R&W are the recognised CD-R experts. Call us for best CD-R Advice & Price.

dbx 1066 A WINNER

Here's a real winner of a dynamics processor for you. The dbx 1066 Compressor/Limiter Expander/Gate will turn your world on its ear (it says here). Actually they're right. It does. We recommend you have a listen to it. Or at least get some bump on it from us. It's a joy to use and hear.

Great Dynamic Processing from R&W for just £449 inc. VAT

NEW PANASONIC DAT

When pure audio performance is what you're after we have long considered two DAT recorders to be worthy of serious consideration, the Tascam DA30 MK2 and Panasonic's SV-3700. Now Panasonic have brought out their new SV-3800. And it's a beauty. Thanks to its new D-A and A-D converters. Practical too - it's got a shuttle wheel multiple digital interfaces. Just a few reasons why the SV-3800 is selling so well at R&W right now. And R&W will guarantee it for not one, but TWO years to give you that extra little bit of confidence & assurance.

Get a new Panasonic DAT for £1099 at R&W now!



IT'S 330 ALREADY

So let's get into space with Roland. Two great effects units - the SRV-330 Dimensional Space Reverb and the SDE-330 Dimensional Space Delay. Not just your ordinary stereo effects, neither. These guys deliver truly 3-Dimensional sound environment and spatial effects you will love.

R&W sells Roland Space Effects for less.

AFFORDABLE CONVERSION

The Analogue-to-Digital and Digital-to-Analogue converters in most digital recorders and mixers are quite adequate for the job. But, for reasons of economy, they are not always as good as they could be. Hence there are a few excellent third party converters around. Whilst most of these are well out of range of the average pocket, here are two that are not. The Langevin ADC-90 90-bit A-to-D and DAC-90 90-bit D-to-A. We've a pair of evaluation units available if you really want to be amazed. Ask Colin Bird or Phil Darke to arrange a loan for you. **Try before you buy!**

IN YOUR DREAMS

Well, it used to be, but at R&W it's now a reality. We can give you a fully digital Studio Workstation for less than £1499! It's the Roland VS-880 and it offers an amazing 64 tracks of 16-bit/44.1kHz CD-quality direct to disk recording. Plus full digital mixing and automation. Storage is to internal IDE or external SCSI drive, with fast DAT backup. For modest extra cost we can also give you an optional internal digital effects board to make you VS-880 really indispensable.

R&W won't be beaten on Roland VS-880

THE WIZARD OF R&W

From the people who gave you the cutting edge technology of the M5000 Digital Audio Mainframe here's the new electronic Wizard M2000. The first really affordable multi-effects processor from the acknowledged world leader in the art of digital processing. The M2000 incorporates many of the M5000's virtues, including its much sought-after C.O.R.E. reverbs - unique to electronic - as well as its new Dynamic Morphing™ function whereby one effect may be seamlessly changed (morphed) into another. Like its 2290 and M5000, the M2000 is set to become an Industry Standard. And this time they've priced it so we can all have one!

Wizard M2000 now at £1639 inc. VAT at R&W

THEY JUST KEEP ON COMING

Yup, it's time for yet another addition to the unbeatable Folio range from Soundcraft. This time it's the Folio-SX. And it's a corker. 20 inputs (12 mono & 4 stereo) into 4, with direct outputs from channels 1-8 for multitrack recording. Great EQ section ("Real Brush EQ" as Soundcraft put it). This desk must be heard to be believed. The perfect budget console for both live and studio use. Worth serious consideration.

Folio-SX is just over £239 at R&W



BEST FOSTEX VALUE AT R&W

Take the concept of ADAT one step further. Throw out the tape. Put in a hard disk. Make it modular so multiple machines can be slaved together to build into 16 & 24-track systems. What've you got? Yes, it's the new Foxtex D80 with its up-to-40 minutes of simultaneous 8-track recording in CD-quality on removable, IDE caddy-held hard disks. What's more, it's got a removable front panel Remote Control providing access to all functions including cut, copy, paste & move editing. The D80 even interfaces with the excellent Foxtex DTM8 (see panel left).

For £1699 inc. VAT, the D80 comes with one 830Mb (18 minute) hard disk to get you going. But if you give us just £70 more than this (£1769) we'll give you another 1.71Gb (40 minute) hard disk worth £295! Limited stocks, so HURRY!

Yamaha 02R Digital Console

NO DEPOSIT FINANCE AVAILABLE
Subject to Status

Rarely out of Stock



AMAZING FEATURE LIST

Yamaha's new 02R is an eight buss fully programmable digital console with 40 input channels (24 analogue, 16 digital), 100mm motorised moving faders and no less than 50 internal effects processors. All controlled by its own internal Mac-like computer.

LOW COST

Its price tag of just £6999 inc. VAT makes it possible for us to provide you with a fully equipped, digital studio for under £10K. Including digital multitrack & monitoring. Just ask us for a quotation.

R&W have the best stocks of 02R in Europe. Call us now.

Talk to Phil, Rich or Colin on the R&W Sales Desk. They'll arrange for you to evaluate the ground-breaking Yamaha 02R for yourself.

FREE AKAI HARD DISKS AT R&W

The great thing about Hard Disk Recording is that you don't have to trundle through a tape to hit the spot. Just access any track or point in a track instantly.

We recommend Akai's DR4, DR8 & DR16 multitrack machines because they are so reliable and have a similar control surface to a tape recorder. This means no tedious learning curve - you can get on with your work as soon as you've unpacked it and plugged it in.

Also, just like ADATs and Tascam DAB8s you can start off with one Akai DR8 8-track and daisy-chain to another one, or even a DR16, to upgrade your system to a 16 or 24 track setup as you can afford it.

When you buy a DR4 or DR16 at R&W to get you started we'll give you a FREE 1GB Hard Drive worth £395.

FREE R&W MEMORY UPGRADES WITH AKAI SAMPLERS

Now, as well as the best price on your new Akai sampler, R&W will give you a FREE Memory Upgrade of up to 16Mb on S3000XL and S3200XL models.

- S2000 & Best Price Guaranteed.
- S3000XL £1799 inc. VAT including FREE 8Mb R&W Upgrade
- S3200XL £3499 inc. VAT including FREE 16Mb R&W Upgrade

The best Akai deal in the world!

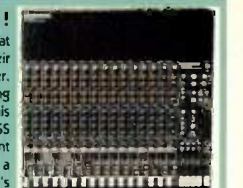


FREE SAMPLING SOFTWARE AT R&W

Drive your new Akai sampler from your Mac with Akai's 'MESA' modular editing software, FREE at R&W

IN YOUR FACE!

We all know Mackie make some great mixers. Now they've made their compact range even better. By revamping their circuitry and making it VLM - Very Low Impedance, this simply means LESS NOISE and LESS CROSSTALK (No need to shout!). Want to know more? Ask us to send you a copy of 'In Your Face', Mackie's brilliant newspaper-style approach to product literature. Once you've read it you'll be convinced that (a) you'll want to own a Mackie compact mixer, and (b) you'll want to buy it from Raper & Wayman (where does it say that?). We're waiting for your call.



Mackies cost less at R&W.

RAPER & WAYMAN

Professional Audio

R&W IN-STORE OR MAIL-ORDER

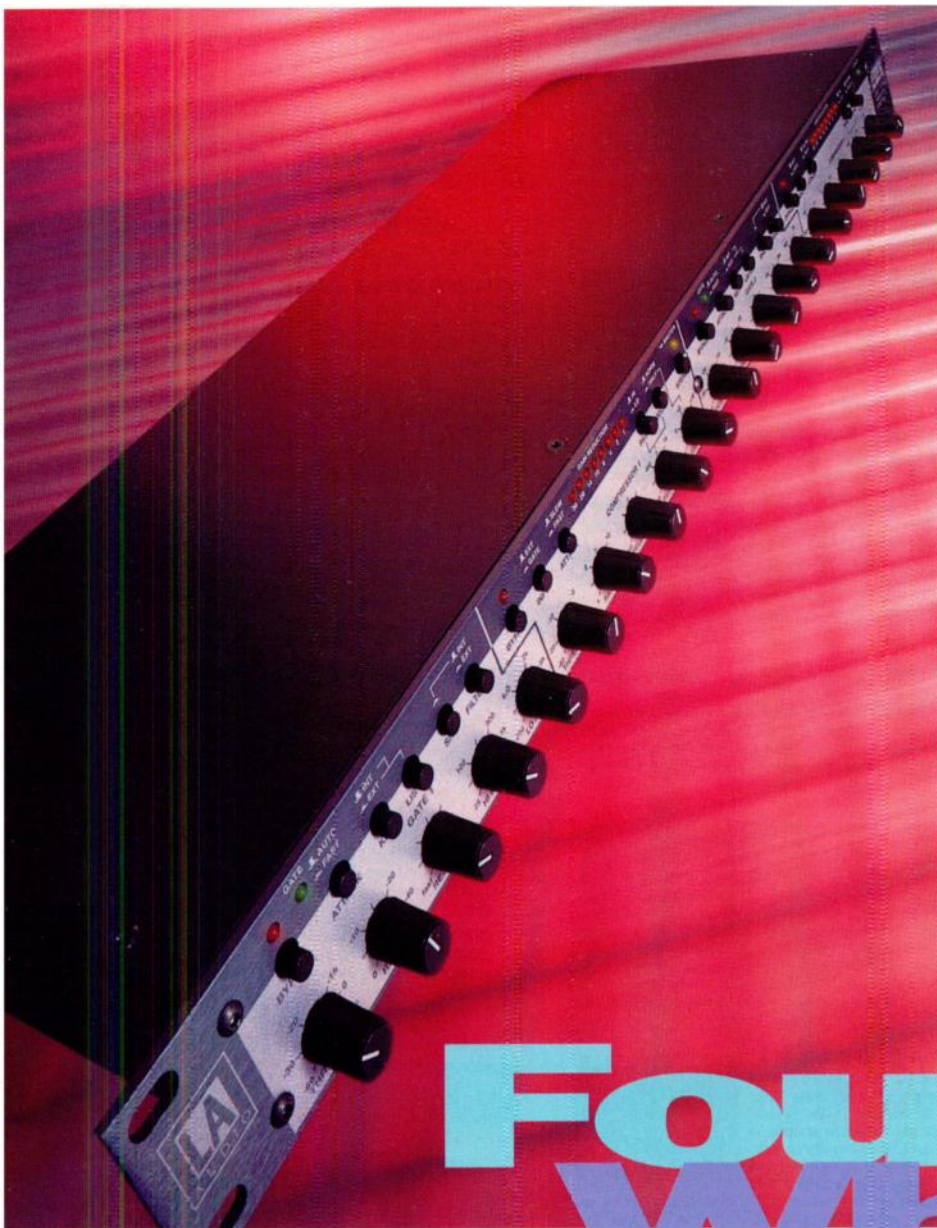
- Microphones
- Mixers
- Digital & Analogue Multitrack
- DAT Recorders
- Hard Disk Recording
- CD Players & Recorders
- Effects Processors
- Samplers
- Broadcast Equipment
- Monitor & PA Speakers
- Power Amplifiers
- All the leading brands in stock
- 2-Year Minimum Guarantees
- Pre-Delivery Testbench Checks
- Spacious Showrooms
- Relaxed Atmosphere
- Knowledgeable Sales Staff
- Superb Technical Support
- In-House Service/Repair Centre
- No 'Hard Selling'
- Next Day Insured Delivery
- Export Shipping arranged

R&W give you all this AND the best Advice & Price in the business.

Tel: 0181-800 8288

Fax: 0181-809 1515 EMAIL: 100551.2752@compuserve.com
Unit 3, Crusader Estate, 167 Hermitage Road, Manor House, London N4 1LZ





Four Wheel Drive

LA AUDIO 4x4² 4-CHANNEL DUAL FILTER NOISE GATE COMPRESSOR

With so many compressors and gates on the market, companies need an angle to make their products stand out from the crowd. Some go straight for the jugular and set rock bottom prices, while others go to the other extreme, offering fancy colours, high prices, and the promise of vintage performance.

LA Audio seem to prefer the 'added value' route; their original 4x4 processor comprised two compressors and two gates, plus filters which could be assigned to either the gate (for frequency-conscious gating) or to the compressor (for de-essing/de-popping). I remember being impressed by the sound quality of these compressors, as well as the overall flexibility of

the system, but LA Audio clearly thought they could go further. In the 4x4², they've delivered added value with a vengeance.

RETHINK REMODEL

Rather than being an upgrade, this is a complete redesign based on the circuitry used in the LA 4C and 4G dedicated compressor and gate units. The cosmetics are new, the internal design is new, and the features on offer have been extended to include separate filters for the gate and compressor, plus electronically balanced inputs and outputs on XLR connectors. Further jack connections are provided, so that the gate filter can be used as a separate equaliser if required. There gate also offers a Key Input, for external triggering. And for good measure, there's a basic but useful single-ended noise reduction mode thrown in.

The compressor has the benefit of an external side-chain In/Out connector, allowing additional EQ or other processing to be inserted in the compressor side-chain. Taken as individual compressors and gates, these features would be welcome but unremarkable — after all, we've seen most of them before in LA Audio's own 4C and 4G models. It's only when you consider that you get two compressors and two gates, complete with all the above facilities, in a sensibly-priced 1U package,

Always ready for some off-road action, PAUL WHITE scrambles for his XLR adaptors and test drives LA Audio's latest incarnation of the 4x4.

that the 4x4² begins to look rather special.

Both the gate and compressor retain LA Audio's proprietary FET technology, which is designed to emulate the warm overload characteristics of tube designs. The compressor also has a soft-knee characteristic coupled with a ratio control — a combination I've always found to work well.

The gates and compressors may be used independently or in combination with the gate before the compressor in the signal path. Linking is achieved via the Ext/Gate button in the compressor section, and when linked, the gate output and compressor input become unavailable — a good system if you want to leave the unit wired to a patchbay.

GREAT GATE?

Looking at the gate section first, this has almost as many features as you'd find on a stand-alone dual gate, the main difference being that the envelope attack is switchable between Fast and Auto rather than being fully variable. Fast mode has a very fast attack time, suitable for use with percussive sounds, while Auto continuously adapts the gate attack time to the transient characteristics of the input signal. Release, Range and Threshold are all fully variable, with Range setting the amount of attenuation when the gate is closed, and may be varied continually between 0dB to 60dB.

Triggering is switchable from Internal (where the gate triggers from its own input signal) to External, and a green status LED indicates when the gate is open. Bypass switches with red status LEDs are provided separately for the compressors and gates, while a Key Listen switch allows the gate keying signal (post-filtering, where applicable) to be monitored.

Filtering follows the familiar, variable frequency high-pass and low-pass formula originally introduced by Drawmer, but an Int/Ext button enables the 4x4²'s filter to be disengaged from the gate, so that it can be accessed via the rear panel sockets. The filter section comprises two independent, variable-frequency shelving filters, each with a 12dB per octave response. The Lo filter has a high-pass response, while the Hi filter has a low-pass response. Steep shelving filters of this kind can usefully extend the flexibility of more conventional equalisers, as well as being ideally suited to their more usual role of helping reduce false gate triggering. The idea of making them accessible for external use is thus very welcome.

A further filter option is the SNR mode, which uses the filter to implement a simple, single-ended noise reduction process. This works rather differently to most stand-alone SNR units, in that the filters are used to determine how much of the signal will be allowed to pass when the signal falls below the gate threshold setting. For example, you might set the Lo filter to 150Hz and the Hi filter to 3kHz, so that when the signal level falls below the threshold, the audio bandwidth closes down to reduce hum below 150Hz and hiss above 3kHz. Though this arrangement isn't quite as sophisticated as a sliding filter SNR, it is surprisingly effective, and reasonably transparent — provided you're careful with the settings.

EXPRESSIVE COMPRESSION

Like the gate, the 4x4²'s compressor compromises by having a switchable attack time, though this time the choice is between Fast and Slow rather than Fast and Auto. Personally, I feel Auto would have been a better choice, as the Auto setting on my own

Drawmer 441 adapts beautifully to anything you throw at it. The main compressor controls comprise the usual Threshold, Ratio, Release and Gain (output make-up gain) with switching that allows the compressor to be used independently or after the gate. An 8-section LED gain reduction meter monitors how much level is being trimmed off by the compressor at all times, while a Stereo button in the centre of the front panel (accompanied by an amber LED) allows the two channels to operate as a ganged stereo pair.

The 4x4² sees the compressor with its own filter; in this case a switchable high- or low-pass filter continuously variable from 100Hz to 10kHz. This is normally employed in the side-chain, where it can be used to make the compressor react in a selective way to pull down the gain of high frequency sibilant sounds (in high-pass mode), or reduce low frequency artefacts such as popping (in low-pass mode).

Another use for the filter becomes evident when you select Half mode, which configures the compressor as a half-band compressor. This is a very creative mode — it lets you split the frequency spectrum using the filter, then (depending on whether you've selected high- or low-pass filtering), you can compress just the upper or lower end of the spectrum, leaving other frequencies unchanged. The Gain control adjusts the level of the compressed portion of the spectrum against the uncompressed portion, so you can do lots of neat things like compressing the top end, then bringing it up in level to create an enhancer-type effect. Similarly, you can compress just the bass end of a sound — or even a full mix — then crank it up to deliver a very punchy sound, without affecting the brighter elements in the mix. The split point is set by the Frequency control, allowing you to be very precise about where the effect comes into play.

OFF-ROAD ACTION

Checked individually, the 4x4²'s gates and compressors behave very much like those fitted to the 4G and 4C — hardly surprising, given that these are the very circuit designs upon which the new 4x4² is based. The compressor has a deliberately warm character. When you really pile on the compression, the gain pumping becomes clearly audible but in a constructive, 'vintage' sounding manner rather than being unpleasant. Of course, you can provoke the pumping to excess

“The designers really have gone flat out to provide you with just about every possible combination of options based on gates, compressors and filters...”

pros & cons

LA AUDIO 4X4² £465

pros

- Powerful range of creative features.
- Warm, vintage sound.
- XLR balanced ins and outs.

cons

- Compressor has only Fast and Slow attack settings — no Auto option.

summary

A supremely versatile compressor/gate combination that could satisfy all the gating and compression needs of the small studio.

SOUND ON SOUND



LA Audio 4x4²



▶ if you choose a fast compressor attack, a fast release and lots of gain reduction — but used sensibly, the compressor is smooth and flattering.

In split compression mode, I had great fun trying to create very beefy mixes by compressing just the bottom end. At the opposite extreme, you can create a very exciter-like effect simply by compressing everything above 4kHz or so — then bringing up its level while using the Bypass button to check that you haven't overcooked things. Similarly, the filter is useful for gentle de-essing, but lacks the focus of a dedicated de-esser unit. Such devices usually include a band-pass filter option, allowing you to tune into the sibilance more precisely.

The gate works well, and the Auto setting means that you don't miss a separate Attack control — except when you wish to use a gate to impose a deliberately slow attack on a sound. The side-chain filters are suitably sharp, and the overall balance of features is impressive. I also rather like the 'quick and dirty' SNR option, which can really help quieten noisy synths and guitars. It works just like a gate, except when the gate closes: instead of nothing, you're left with a filtered version of the original, and how filtered this depends entirely on your filter settings.

PERFORMANCE

At almost £465, the LA Audio 4x4² doesn't quite fall into the lower end of the budget equipment category, but when you take into account that you're getting two comprehensive gates and two very flexible compressors for your money, there's no disputing its value. The designers really have gone flat out to provide you with just about every possible combination of options gates, compressors and filters, and for this reason the 4x4² is a very powerful creative tool as well as a useful all-rounder.

Criticisms are few, and perhaps the only shortcoming worthy of mention is the lack of an Auto compressor attack setting. The two switchable options perform well enough for most applications, but Auto would have been even better. My favourite creative mode is the split-band compressor, but it's also good to be able to use the gate filter externally, without having to lose the use of the entire gate. Full marks (almost) for lateral thinking — a well thought-out British design with impeccable styling.

SOS

£ £464.13 inc VAT.
A SCV London, 6-24 Southgate Road,
 London N1 3JJ.
T 0171 923 1892.
F 0171 241 3644.

Info

SOUND CONTROL
MAIL ORDER

Address...

- The Elgin Works
- Dunfermline
- Fife. KY12 7SD

Freephone...

0800-52-52-60

Facsimile...

01383-725733

Email...

jmt@soundcontrol.co.uk

ROLAND VS880 DIGITAL
RECORDER...

- 8 X 8 VIRTUAL TRACKS
- VARIABLE SAMPLE RATES
- EXTERNAL IDE DRIVE OPTION
- EXTERNAL SCSI STANDARD
- 14 CHANNEL DIGITAL TRACKER
- AUTOMATED MIX/PAN BY INDI
- OPTIONAL MEGH EFFECT BOARD
- INTUITIVE TAPE-TYPE TRANSPORT
- ANALOGUE IN, DIGITAL IN/OUT
- FREE UK DELIVERY

CALL US NOW FOR FURTHER DETAILS ON THE VS880 AND ITS PRECIOUS OPTIONARY FREE CH - 0800-52-52-60...

HARD DISK EXTRA
£1499.00
ASK FOR DETAILS

OVER 35 TRKS
TOTAL RECORDING
(USING ALL 8 TRACKS)
FROM A TYPICAL 540MEG
HARD DRIVE

C/W FREE 100 MEG DISK...

ZIP DRIVE...

THE MOST EFFECTIVE MEANS OF SCSI BACKUP EVER... THE PERFECT PARTNER FOR A VS880 OR ANY SCSI SAMPLER - CHECK THIS OUT... YOU CAN EVEN RECORD DIRECTLY ONTO ONE OF THESE FROM THE ROLAND VS880 - ALL 8 TRACKS...

£199.00

FOSTEX DMT-8...

COMPLETE WITH INTERNAL 540 MEG IDE HARD DRIVE FOR 8 TRACK DIGITAL RECORDING

£ NEW PRICE

DIGITAL 8 TRACK WITH NO TAPES!! TOO MANY THINGS TO SAY ABOUT THIS MEGA 8 TRACK! CALL OUR MAIL ORDER LINE NOW FOR FURTHER INFORMATION OR TO RESERVE YOURS TODAY!

DA20...

PERFECT FOR DIGITAL BACKUP/MASTERING...

AUDIOMEDIA-2...

WITH SOUNDESIGNER-2

£749.00

CHECK OUT THIS PRICE ON THE FANTASTIC AUDIOMEDIA-2 PACKAGE FOR ANY NUBUS EQUIPPED MACINTOSH. PLEASE ASK FOR OTHER DIGIDESIGN SOLUTIONS THAT ARE AVAILABLE FOR MAC/PC

TURTLE BEACH

THIS SUPERB RANGE OF SOUND CARDS OFFER THE VERY BEST VALUE IN DIRECT TO DISK RECORDING FOR THE PC AND COMBINED WITH THE YAMAHA DB50XG THEY ARE AN UNDEBATABLE COMBINATION...

YAMAHA DB50XG IN STOCK

SOUND CONTROL MAIL ORDER

FREEPHONE - 0800-52-52-60

PORTA-03 MK2

- FREE MICROPHONE
- FREE CABLE
- FREE U.K. DELIVERY

£199.00

PORTA-07...

- FREE MICROPHONE
- FREE CABLE
- FREE U.K. DELIVERY

£339.00

V375...

AT LAST - IT'S BACK...

- ONLY £60 WHEN ORDERED ALONG WITH ANY FOUR TRACK FROM SOUND CONTROL...

£69.00
£60.00

TEAC W416...

DOUBLE DECK LUXURY!

- ONLY £90 WHEN ORDERED ALONG WITH ANY FOUR TRACK FROM SOUND CONTROL...

£99.00
£90.00

MT50/MT4X...

- FREE MICROPHONE WITH SELECTED YAMAHA FOUR TRACKS...
- MT50 - £299
- MT4X - £429

£299.00
£429.00

DCC170/DCC730...

- FREE TAPES
- FREE DELIVERY

AT LAST - DIGITAL MASTERING WITHIN EVERYONE'S PRICE RANGE!

ASK ABOUT OUR EXCITING DEALS ON PHILLIPS DCC MINI HI-FI SYSTEMS FROM ONLY **£399.00**

£249.00

MICROPHONES...

SHURE SM57 ---- £99.00
SHURE SM58 ---- £99.00
SHURE BETA-58 £149.00

- AKG
- AUDIO-TECHNICA ETC...

PRICES FROM ONLY **£29.95!**

MONITOR-1...

WE HAVE LARGE STOCKS OF MONITORS INCLUDING THE FABULOUS ALESIS MONITOR ONES CALL FREE TO ORDER RIGHT NOW!

IN STOCK NOW FOR FREE U.K. DELIVERY

S-CRAFT ABS-2...

FOR FREE DELIVERY AND THE BEST POSSIBLE PRICE, CALL US NOW WITH YOUR CREDIT CARD HANDY!!!

IN STOCK NOW FOR FREE U.K. DELIVERY

ALLEN & HEATH GS1...

IF YOU ARE IN THE MARKET FOR A NEW MIXER, THEN LOOK NO FURTHER... THE ALLEN AND HEATH GS1 OFFERS UNPARALLELED QUALITY AND WITH OUR NEW MEGA PRICE AND FREE UK DELIVERY, IT HAS REDEFINED THE TERM 'VALUE FOR MONEY'... JUST GET ONE...

FREE METABRIDGE
£699.00
SAVE £100'S!

NEW PRICE

ROLAND JV1080...

HURRY, HURRY, HURRY... THESE DON'T HANG AROUND!

FREE 2 YEAR WARRANTY ONLY FROM SOUND CONTROL MINI ORDER!

IN STOCK NOW FOR FREE U.K. DELIVERY

ROLAND PC200 MK-2...

WITH ALL THE MODULES AND SOUND CARDS THAT WE STOCK, YOU WILL NO DOUBT NEED A QUALITY MASTER CONTROLLER KEYBOARD - SO HERE IT IS... THE PC200 MK-2 IS THE BEST ON THE MARKET.

IN STOCK NOW FOR FREE U.K. DELIVERY

AKAI STUFF...

ALL THE SAMPLERS... ALL THE ACCESSORIES... AND THE AMAZING NEW MIDI TONE MODULES - INCLUDING THE VINTAGE SYMMIA MODULE...

ZOOM 1202...

100'S OF EFFEX & FREE U.K. DELIVERY

NEW LOW PRICE

REV100/RV70...

TONS OF PATCHES, PROGRAMABILITY, MIDI & LOTS OFF RRP - DON'T MISS OUT... THE BOSS RV70 IS THE BIZ. AND SAVES YOU £200!!!

£199.00

DIGITECH...

JUST CHECK OUT THE REVIEWS ON THE STUDIO QUAD IT IS THE MOST FLEXIBLE QUALITY DIGITAL EFFEX UNIT TO DATE! - CALL US RIGHT NOW TO ORDER FREE IT WILL BE A LONG TIME BEFORE YOU GROW OUT OF THIS MONSTER OF AN EFFEX UNIT...

MEGA

VOCALIST-2

UP TO FIVE PART 'REAL HUMAN' HARMONIES ARE POSSIBLE WITH THIS FANTASTIC EFFEX. AND IT ONLY TAKES UP ONE UNIT OF RACK SPACE!! WHETHER YOU PLAY LIVE, OR RECORD FROM HOME, AND NEED GOOD HARMONIES WITHOUT THE FUSS, THEN THIS IS THE EFFEX FOR YOU.

£399.00

TSR-12 EFFEX

STONKING GOOD 'VALUE FOR MONEY' WITH THE QUALITY OF EFFEX ONLY FOUND ON MORE EXPENSIVE UNITS, THE TSR12 ALWAYS DELIVERS THE RESULTS. PROGRAMABILITY AND MIDI CONTROL ARE STANDARD, AS ARE A TWO IN, TWO OUT CONFIGURATION. THE TSR12 EVEN HAS ON-BOARD MIDI FILTERING AND MIDI MERGING - THIS IS A 'MUST BUY' EFFEX UNIT...

£299.00

fixing the mix

Conventional wisdom states that you can't 'fix it in the mix', but that doesn't mean you can't try! PAUL WHITE discusses a few practical salvage techniques in the first part of this short series.

In an ideal world, a producer decides what is to be recorded while the engineer is left to set levels, sort out routings, programme effects and so forth. In the typical project studio, however, the same person usually ends up having to do both jobs. If everything has been recorded perfectly, and if the musical arrangement is appropriate to the song, then it should be possible to set up an initial mix fairly quickly, using little or no EQ. But what do you do if the session didn't go so well and some of the recorded sounds are less than ideal? Worse still, you may be called upon to take over work on a poorly recorded job that was started at someone else's studio. That's when your skills at salvage work are really put to the test.

Over the past couple of months I've discussed ways of making good recordings and achieving good-sounding mixes [see 'Match Before You Mix' SOS May/June 1996], hopefully by avoiding most of the problems that I'm going to touch upon during the course of this article. I've also gone on record as saying that there's only a limited amount you can do to fix a bad recording, but provided not everything is disastrously recorded, it's usually possible to make some improvement on any mix. My approach here will be to look at specific problems and then propose possible solutions

PART 1: SALVAGE TECHNIQUES

or partial solutions using both basic studio equipment and, where appropriate, more advanced hardware.

The first option is invariably the most satisfactory, but for whatever reason, musicians often seem very reluctant to take it — if a track sounds wrong, either musically or technically, then simply re-record it. While this option may not be open to professional producers working with busy international artistes, it's usually possible to get Fred from down the road to come back and redo his out-of-tune bass part.

What follows is a catalogue of increasingly desperate strategies that may be applied if re-recording is not feasible. Recording problems break down into many types, some clearly defined, others less so. The most obvious technical problems relate to noise, distortion, EQ and spill, while the more artistic considerations include the wrong choice of sounds, poor timing, out-of-tune notes or just plain incorrect notes. As you might expect, the more serious the problem, the more difficult it is to do address it, but by using samplers and hard disk recorders, even out-of-time and out-of-tune playing can be improved if you have the patience.

GATING & MUTING

Probably the most common technical problem is 'noise', which could include tape hiss, instrument amplifier hiss, amplifier hum, and general digital grot from budget synths and effects units. You can attack noise on several different levels, and if the contamination is serious, you may need to use two or more of the following processes in combination. ▶



Drawmer DS201 Dual Gate.



It records 8 tracks
simultaneously,
at CD-quality,
it does this without
compression,
...and there's not a
tape in sight!



SLAVE D-80s for 16 & 24 TRACK RECORDING

The D-80 can be slave or master to other D-80's / DMT-8's and the outside world via its standard in-built MTC, and is sample accurate with Word Clock (optical S/P-DIF).

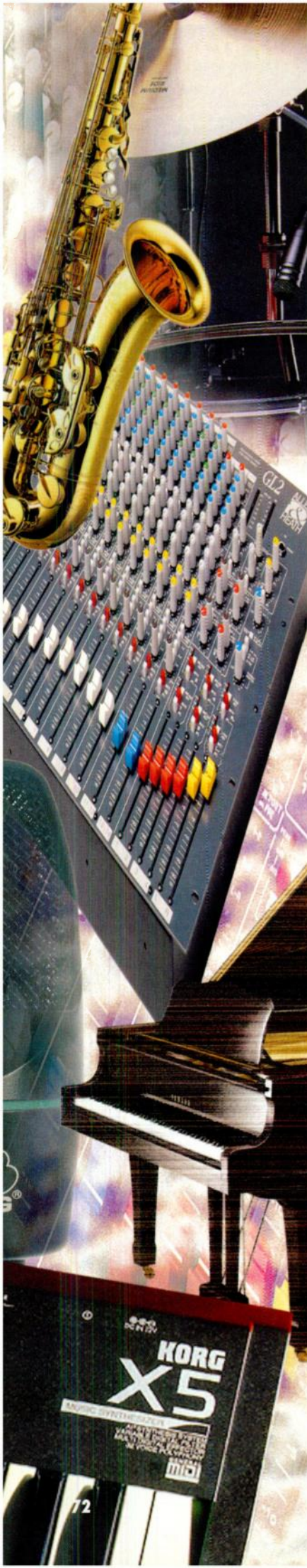
Finally, someone has developed an expandable IDE-based digital removable hard disk system which offers up to 40 minutes* of true *multitrack* recording, non-destructive 'cut, copy, move & paste' editing, instant locate & search, five 'virtual reels', digital and analogue inputs/outputs along with a full function auto locating remote control. And all in a package which is as easy to use as your tape machine and costs no more than £1,499 inc VAT. Naturally, that someone is Fostex.

D-80 Digital Multitrack



Exclusively distributed
by SCV London

For further information contact SCV London, 6-24 Southgate Road London N1 3JJ. Tel: 0171 923 1892. Fax: 0171 241 3644



fixing the *mix*

▶ A *noise gate* is a very effective means of removing unwanted noise during the pauses between sounds, and you'd be surprised how much you can clean up a mix by gating any channels that contain parts that do not play all the way through the mix. For example, if the lead

“I don't know of any technique that is entirely successful for rescuing a distorted lead vocal...”

guitar solo only pops up in the middle of the song, you don't want any background noise on that track contributing to the mix the rest of the time, so bang a gate on it. It's usually worthwhile gating vocals also, because there are always pauses between words or phrases where nothing useful is happening. However, don't feel you have to gate out traces of breath noise, otherwise the vocal track may well end up sounding unnaturally sterile.

With any slowly decaying sounds, make sure you set an appropriately long gate release time. Even if some gated sounds appear to be slightly unnatural, there's a good chance they'll sound fine when you add reverb, especially when the rest of the mix is playing.

Closely related to gating is MIDI *muting*, often found on upmarket mixers. Although it isn't usually practical to use this to clean up tiny pauses between individual words or phrases, it is very useful nonetheless for temporarily shutting down tracks when they're not required in the mix. Obvious uses are to mute the guitar solo track until it's needed and to mute the vocal tracks during instrumental passages.

NOISE REDUCTION

A more subtle alternative to gating and muting is the *single-ended noise reduction* (SNR) unit. Gates and mutes can only remove noise when they are closed, and no signal is allowed to pass — they

can't do anything about noise (such as hiss) that's audible over the top of the wanted signal. Single-ended noise reduction units, however, employ variable-frequency low-pass filters that open and close according to the level and frequency content of the music being treated. Though by no means perfect, a decent SNR can significantly reduce audible noise, both during pauses and when material is playing, without inflicting too much damage on the wanted signal.

As with any processor, if you ask too much of it, side-effects will show up. In the case of SNRs, typical side-effects can include audible dulling of the signal (if you try setting the threshold too high) or the over-processing of reverb tails. For this reason, whenever possible it is best to route signals through an SNR prior to

adding reverb, and if you have several channels that you think would benefit from the treatment, route them all to a stereo subgroup and patch the SNR unit into the group insert points.

EQUALISATION

An often forgotten ally in the war against noise is the *equaliser*, but the EQ in a typical mixing desk may not be flexible enough to do the job properly. A good graphic equaliser is more versatile, but for the ultimate in control, you need a good parametric EQ.

Changing the EQ of a signal is obviously going to have some effect on the overall sound of that signal, but quite often you'll find your mix includes sounds that occupy only a limited part of the audio spectrum. For example, an overdriven electric guitar contains no really deep bass and the top end rolls off very quickly above 4kHz or so, because of the limited response of a guitar amp's loudspeaker. This being the case, you can apply a sharp top cut above 4kHz and a low cut below 100Hz without changing the guitar sound too significantly. You'll need to experiment to discover the exact frequencies, but you'll find this technique very useful, not only with guitars (and bass guitars) but also with warm synth pads from cheap or vintage instruments. Careful use of EQ may also help to reduce the effect of finger noise on stringed instruments.

If you don't have a parametric equaliser, you ▶

KEEP THE NOISE DOWN

- All noise reduction techniques work better when applied to individual tracks rather than to entire mixes, though digital noise reduction systems and SNR units can be used on complete mixes providing the amount of processing is carefully controlled.
- To clean up a reverb, try putting a gate or SNR on the reverb input. Most allegedly noisy reverb units are actually victims of noise fed from the effects buss. Any attempt to treat the reverb output is likely to result in the reverb decay being modified

in an unnatural manner.

- Even if you think your recording is astoundingly quiet, you will probably still hear an improvement if you gate or otherwise mute mixer channels when the track isn't playing anything.
- Always switch your noise treatment in and out to hear what difference it is making to the wanted part of the sound. Listen in particular for noise 'breathing' (the effect of the noise floor level changing as the noise gate or mute opens). In the case of EQ and SNRs, listen for high frequency timbral changes, especially at the ends of decaying sounds.



IN ASSOCIATION
WITH



PRESENTS THE FIRST SHOW OF ITS KIND...

DANCE TECH '96

an exclusive hands-on exhibition dedicated to DJs, Remixers & Producers

Enter the creative world of dance music production

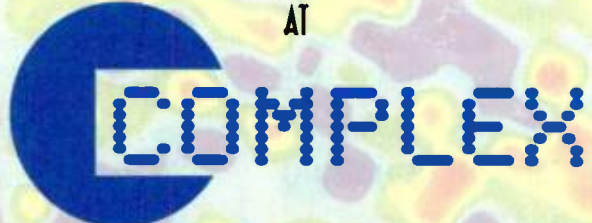
See, hear and demo the latest state-of-the-art dance music production tools from the worlds leading equipment manufacturers:-

- | | | | | |
|---------------|------------------|---------------------|----------------|---------------|
| ROLAND | KORG | TECHNICS | VESTAX | JBL |
| AKAI | NOVATION | INTIMIDATION | PIONEER | DBX |
| YAMAHA | KURZWEIL | GEMINI | DENON | AHB |
| EMU | ALESIS | KAM | STANTON | FOSTEX |
| C-LAB | STEINBERG | SOUNDCRAFT | ECLER | SCV |

SPECIAL GUEST APPEARANCES BY

MARSHALL JEFFERSON
&
BILLY NASTY

AT



SPECIAL GUEST APPEARANCES BY

COLIN DALL
&
DJ RAP
&
GAYLE SAN

1-5 PARKFIELD ST, (off Liverpool Rd) ISLINGTON, LONDON N1
nearest tube station: ANGEL (Northern Line)

SPONSORED BY



TRIBAL GATHERING '96



SUNDAY 7th JULY 1996 1.00pm to 6.00pm

ADMISSION PRICE £3.50 ON DOOR (£3.00 IN ADVANCE)

LICENSED BAR

AVOID THE QUEUE AND THE WAITING - BUY YOUR TICKETS IN ADVANCE. TEL: 0171 609 3939

FREE ENTRY INTO DRAW FOR
SIX COMPLEX VIP TICKETS
FOR A "YOYAGER" OR
"KINGSIZE" CLUB
NIGHT OF YOUR
CHOICE

fixing the *mix*

► can use the side-chain filters in a Drawmer DS201 gate as equalisers, simply by leaving the gate in Key Listen mode. This particular gate has very steep shelving filters which can be used to 'bracket' the wanted sound. The Low filter will keep out bass rumble and hum while the High

sophisticated systems can probably double that figure.

Many of these systems work by first splitting the signal into a very large number of frequency bands. A software algorithm is then used to decide how much noise is present in each band and a separate threshold is set for each band (normally an automatic procedure handled by the software) below which any residual signal is assumed to be noise. It's almost like having separate intelligent noise gates working on several hundred very narrow frequency bands. If you push such systems too far, however, whatever noise is remaining may be heard occasionally peeping through the various filters. This produces a sound almost like distant wind chimes. Again, the more sophisticated systems are less likely to suffer from this problem, but if you hear it, at least you'll now know what it is.

These digital solutions can be applied to individual tracks (or sections of tracks), by copying them from tape onto hard disk along with their timecode reference. Using timecode is a good idea, otherwise you may find it difficult to copy the processed audio back onto the multitrack in the right place after you've cleaned it. If you must work without timecode, then deal with short sections and 'fly' each one in by hand as

though you were playing back from a sampler. Ideally you should put the processed audio onto a spare tape track, but if you don't have any, you may have to risk recording it back over the original.

NON-RANDOM NOISE

Mains hum or buzz from fluorescent striplights can be a serious problem, because as well as the fundamental frequency of 50Hz (or 60Hz depending on which country you live in), there's often a whole string of related harmonics present that run right across the audio spectrum. High-

filter will reduce hiss and digital grot (my technical term for non-random noise and/or whining produced by budget digital synths and sound cards!).

It is vitally important to keep in mind that noise is cumulative, and though individual tracks may appear reasonably clean when listened to in isolation, when you bring up all the mixer faders, the overall background noise can still be quite significant, especially if you have 16 or more tracks (including virtual MIDI tracks) on the go. Anything you can do to reduce the noise contribution will greatly improve the clarity of your finished mix.

OFF-LINE DE-NOISING

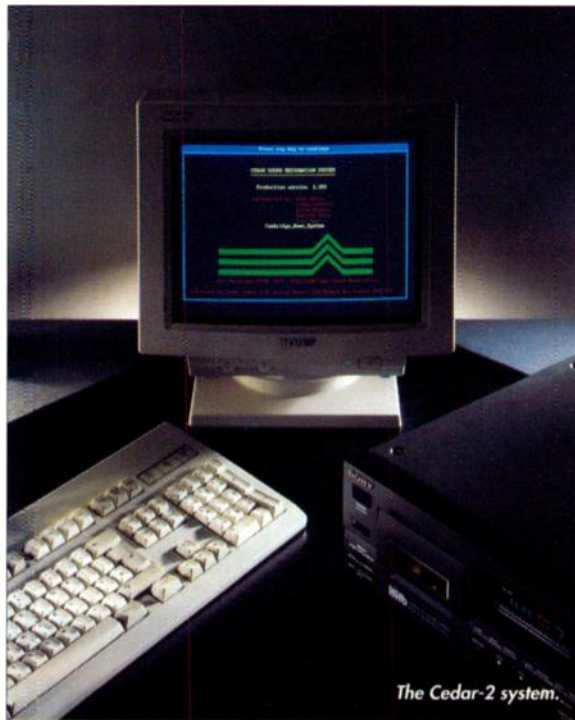
Some of the more serious hard disk recording systems offer digital de-noising, which tends to provide a far more effective solution than the simple analogue processing discussed so far. Roland build a stand-alone digital SNR unit which is well worth investigating.

De-noising systems such as Digidesign's *DINR* software (or the more upmarket CEDAR and Sonic Solutions' NoNoise packages) may be used to reduce the level of background noise by several dBs without introducing audible side-effects. The simpler systems typically allow you to reduce the level of noise by as much as 5 or 6dB without any side-effects showing, while the more

“You'd be surprised how much you can clean up a mix by gating parts that do not play all the way through the mix.”

pass filtering may well take be used to remove the hum component altogether, but you'll still be left with an irritating buzz.

Roland's single-ended noise reduction devices are particularly good at dealing with this problem, ►





EUROPE'S NO.1 DANCE TECHNOLOGY SPECIALIST

SYNTHS · SAMPLERS · WORKSTATIONS · SEQUENCERS · HARD DISK RECORDING · DESK TOP MUSIC PRODUCTION

OPEN SIX DAYS A WEEK
MON-FRI 9.30AM-6.00PM
SATURDAY 10.00AM-6.00PM
SUNDAY-CLOSED



SYSTEMS UPDATE

INTELLIGENT DRUM & BASS PROGRESSIVE HOUSE SOULFUL GARAGE NEW ENERGY TECHNO
ULTIMATE STORE FOR DANCE REMIX & SOUND PRODUCTION

With such choice of equipment for you to realise your ideas before somebody else. Remix existing tracks & sounds with creative sampling. We can assemble Project and Home Studios which identify your needs and suit your hard earned budget. Call Paul or come and evaluate this cool gear in our dedicated Studio Suite.

0% FINANCE - BUY NOW PAY LATER - CALL FOR DETAILS

WORLDWIDE ENQUIRIES WELCOME
FAX US ON
+44 171 609 1310

MAIL ORDER SPECIALISTS
24 HOUR EXPRESS DELIVERY SERVICE

AKAI

CREATIVE DJ
IMMIGRATIVE NEW PRODUCT

REMIX 16

DONT

Roland

HOT NEW PRODUCT

GROOVE BOX
MC-303

DELAY!

E-MU

ORBIT
+ LAUNCH PAD

THE DANCE PLANET

THE

Roland

HOT NEW PRODUCT

CREATIVE DJ
IMMIGRATIVE NEW PRODUCT

DJ-70 MKII

ORDER

YAMAHA

HOT NEW PRODUCT

CS1x

TODAY!

novation

DRUM STATION
+ BASS STATION

BEST

Roland

XP-80
MS1

OUT NOW!
Falcon MKX +
Cubase Audio
V2.05

POA

waldorf

PULSE
IN STOCK NOW!

IN

Roland

1Gb Jaz Drives
in stock!

VS-880
VS8F1

AKAI

S2000 & S3000XL

DANCE!

AKAI

SG01v

PLEASE

YAMAHA

SU-10

PHONE

KORG

Prophecy

FOR

E-MU

ES132

ADVICE

Roland

DANCE

JV1080

AND

TASCAM

DA20

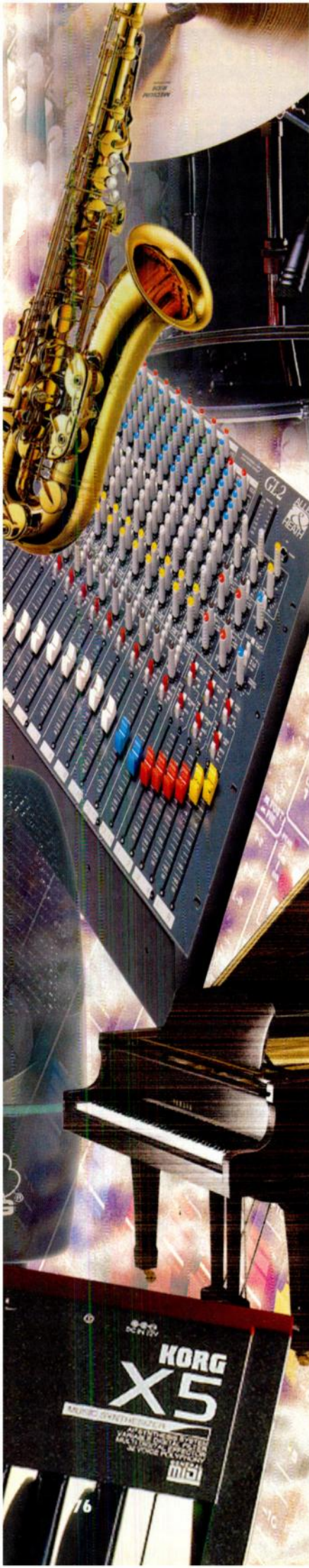
PRICE!

WE CUT IT EVERY TIME

EFFICIENT MAIL ORDER!
INTEREST FREE FINANCE!
UNBIASED PRODUCT ADVICE!
QUALITY CUSTOMER SERVICE!
RELIABLE AFTER SALES SUPPORT!
HASSLE FREE DEMOS!
NO APPOINTMENT NECESSARY

0171 700 4242 0171 700 4442
FAX US ON 0171 609 1310

ADELAIDE HOUSE, 383-385 LIVERPOOL RD,
ISLINGTON, LONDON N1 1NP
E-Mail: 100610,2341@compuserve.com



fixing the *mix*

▶ because they employ a whole series of digital filters which create narrow notches in the frequency spectrum corresponding to both the odd and even harmonics of the fundamental hum frequency. A similar technique is employed by Digidesign's *DINR* software, when used in hum removal mode, and a clever search algorithm enables the filters to lock onto the hum automatically. However, attempting to attenuate the hum by too much can cause audible side-effects — the notch filters start to work on the wanted audio, creating a slight 'phasey' effect.

A lower tech approach is to use a multi-band parametric equaliser with the lowest band tuned to the fundamental hum frequency (eg. 50Hz) and the following filters tuned to double (100Hz), three times (150Hz), and four times (200Hz) that unwanted frequency. The filters should be set for the highest Q (ie. a very narrow band) and the cut function applied until the hum problem is reduced.

This method will only be partially successful, because the multi-band parametric won't have enough filter bands to tackle all the hum harmonics, but you should still be able to make a noticeable improvement. In most situations, the fundamental plus the first few harmonics will be the loudest elements, with the higher harmonics being much quieter. Each filter will have to be tuned in by ear and it may be useful to bypass all the filters apart from the one you're tuning, so that you can hear exactly what effect each filter is giving you. Once you've optimised the individual filter settings, you can switch all the other filters back on.

As mentioned earlier, the Low filter on a Drawmer DS201 gate can also be useful in removing the low frequency components of hum. What's more, the hum may only be clearly audible during pauses in the signal, so gating could be applied here in the same way as to tackle broad-band hiss.

DISTORTION

Distortion is a particularly difficult problem to deal with and I don't know of any technique that is entirely successful for rescuing a distorted lead vocal or overdriven acoustic instrument sound. In theory, there are elaborate digital processes that could be used to reconstruct distorted waveforms, but in the smaller studio the most useful tool is probably the equaliser.

Before you reach for the equaliser, there may be an even better way out. If the distortion occurs only in one or two places, then my first thought would be to look for identical passages (or even individual notes) elsewhere in the music. If these exist, you can sample them and then drop them in over the top of the original sections. As always, work on a spare track using a copy of the original part if at all possible, because it's very easy to make something worse if the drop-in doesn't go your way. If you have access to a hard disk system, this is where you'll come to appreciate the joys of cut-and-paste editing.

To tackle distortion successfully, you need to understand a little about what it is. Distortion is caused when a circuit is driven into clipping or when an analogue tape is driven into saturation; the usual outcome is that a whole series of harmonics are generated, some of which can sound very unpleasant. Because the harmonics are higher in frequency than the basic pitch of

FILTERING OUT DISTORTION

I've used the High filters of a Drawmer DS201 gate on more than one occasion to try to 'skim off' some of the top end from a distorted signal. Of course any variable-frequency, low-pass shelving filter with a 12dB per octave slope (or greater) will also do the job, it's just that most studios have a DS201 in their rack somewhere.

To create a sharper filter, you can patch the right channel of the DS201 (or other filter) into the second channel and set both Frequency controls to the same value. In theory, this will double the filter roll-off rate (giving 24dB/octave) providing greater attenuation of

frequencies immediately above the cutoff point. Any parametric equaliser which includes a shelving low-pass filter will also work nicely.

Tape tracks containing instruments such as electric guitars or bass guitars may also be played back through guitar combos and remixed — the speakers will act as filters while the amp EQ also gives you the chance to polish up the basic tone if need be. The same technique can be used with distorted synth sounds, but please realise that this is a last resort and distorted parts should always be re-recorded if at all possible.

the sound being distorted, it is sometimes possible to reduce their effect by applying high-cut filtering, but in most instances this will also affect the wanted sound. Even so, a slightly dull acoustic guitar might sound better than a distorted one.

Just occasionally, you'll find you can hide undesirable distortion by applying even more distortion to the whole track, but this is more likely to work on an artistic level when applied to guitars and synths than it is to, say, vocals or piano. Having said that, distorted drums and even vocals can be useful in certain styles of dance music, though you're unlikely to get away with it if you're mixing a ballad.

REMEMBER . . .

Whatever you do, try to get away from the old idea that you can hide a serious error by recording something over the top to distract the listener's attention. If it is a drumstick click, you might just be able to overdub a vibraslap or a tambourine, but it has to be artistically appropriate — and even then, it will only work if the sins being masked are very minor. Back in the hippy '70s, we used to joke that if we had a lousy mix, we could always flange the whole song!

Next month, I'll be looking at the evils of vocal popping, out-of-time playing, tuning problems and musically inappropriate sounds.

SOS

YOU DON'T NEED BBE

Until you hear it!

Then your point of reference is forever changed.

"There is an added fullness and clarity. Stereo program becomes more three dimensional, more spacious. Dense textures become more pleasurable, with a more palpable space around each discrete instrument. This is powerful stuff. Maybe its voodoo?"

Recording Magazine

"As close as we've seen to a magic black box, the BBE 462 is probably the most cost-effective improvement you can add to your rig."

Guitar Player Magazine

"Listening on a variety of loudspeakers - JBL, KRK, Meyer, Tannoy, Yamaha and a few lesser-known names - I discovered that the BBE Process provided a nice punch to older recordings without being brittle or shrill. The LF contour emphasized the bottom end, without undue boominess."

MIX Magazine

"All of the mixes we played gained extra sparkle and clarity when processed with the BBE 462."

Keyboard Magazine

GO HEAR WHAT YOUR EARS HAVE BEEN MISSING.

A 30 second demo is all you need. Call your dealer now!



BBE®

M.A.D. (Music & Audio Distribution) Ltd, 10 Station Parade, Willesden Green, London NW2 4NH. Tel: 0181 452 1009. Fax: 0181 452 9019



COMPUTERS

Authorised Apple Reseller



Apple 5200.....15" monitor built in & keyboard.....from **£999**
 Apple 7200.....17" monitor & keyboard,**£1049**
EX DEMO MAC & PCS ALWAYS AVAILABLE



CUBASE
 Lite, Score, & Audio for Mac, PC & Atari
 Audiomedia
 Cubase AudioV3...offering full Pro Tools III Support
 ALSO TDM Plug Ins
EMAGIC
 Logic V2.5 & Audio
 Audiomedia & Logic bundle, **£1299**
 PowerMacs & Performas
 486 & Pentium PCs
OPCODE STUDIOVISION

DRIVES

**NEW SYQUEST EZI
 135MB INC
 CARTRIDGE.
 £225**



1 GB QUANTUM FIREBALL AV SCSI EXTERNAL.....£359
 1 GB QUANTUM FIREBALL AV SCSI INTERNAL.....£259
 1GBMICRODISK.....£649
 2GB MICRODISK STACKABLE EXTERNAL.....£899
 9GB MICRODISK.....£2759
 SEAGATE 525MB INTERNAL.....£139
 SEAGATE 525MB EXTERNAL.....£199
 SYQUEST 270MB.....£535
 SYQUEST 88MB.....LOW!
 FUJITSU 230MO EXTERNAL.....£619
 FUJITSU 230MO INTERNAL.....£495
 170 MB INTERNAL.....£149
 532MB EXTERNAL.....£349

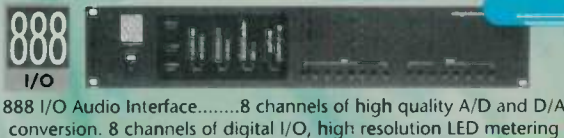
**DRIVES FROM 500MB TO 9GB!
 REMOVABLE DRIVES FROM
 100MB TO 2.8MB!**

HARD DISK RECORDING

DIGIDESIGN

Pro Tools III

Pro Tools 3.21 PCI...Increased DSP processing power over NuBus equivalent, runs on new Apple PCI range, DSP farms now integrate with 888 I/O & 882 I/O interfaces, TC electronics & TC Tools Focusrite TDM Plug Ins available



888 I/O Audio Interface.....8 channels of high quality A/D and D/A conversion. 8 channels of digital I/O, high resolution LED metering



- We don't just sell Digidesign we use it •
- Our support is unrivalled •
- Personal demonstrations in a studio environment •



Pro Tools Project PCI...Now shipping. Adat Interface 888 I/O & 882 I/O compatible, volume and pan automation, 8-16 tracks playback, full file compatibility with Pro Tools 3.21

**PRO TOOLS & PCI EVENING SEMINAR 13TH JUNE
 PHONE NOW TO BOOK YOUR APPOINTMENT &
 COME ALONG TO OUR DIGIDESIGN BAR-B-Q!**

SOUNDSCAPE

8 Tracks upwards
 Real time digital eq
 Digital mixing
 Locks to any sequencer using the same PC.



Expandable up to 128 tracks, Timestretch Option, Removable Drive Option, Balanced Ins & Outs Available
RS422 & REVERB PLUG IN COMING SOON

AUDIO CD & CD ROM RECORDERS



Marantz CDR 620.....multi-functional CDR620 sets new standards, top quality A/D and D/A converters, sample rate converter, digital audio delay and fully automatic indexing from CD, DAT, DCC and MD sources.....Call for more info

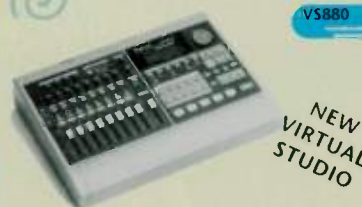
- PINNACLE RCD1000 • MARANTZ CDR 615 •
- YAMAHA CDE100 • JVC PERSONAL ROM MAKER •
- PHILIPS CDD522 • MICRONET MCD + •
- RICOH R59 200 CD • SONY CDW900E •

• We can supply CD ROM drives for all samplers and computer packages • Overnight Delivery Available •

DEDICATED HDR

ROLAND

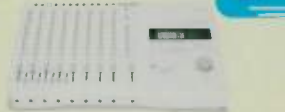
VS880



VS880.....8 track HD recording, 64 virtual tracks, 6 simultaneous recording, 32, 44.1 & 48kHz record rates, 14 mix channels, (including 8 tape tracks) 8 bus routing, 2 aux sends, 8 inputs, 2 analogue stereo outs, 2 Dig I/O.....**Phone for more information**

FOSTEX

DMT8



Fostex DMT-8.
 New Tapeless multitrack with built in IDE drive and mixing facilities **IN STOCK**

EMU

Darwin



Emu Darwin....8 track hard disk recorder, LCD track edit display, advanced MMC & MTC, internal digital mixer.....**CALL**

AKAI

DR16



**WE ARE A LEADING AKAI SUPPLIER.
 PROFESSIONAL ADVICE AT THE
 LOWEST PRICES**

• **CALL US NOW.** •
 PERSONAL DEMONSTRATIONS AVAILABLE

VESTAX

**THE Lowest
 Price on Vestax
 HDR6**



FOSTEX

2000RE

Fostex 2000RE
 Digital Recording,
 Editing & Mixing
 System, 16track,
 touch screen
CALL





RECORDING SERVICES

One Off CDs

One off CD-R only.....**LOWEST EVER PRICES!!**
 PQ Encoding to CD.....£40

Studio Hire

16/24 Track digital studio hire: Kurzweil & Akai samplers, Cubase Audio, Session 8, a wide range of synths and outboard from... **£15 per hour**

ALLEN & HEATH SEMA 24, PRO TOOLS III, KURZWEIL-K2000, AKAI S1000, AKAI S3000, NEVE 9098 EQ, PANASONIC SV3700, TECHNICS PRO DI DUCK, ROLAND U110, ROLAND D550, ROLAND MK550, ROLAND 09, ROLAND SH101

RECORDABLE CD



MULTITRACK

ALESIS

What XT



NEW XT AS REVIEWED IN SOS 4 times faster, intel igent transport, onboard digital editor with track copy, auto punch, track delay, tape offset, onboard autolocator & loads more!.....CALL US NOW
TMC are selling our own studio adats, last chance to get one!!.....£1899

SONY

PCM8000



PCM8000 high quality, digital multitrack, AES/EBU digital I/O, up to 110 minutes continuous recording.....CALL NOW

TASCAM

DA88



DA88..post production quality, digital linear 8 track, over 100 mins recording time.....CALL

FOSTEX

Fostex D80 8 track

Up to 40 mins of simultaneous 8 track recording and playback utilising IDE removable, caddy held hard disks, 16 bit linear resolution digital to analogue conversion at a sample rate of 44.1kHz, removable front panel remote...ARRANGE YOUR DEMO NOW!

NEW & EX DEMO

ONCE ONLY OFFER!

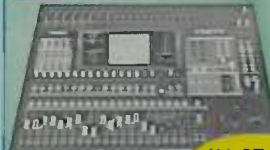
SOUNDTRACS SOLO MIDI 16/8/16/2 & ALESIS ADAT V4 & FREE LOOMS
£3200.00

- Fatar Ex Demo S2001.....£899
- Mackie 1604.....£675
- Yamaha SY35.....£349
- Kawai G Mega Synth.....£435
- Teac 34.....£500
- Alesis Adat.....£1899
- Roland MT120.....£499
- Behringer Ultraflex (1).....£175
- Kawai RV4.....£449
- Tascam DA20.....£679
- Behringer Intelligate.....£259

MIXING CONSOLES

YAMAHA

O2R



On board automation of all digital mixing parameters. 40 input channels & 2 full featured stereo internal effects returns. 4 band fully parametric digital equalisation (automatable) on all channels.

IN STOCK

Call to arrange your personal audition

Pro Mix



Fully automated 18:2 digital console; 24 bit digital mixing; 50 snapshot memories Fully editable 36 bit 3 band parametric EQ.

MACKIE

12.8



Professional 8 Bus Console 16/24/32 Available 24 Channel expansion available n stock NOW Come in for your personal audition

8 Buss



1202VLZ



BEHRINGER

Eurotrack



LOWEST UK PRICES

Eurotrack...8 mono input channels with insert points and direct outputs, 4 stereo inputs channels, 3 band eq on all channels, 6 aux sends and much more!

- Eurodesk MX8000 24/8/2,
 - Superb eq
 - 6 stereo aux returns
 - 48 channels mixdown
 - 6 aux

SOUNDCRAFT

Ghost



New GHOST...IN STOCK



Studio 16....total input gain control, two foldback sends, four band swept eq, tape send on every channelDEMO AVAILABLE

SOUNDTRACS

Topaz 24 & 32 channel, new automation system available

STUDIOMASTER

P7..Digital quality in-line console Expandable to 40 channels. New meter bridge option available

ALLEN & HEATH

GS3 16 channel console expandable to 24 with mute automation

PHONE THE M CORPORATION FOR PROFESSIONAL ADVICE AND FULL BACK UP SUPPORT

DATS

TASCAM

DA30MK II



DA30 Mk II....44.1, jog & shuttle, balanced I/O,AES & SPDIF.....CALL NOW



DA20..SCMS defeat function, 2 heads, 44.1, professional quality.....LOW PRICE

PIONEER

Pioneer D9601 96/88.2/48/44.1 KHz recording. XLR analogue I/O AES/EBU & S/PDIF I/O. Machine control.....IN STOCK

PANASONIC

SV3800

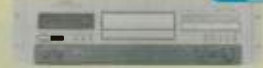


NEW SV3800....exceptional sonic quality, multiple digital interfaces, shuttle search & single programme play.....IN STOCK

FOSTEX

D3

Fostex D10 & D5



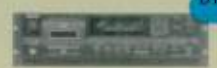
SONY

D7

New Portable D8 with 44.1kHz analog input!!
 Sony Portable TCD D7.. only a couple left!



DTC A8



Sony DTC A8.super bit mapping, 44.1kHz, digital I/O, 4 motors & 2 heads.....IN STOCK

SYNCS

IN STOCK • OVERNIGHT DELIVERY • LOWEST PRICES • PROFESSIONAL ADVICE & SUPPORT •

| | LTC | MMC | MTC | SMTE | ADAT | DA88 | VITC |
|-----------------|-----|-----|-----|------|------|------|------|
| BRC | | | | | | | |
| CUERPOINT | | | | | | | |
| DATAMASTER | | | | | | | |
| DATASYNC | | | | | | | |
| PPS 2 | | | | | | | |
| PPS 100 | | | | | | | |
| AC1 | | | | | | | |
| A12 | | | | | | | |
| SYNC | | | | | | | |
| VIDEO SYNC | | | | | | | |
| SMART SYNC | | | | | | | |
| SYNCSMAN | | | | | | | |
| VIDEO TIME FREE | | | | | | | |



The M Corporation Head Office & Mail Order
 The Market Place Ringwood Hants BH24 1AP

01425 470007



OUTBOARD

BEHRINGER

Intelligate

Computer

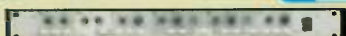


- AUTOCOM MDX1000 •
- COMPOSER MDX1100 •
- MULTICOM MDX2400 •

WE ARE THE LOWEST IN THE UK

AMEK

9098 EQ



9098 NEVE EQ.....£1099

"The sound of Class A without the cost"

THE M CORPORATION HAVE ONE EX DEMO NEVE 9098EQ AT AN UNBELIEVABLE PRICE!

ALESIS

Midiverb IV



Alesis Midiverb IV.....LOW PRICES
Alesis Q2.....£CALL
Alesis Microverb III.....IN STOCK

DIGITECH



Digitech VHM5 Vocalist.....£499
Digitech RP1.....£389
Digitech Studio Quad.....IN STOCK

ROLAND

E660



E660 Stereo digital EQ • Pre + post delay • Hum canceller • Balanced + unbalanced analogue • SP DIF + optical I/O • 28 bit internal processing • 99 memories • Full MIDImplementation.....£549

Lexicon Alex£319
Lexicon PCM80.....LOW
Lexicon Reflex.....£379
Lexicon LXP15 MK IIIN STOCK

NEW YAMAHA PRO R3

- ART •
- ZOOM •
- TL AUDIO •

WE SUPPLY ALL THESE LEADING BRANDS AT THE LOWEST POSSIBLE PRICES

DBX 363X.....£LOW
DBX 150X, 2 Channel.....£IN STOCK
LA Audio CX2.....£CALL
Ensoniq DP2.....£LOW
Ensoniq DP4.....£IN STOCK

DRAWMER

1960



FULL DRAWMER RANGE IN STOCK
PROFESSIONAL SERVICE
THE LOWEST PRICES

MONITORS

SILVER

SL & BH

Silver SL & BH closefield monitor system

Fully shielded, time aligned monitors will deliver a balanced mix at just 50cm. These precision tools will complement any existing set-up and provide incomparable stereo placing of your mix.

Exclusively from The M Corporation.

Silver SL(pair).....£735

Silver BH(pair).....£675

CALL FOR DETAILS OF THE NEW 10L MIDFIELDS



SOUNDCRAFT

Absolute 2's



Absolute 2s.....£249

ALESIS

Monitor 2's



LOWEST UK PRICES ON ALESIS

Monitor 1



JBL



Tannoy



ALL MONITORS AVAILABLE FOR DEMONSTRATION IN OUR STUDIO, OR WHY NOT TAKE ADVANTAGE OF OUR FREE LOAN SERVICE?

AMPLIFIERS

SAMSON

Servo 500



Servo 500... Rack Mount Power Amp (3 space), designed for studio & live use, 250 watts per channel @ 1kHz, 4 OHMS, Mono Bridgeable to 500 watts.....IN STOCK

ALESIS

RA100



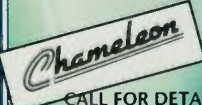
Alesis' industry standard studio reference amplifier. Clean, accurate amplification for reference monitors and live use. 100 watts per channel,

4 ohms.....£275

Alesis Matica Range In Stock • High Speed Wide Bandwidth Dual Channel Power Amplifiers •

CHAMELEON

Chameleon



CALL FOR DETAILS OF THE NEW CHAMELEON RANGE OF AMPS

C AUDIO

C Audio



C Audio RA Series...three high performance stereo amps, long term performance and operational reliability.....CALL

OMNIPHONICS FOOTPRINT, 1U RACK AMP ALSO IN STOCK, CALL NOW!

MASTER KYBDS

KURZWEIL

PC88



Kurzweil PC88, 88 note master keyboard, 120 internal sounds inc the renowned Kurzweil piano voices, weighted keyboard.....CALL NOW

Also available PC88MX, offering 64 voice polyphony & 400 new sounds AVAILABLE FOR DEMONSTRATION

FATAR

S1100

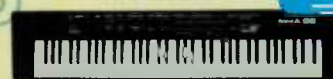


Studio 1100...88 weighted keys, 2 MIDI outputs

- Studio 49 • Studio 610 • Studio 610+ •
- Studio 900 • Studio 900FC •
- Studio 1100 • Studio 2001 •
- Full Range in Stock •

ROLAND

A33



A33...user friendly MIDI kybd controller, 76 weighted keys, velocity sensitive, 2 MIDI outputs, 32 patches for instant selection.....CAL

MICROPHONES

AKG

C414

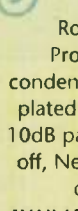
C3000



FULL AKG RANGE IN STOCK

RODE

NT2



Rode NT2 Professional condenser mic, gold plated diaphragm, 10dB pad & bass roll off, Neumann U87 quality

AVAILABLE FOR LOAN

NEW RODE CLASSIC IN STOCK

TCX50



ALSO AVAILABLE
Beyer
Audio Technica
Shure
Sony
Neumann



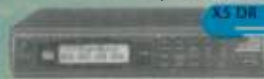
SYNTHESIZERS

KORG

NEW!



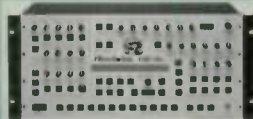
Trinity...4 versions available ranging from 61 key to the all in one Trinity Pro X 88 key weighted version. Call to arrange your personal demo



KORG X3, X5 & I3 ALSO IN STOCK
CALL FOR THE LOWEST PRICES

OBERHEIM

Oberheim OBMX.....Analogue synthesizer,
front panel means instant gratification!!
Call for details.



ROLAND

Roland new
M Series
Modules
Call for details
and the lowest
prices



Roland's popular
JV1080
64voice polyphony,
32 bit processor
.....CALL



ALL EXPANSION BOARDS AVAILABLE FROM STOCK

NOVATION

Novation Bass Station Rack
Classic analogue sounds with full midi
specification. 99 memories, analogue filter
input..... NEW LOW PRICE



EMU

**LOW
PRICE**



ALESIS



Vintage Keys



Q56

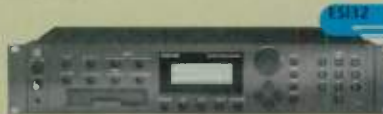
Emu Classic & Vintage Keys,
Morpheus & Proteus
ALL AVAILABLE

Classic Keys

Quad Plus

EMU

ESI-32 32 voice polyphony,
digital filters, time compression,
EIV compatible. Audition
sample from hard disk, with
8MB expansion.....£1225



EMU E-IV, 128 note poly, 128
digital filters, up to 128 Mb
RAM, 18bit DACs 128 x
oversampling ADC, 32 part
multi timbral, 8 balanced
polyphonic outs.
Call for details.



LOWEST UK
PRICES
PROFESSIONAL
ADVICE

SAMPLERS

KURZWEIL

THE U.K.'S NO.1 K2000 DEALER

V3.0



V3.0 adds a 32 track sequencer,
realtime mix automation, disk
macro facilities, sample audition
over SCSI.



K2000 V3.0.....£1899
K2000 V3.0, 8Mb & EZ135.....£LOWEST IN THE UK
V3.0, 8Mb & sample option.....£2499

Also available P-RAM, Orchestral & Contemporary ROM 'Blocks'

K2500

K2500
KEYBOARD...76 &
88 NOTE WEIGHTED
SAMPLE OPTION
NOW IN STOCK



K2500...48 note polyphony • 192 oscillators • dual SCSI ports •
• 32 track sequencer • digital I/O • up to 128Mb RAM • Optional digital
multitrack I/F • Sampling Option • Quad Stereo FX Buss Module •
• Compatible with K2000 Library •

AKAI

Akai's New
Simm Based
Samplers



All drive options
All upgrade options
The best service
The best support
The Lowest prices



Call us to find out why
we are one of the most
successful Akai dealers in
Europe.

ROLAND



S760.....24 note polyphonic, in built SCSI,
2Mb expandable to 32Mb,

If you're serious about samplers, call us NOW!



The M Corporation Head Office & Mail Order
The Market Place Ringwood Hants BH24 1AP



01425 470007

I'm surprised someone hasn't brought one out before; a rack device dedicated to reproducing the two most sought-after drum machines to hit planet Earth in the last million years or so: Roland's TR808 and TR909. Novation have already made lots of friends with their BassStation synth, and have now turned their beady eyes on the drum box market. Using a combination of samples and Analogue Sound Modelling (or ASM if your brain has storage space for the acronym), you can build a kit featuring sounds from both the TR808 and TR909 with all the means of modifying the sounds that has made these drum machines so popular. The one thing lacking is Roland's neat method of programming rhythm patterns, but if you opt for a convenient MIDI rack device instead of the real thing, the chances are you're after the sounds, and

not just the 'pose value' of owning the original. So, how closely does it resemble the real thing sonically? The answer is pretty damn close. I managed to borrow a TR808 to try alongside it, and working on an 'eyes closed' method, found the most obvious difference was the way the TR808 was programmed. With *Cubase's* drum editor, I could get near to the programming style, but I wouldn't attempt to convince the 'original is best' advocates who hold to their beliefs at all costs — even when faced with machines held together by sellotape and bits of string.

APPEARANCES ARE INFORMATIVE

Housed in a 1U rack module, the DrumStation is decked out in a tasteful combination of pale yellow and grey on a black background, and packed with

ACTION

NOVATION DRUMSTATION DRUM SYNTH MODULE



rotary pots, switches and rubber 'calculator-style' pushbuttons. Although small, these controls are well conceived and accessible. A small red 2-character display conveys the various messages, program numbers and the like to the outside world. The manual, though excellent, was hardly needed at all — if I had to stoop to a cliché at this early stage in a review, it would be that this is an intuitive machine. On the far left is the master volume, which is notable, because it can be overridden by a MIDI control change 7 message at any time. Presumably Novation have a reason for this, but I found it pretty disconcerting. When I turn something down, I like to be sure it will stay down...

Two buttons to the right of the master volume select which drum kit is to be edited. Since some of the features of the TR808 and 909 differ, those

means that you get to stray from the comfortable path of sample reproduction and delve deeper into the heart of the sound. Few details are available on the modelling process, but in many cases the ASM tone is combined with a sample to produce the finished result (see the chart elsewhere in this article for more details). Six of the instruments are totally sample-based (with no ASM): the cowbell, maracas, claves, ride cymbal, rim shot and hand clap. These still work effectively, allowing the real sound generation muscle to be reserved for the more complex voices. The manual explains that ASM sounds, unsurprisingly, require more processing power than sample playback, and consequently polyphony is reduced depending on the number and type of drums sounding. This sounds confusing (and it is) but, in practice, it didn't cause me any problems, since I only have the usual complement

STATION

functions pertaining to the TR808 only are marked in grey text. Perhaps the percussion voices unique to the 808 should have been labelled in grey also? Underneath are the headphone socket and memory write-protect switch.

The DrumStation comes with 25 preset kit memories and a further 15 user memories. This is probably quite sufficient, but if necessary, you can transmit SysEx dumps of single kits or all user kits to an external device. The Select button below the display steps through the various MIDI functions such as transmit and receive channels, utility mode (see separate box for details) and program save or select. Navigation is via the tiny matrix of buttons.

The back panel is generously endowed with stereo outputs and six individual outs. Output routing can be saved as part of a kit, and I found it convenient to think in terms of each output being used for a different effects unit, rather than a different drum (see the Utility mode box for more on this). MIDI In, Thru and Out sockets are of course present, and the DrumStation controls send out all the movements as MIDI controller information, so all tweaks can be recorded into a sequencer, although some parameters (eg. Distortion, Pan and Front Cut) require you to generate the controller information yourself from your sequencer or master keyboard. If you are lucky enough to have a BassStation, Novation thoughtfully provide a conversion table of matched controllers for this purpose. And if that weren't enough, a Roland Sync 24 output (a pre-MIDI communication protocol) allows triggering of old gear such as my battered TR606, providing you route a MIDI Clock to the DrumStation.

DREAM DRUMS? — THE SOUNDS

Sounds may be auditioned via MIDI or the handy auto trigger facility, which repeats a note at a tempo you set — that's the sort of attention to detail that I find most endearing! Many of the drum voices feature ASM — yes, it's that 'M' word again — and this

British company Novation made their name with the BassStation synth, which offered dance music producers instantly tweakable, analogue-style synth sounds in a MIDI-controllable package. The new DrumStation applies the same formula to the de rigueur dance sounds of Roland TR808 and TR909 drum machines.

PAUL NAGLE moves from Station to Station...

of hands and feet anyway! I'm told polyphony is "up to 8 notes", not 12 as stated in the manual, and I guess some form of reserve function would have been nice, even as a global setting.

True to the original Roland sounds, the snare drum has four dedicated parameters: Tune, Level, Tone and Snappy — a setting which increases the amount of white noise in the drum body. Using these, you can squeeze plenty of life out of that old 808 snare, even before resorting to external processing. The bass drum has Tune, Level and Decay. For the 909 kit, there is also Attack, and for the 808, there is Tone. The remaining instruments each have Tune and Level knobs, with the toms, hi-hats and cymbals also featuring a Decay setting. Those instruments which share common controls are selected via a small 3-position switch, making it a little more difficult to set the relative tuning of the toms and congas.

It is difficult to single out any individual voice for praise. All are excellent renditions of their TR808 and 909 ancestors. If, by some chance, you have never heard these machines, remember that (with ▶

pros & cons

NOVATION DRUMSTATION £450

pros

- Faithful representations of two classic drum machines.
- Great MIDI control.
- Sonic tweakability which exceeds even the originals in some cases.

cons

- Expensive.
- Loses the drum machine heart that helped shape the sound in the first place.

summary

The DrumStation achieves a very realistic simulation of the TR808 and 909, and will therefore do well amongst those determined to have greater control over the sounds than mere samples can provide, but who can't afford the absurd price tag on the original instruments. The MIDI control also allows you to stretch the sonic limitations of these two instruments, but maybe the choice of some different sound sources would result in the DrumStation being added to a few more shopping lists.

SOUND ON SOUND

NOVATION DRUMSTATION

► the exception of the 909 cymbal, which was a sample anyway), none of the voices actually sounded realistic. Yes, the toms can sometimes be mistaken for someone hitting a cardboard box with a dead fish, and yes, the famous 808 'snare' does sound rather like a yeti stomping through a pile of cornflakes, but what the hell — these sounds were what gave drum machines such a unique musical identity.

Novation have managed to reproduce a bass drum which has great presence, especially with a little front cut and external EQ. The toms sound superb with a touch of distortion, and the crisp, metallic hi-hats and 'plinky' claves are classics that I will personally never tire of. Both the 808 and 909 snares seem destined to last forever, although thankfully the popularity of the handclap seems to have waned with the passing of disco. Of all the instruments, the only one I could never find a use for was the bloody awful cowbell! If I could vote for an enhancement, it would be to add the sounds of other classic machines such as the Drumulator or TR707 (especially the latter) — but perhaps now that the work has been done to create the modelling technology, it will be possible in the future.

CONCLUSIONS

A drum machine without the rhythm-making section isn't a new idea, but the DrumStation is targeted at a very specific market. So, what's the verdict? Well, anyone with a regular need for these sounds will be more than happy with the DrumStation's version of them. Of course, because

MIDI UTILITY MODE

Some intriguing features set the DrumStation apart from its analogue predecessors, and allow you to carry out some things previously only achievable with patience and extreme cleverness. In Utility mode, you select the drum you wish to edit via the plus or minus keys. A nice time-saving feature is that a quick turn of any knob causes its drum to become the currently selected one — but I'd have liked to have gone one stage further, and been able to select drums for editing by incoming MIDI note (though this could prove problematic for drums that share the same editing controls, like the toms). As it is, you can be auditioning a tom sound from your master keyboard and end up furiously tweaking the DrumStation's front panel controls, wondering why the sound you're playing isn't affected.

Front Cut, which removes up to 99 milliseconds from the start of the drum sound, results in a more muted or rounded character. This is particularly good for removing the 'head' element of a bass drum, enabling you to catch that 'hit in the chest' thud that is so vital in cardiac emergencies and dance music.

Controller/velocity decides whether a particular parameter responds to velocity or other controller data. You can program different elements of each drum so that, for example, the snare's tone and tuning respond to velocity but the 'snappiness' is controlled via MIDI, allowing a great variety of responses. I found I could get great results when triggered from my little Yamaha DD12 drum pads, combined with a continuous pedal mapped to pitch.

The DrumStation can accept or ignore note off

information for each drum. This means you can choose whether drums cut off when hit again before their decay time has ended. If you get problems with polyphony, this might be useful and is set on an individual drum basis, like all the other parameters mentioned here.

General MIDI is, happily, almost entirely absent, but it does rear its bland head in the form of a simple remap facility. If you want to quickly integrate an 808 or 909 kit into a GM song, this is the way. Output Set lets you assign any of the drums to anywhere in the stereo panorama or to any of the six individual outputs. This is a generous number, and is invaluable if you wish to process the sounds of kick and snare separately. A useful feature within the Assign Bank function allows you to map a single drum sound over an octave range on the keyboard, although I didn't find a means of overlapping drums on the same note.

Novation have continued with their high standards as far as MIDI spec goes. Practically every DrumStation parameter has its own associated MIDI controller — 100 in total — with which you can coax out every drop of expression from these simple noises. Purists can ignore this if they wish, but I loved the power to take such basic voices and move them as far as possible from the starting point. Distortion adds 'soft-knee' distortion to the currently selected drum voice, and is particularly good for adding some extra nastiness to snares and kicks. Last amongst the utility functions is a demo which shows off the sonic power of the DrumStation admirably with stereo hi-hat panning, wacky tuning changes and dynamic kick and snare combinations. I freely admit that none of my own efforts matched this.

ANALOGUE SOUND MODELLING/SAMPLE CHART

| | TR808 | TR909 | ASM | Sample |
|---------------|-------|-------|-----|--------|
| Bass Drum | 0 | 0 | 0 | |
| Snare Drum | 0 | 0 | 0 | |
| Rim Shot | 0 | 0 | | 0 |
| Hand Clap | 0 | 0 | | 0 |
| Closed Hi-Hat | 0 | 0 | 0 | 0 |
| Open Hi-Hat | 0 | 0 | 0 | 0 |
| Ride Cymbal | | 0 | | 0 |
| Crash Cymbal | 0 | 0 | 0 | 0 |
| Low Tom | 0 | 0 | 0 | |
| Mid Tom | 0 | 0 | 0 | |
| High Tom | 0 | 0 | 0 | |
| Cowbell | 0 | | | 0 |
| Low Conga | 0 | | 0 | |
| Mid Conga | 0 | | 0 | |
| High Conga | 0 | | 0 | |
| Maracas | 0 | | | 0 |
| Claves | 0 | | | 0 |

Of these, the TR808 hi-hats and crash cymbals are recreated using ASM, and the 909 versions are samples with ASM envelopes and tones.

many instruments already include some 808 and 909 samples, the average punter might consider the DrumStation an expensive luxury — but I've heard many quality 808 and 909 samples, and none allow such a degree of control over subtle nuances of the sounds. On the other hand, although packing these sounds into a convenient rack is very neat and tidy, you do lose the pattern memories and step-time input that was for some as important as the sounds themselves. At the end of the day, you have to keep in mind that if you wanted both of the original drum machines and a sync/MIDI box for the 808 too, you would probably have to pay twice the asking price of the DrumStation.

I suppose Novation must have felt faintly sick when they heard about the forthcoming Roland MC303, but there are significant differences between the two, not least that Roland's box omits all the dedicated knobs that make the DrumStation such a joy to use. And with advance orders for the DrumStation apparently numbering well into the thousands, it would seem that plenty of people are fed up with lining the pockets of those who were cunning (or fortunate) enough to pick up real 808s and 909s for a song when everyone was selling theirs!

SOS

£ £449.99 inc VAT.

A Novation Electronic Music Systems Ltd,
Westacott Business Centre, Maidenhead
Office Park, Westacott Way,
Maidenhead, Berkshire SL6 3RT.

T 01628 828888.

F 01628 825599.

WE'VE DISCOVERED THE MISSING LINK IN THE SEARCH FOR NATURAL-SOUNDING COMPRESSION.

The New AUTOCOM MDX 1200 with Dynamic Enhancement

Compression, particularly when applied heavily, can "dull" the sound of your signal. That's because the lower end of the frequency spectrum dominates the action of any broadband compressor, causing high frequencies to "disappear."

The new AUTOCOM MDX 1200 stereo Compressor/Limiter/Expander/Enhancer has been designed to solve this problem. Our exclusive new dynamic enhancer circuitry restores the *perceived* loss of higher frequencies that occurs during compression, ensuring your mix always retains its original brightness and energy.

Exceptionally versatile by design, the new AUTOCOM now also features a unique IRC*-Downward Expander/Gate which reacts intuitively to the program material to produce an extraordinary natural sound.

Built-in Auto *and* Manual Compression modes give you more options—from "set and forget" to a wide range of fully adjustable Attack and Release times for creative effects. Our unique Wave Adaptive compression circuitry delivers "inaudible" compression every time you use it.

The new AUTOCOM MDX 1200 from Behringer – the dynamic new way to put life back into your music.



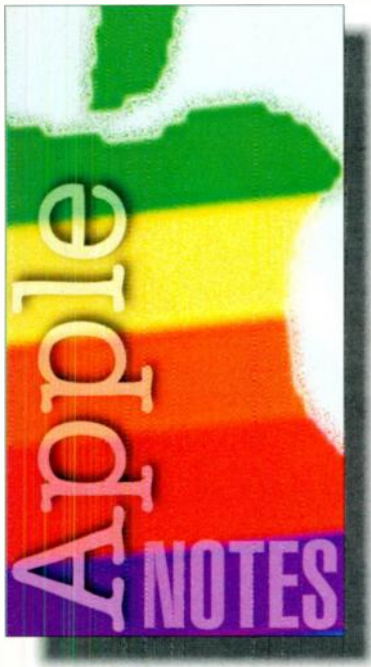
Welcome to the Interactive World of
BEHRINGER
Get the new catalog 1996

UK Retail Price £199.00

Your Ear Is Our Judge

*(Interactive Ratio Control)

For more information about the new AUTOCOM MDX 1200 and the Interactive World of Behringer, please ask your local dealer or contact:
BEHRINGER U.K., St. Vincent House, 59 Woodbridge Road, Guildford, Surrey GU1 4RF. Tel: +44 (0)1483 458877. Fax: +44 (0)1483 458877.
BEHRINGER Specialized Studioequipment GmbH, Otto-Brenner-Str.4, D-47877 Willich. Tel: +49 (0)2154-92060. Fax: +49 (0)2154-428523.



MARTIN RUSS surveys his dying Mac IIsi and ponders the purchase of a new model. Will he go for leading-edge Power or a last-generation bargain?

It's been quite an eventful month here at Apple Notes. There's an annoying (no, alarming!) hardware fault in my once-trusty Mac IIsi: my boot drive has developed an alarming tendency to mess about with preference files, I seem to have RAM that sn't, and one of my SCSI plugs keeps popping off its socket. All this makes my Mac rather unstable — prone to suddenly stopping in the middle of everyday operations such as drawing a menu, or closing a dialogue box. It's all been rather distressing.

In fact the situation has become so bad that I'm considering retiring my loyal friend and moving closer to the leading edge of Mac computing. The IIsi is worth surprisingly little these days, and getting it repaired seems like a bit of a waste of money. Times have changed

considerably since the IIsi and I first met, and so, following the often-quoted 'change your computer every three years' rule, I've been looking around at the possibilities.

There are two schools of thought: one says that you should go for leading-edge technology because you will need it in three years time (!), and the other says that technology is less of a risk, and probably cheaper. Balancing on the advancing wave of technology is OK if you have the money, but not everyone does. With this in mind, the pragmatic solution seems to be to look closely at what has gone before and what is happening now, and work from that.

The most obvious major change over the last few years is the demise of the Macs based on 680n0-based processors. The Mac II series turned into the Quadras, then the Centrises, LCs and Performas — with the range gradually becoming 68040-only when the Quadra 630 came out. More recently, the rise of the Power Macs has seen the gradual demise of NuBus and the adoption of PCI, even by the Power Computing clones. With the third generation of Power Macs now coming on-stream, the Mac



Power Computing's Mac clones (like the P120 pictured here) make worthy alternatives to bona fide Apple Macs — but be sure to check the clones' expansion slots if you're contemplating using your machine with a Digidesign system, as the newer models appear to be swapping from NuBus to PCI slots...

range of computers is now wholly Power Mac, with the exception of some PowerBooks. The increase in computing power has seen a corresponding rise in number of features and complexity of applications, with a resulting increase in their size and the amount of RAM they require. *MIDI Manager* appears to have been declared officially obsolete by Apple, at least according to some reports.

So one approach to upgrading would be to go for a brand-new Power Mac, choosing one with the right mix of features and price, and allowing just a little bit of room to cope with the evolutions of the next three years. On the other hand, the last generation of 68040-based Macs are now very low-cost, and they should have few problems with running those favourite old programs that you've been using for years. The Quadra 650 is a good example of one of the last set of 68040 Macs that has the option of an upgrade to Power Mac in the future by replacing the main board (if you can still find an upgrade when you decide to move on, of course). PowerBooks can be very effective replacements for the Mac Classics, SEs and SE/30s when you need to take a computer on the road. Performance musician Nick Rothwell uses a PowerBook in his live setup (see the 'Music and Movement' feature in the

APPLE NEWS IN BRIEF

• SPEED FREAK

You may have seen adverts for Intel Pentium processors with clock speeds of 166MHz or more, and wondered how the PowerPC is responding. Well, although you can get 150MHz PowerPC chips as I write, the first deliveries of 166 and even 180MHz chips should be arriving as you read this. By the late autumn, 200MHz may even be available. And don't forget that a 166MHz PowerPC 604e chip is more than equivalent to a Pentium with the same clock speed.

• SYSTEM 8.0: COPLAND

The long awaited Copland operating system, which

has long promised such goodies as multitasking, a customisable desktop (even more than now!?) and an improved set of file management utilities, may now be even longer in arriving. It now begins to look as if it will happen slowly, as incremental improvements to the existing System 7.5.

• BMW?

Although many people have been saying that Apple will be changing from making a broad range of Macs and concentrating on just high-end BMW-style computers, the latest word is that Apple will continue to produce low-end affordable Macs, which has to be good news for Mac musicians who aren't at the hard disk recording/DSP/film/TV end of the market.

Hi-Tech's No.1 ANDERTONS SuperStore

ANDERTONS
Services



UP TO 18 MONTHS 0% FINANCE BY PHONE

You phone our 0% Hotline on 01483 38212 and we'll fill in a quick and easy finance form with you. We send the forms for you to sign, then you send them back with the deposit. We despatch the goods to you and you get months to pay back the balance.
NO INTEREST CHARGES • MONTHS TO PAY



Hard Disk Recording

Fostex DMT-8

Interest Free credit
Deposit £299
12 monthly payments of £100
Total Price £1499 *Subject to status*

New features available include:
virtual tracks. Ability to insert larger Hard disk.
Improved copy and pasting.

New Fostex D 80

Rackmount version of DMT-8
without mixer section. features include:
removeable Hard disc capbits.
Front panel removeable as remote. Change together
multiple units to give you 24 tracks.

NEW Roland VS880

Interest Free Credit
Dep = £399
10 Monthly payments of £110
Total Price £1499

New Novation Drum station

TR808 + 909 drum sounds
stereo left/right + 6 outputs
50 drum kits programs
distortion effect - variable for
each drum sound.

RRP = 449.00
IFC deal = deposit 49
10 monthly payments = £40 per month
subject to status.

NEW Emu Orbit

just in from Emu their new dance module.
*600 sounds *16 point multitimbral
*6 outputs *editable drum loops

Roland MC303



Call
for
details

Package Deals

Soundcraft
16/8/16
and
Fostex D80
inc looms +
extension cable
£2699



Behringer MX8000
and Fostex D80
inc looms and
extension cable
£3099



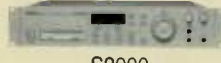
Akai S3000XL

IFC Price = £1799
deposit = £197
18 months @ £89



Akai S2000

expanded to 10 meg
including zip drive
+100 meg of sounds
IFC Price = £1399
deposit = £157
18 months @ £69



S2000
only £999
deposit = £99
18 months @ £50

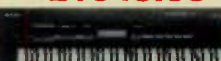
Waldorf Pulse

IFC Price = £599
deposit = £99
10 months @ £50



Alesis Quadrasynt Piano Plus

IFC Price = £1049.00
deposit = £199.00
10 months @ £85.00



EMU ESI 32

with Scsi
IFC Price = £1299
deposit = £147
18 months @ £64



Korg O5RW

IFC Price = £449
deposit = £49
10 months @ £40



Roland XP80

IFC Price = £1799
deposit = £197
18 months @ £89



Digitech Studio Quad

IFC Price = £499
deposit = £55, 12 months @ £37



| | Deposit | Payments | Total |
|----------------------------|---------|----------|-------|
| Alesis Quadrasynt + | £199 | 10x£85 | £1049 |
| Fatah Studio 900 | £79 | 12x£45 | £699 |
| Korg X5 DR | £99 | 10x£50 | £599 |
| Korg X5 | £99 | 12x£54 | £747 |
| Korg X5D | £99 | 10x£50 | £899 |
| Korg 13 Prophecy | £99 | 10x£90 | £999 |
| Novation Bass Station Rack | £49 | 10x£35 | £399 |

| | Deposit | Payments | Total |
|-----------------|---------|----------|-------|
| Roland JV10 80 | £199 | 12x£75 | £1099 |
| Roland XP50 | £199 | 18x£72 | £1499 |
| Roland MGS64 | £99 | 10x£50 | £599 |
| Tascam 488 MK11 | £199 | 10x£90 | £1099 |
| Yamaha MT8X | £199 | 10x£80 | £999 |
| Yamaha W5 | £157 | 18x£69 | £1399 |
| Yamaha W7 | £120 | 18x£60 | £1200 |

| | Deposit | Payments | Total |
|----------------|---------|----------|-------|
| Yamaha SY85 | £99 | 18x£50 | £999 |
| Yamaha PFP-150 | £189 | 18x£95 | £1899 |
| Yamaha MU50 | £49 | 10x£35 | £399 |
| Yamaha MU80 | £79 | 10x£55 | £629 |
| Yamaha QS300 | £199 | 18x£50 | £1099 |
| Yamaha CSX-1 | £99 | 10x£50 | £599 |
| Yamaha QY700 | £199 | *0x£80 | £999 |

PRICE
MATCH

EXPERT
STAFF

GUITAR
REPAIR
SHOP

AFTER
SALES
SERVICE

0%
FINANCE

10 DAY
EXCHANGE PLAN

PART
EXCHANGE
WELCOME

USED
GEAR
WANTED

6
MONTHS

MAIL
ORDER

EXPRESS
DELIVERY

Cubase Audio XT and Digidesign Audiomedia III/PCI

Cubase Audio XT offers a powerful combination of sequencing
and audio support for audiomedia III card
Total Price £1395
Interest Free Credit = Deposit £195
12 Months @ £100

Other Package Deals

| | |
|------------------------------|------|
| Cubase V3.0 + Tahiti Card | £565 |
| Calkwalk Audio + Tahiti Card | £519 |
| Cubase V3.0 PC | £329 |
| Cubase Score V3.0 | £499 |
| Calkwalk Pro | £179 |
| Calkwalk Pro Audio | £269 |
| Passport Pro 6 | £129 |

Interfaces

| | |
|---------------------------|------|
| Midiman Winman 1 in/1 out | £49 |
| V22 2 in / 2 out | £99 |
| Midi edge 2 in / 4 out | £129 |
| Midiman 4x4 4 in / 4 out | £199 |

Digidesign Sample Cell II PC

Special Offer Only £399

New Hard Disk Recording Product.

PCI Card For Mac or PC

New from digidesign is a PCI card with
CD quality 16-bit, 44.1K or 48K recording.
The card can record 4 tracks of audio
and playback 8 tracks. With the PCI card
comes Session software for PC Only.

The software offers:

- non-destructive editing.
- 8 Bands of real time EQ.
- Fully automated mixing (Volume + Pan).
- Track Bouncing.
- Customizable crosspads.
- Synchronisation to sequencers.
- Plus much More!

NOW IN STOCK. £879

Second Hand

| | |
|---------------------------|-------|
| Boss DS 330 | £199 |
| Digidesign Audiomedia III | £349 |
| Tascam 38 | £699 |
| Roland JD800 | £1199 |
| Roland D20 | £399 |
| Roland AX-1 | £249 |
| Roland D50 | £399 |
| Roland Octopad | £199 |
| Yamaha SY55 | £449 |
| Yamaha FP01 | £69 |
| Yamaha DX7S | £299 |
| Yamaha R100 | £99 |
| Yamaha EMP 100 | £149 |
| Yamaha QX5 FD | £199 |
| Yamaha RX5 | £169 |

SERVING
THE MUSICIAN
SINCE
1964

YAMAHA DB50XG
IN STOCK CALL NOW

ANDERTONS
58 & 59 WOODBRIDGE ROAD
GUILDFORD · SURREY GU1 4RF



01483
38212



01483
38211



► November 1995 issue of *SOS*, and Apple Notes in the December 1995 issue).

So what do I go for? Is it a Power Mac, a 68040 old-timer, or a portable PowerBook? Tune in to this channel, same time next month, to find out...

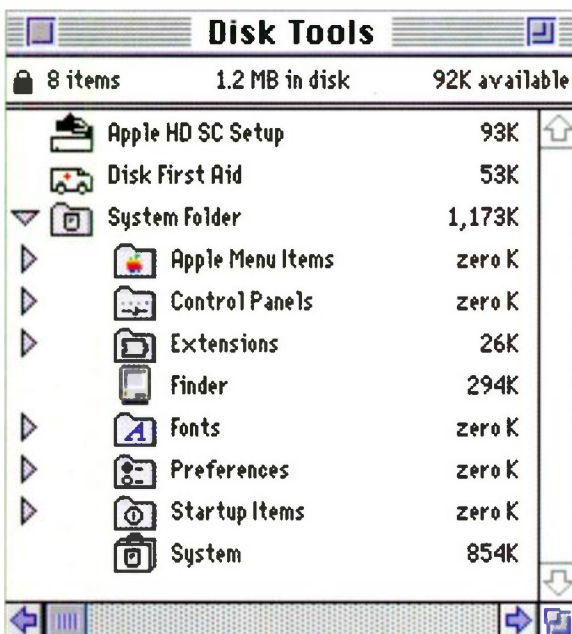
TIP OF THE MONTH: EMERGENCY RECOVERY

Speaking of hardware faults, what happens if the hard disk that you boot up from suddenly dies? It does happen, and from my conversations with Mac users, many people

don't seem prepared for this sort of emergency. What's needed is an emergency disk from which to boot so that remedial action and repairs can be undertaken. If you don't have one already, you need one!

One of the emergency boot disks I use came with the original System 7.1 floppies. The Disk Tools disk has a System Folder containing a very minimalistic set of system files, plus *Disk First Aid* and the *HD Setup* applications. The first port of call for a Mac crash recovery is probably the *Disk First Aid* utility. After that, professional help may be needed if all is not well.

But what about more recent systems? Making your own emergency disk ought to be straightforward, but for some reason it isn't as easy as it could be. If you use the System 7.5 installer program to custom install a minimal system onto a floppy, you may be told that there isn't enough room on the floppy. The solution is to install the minimal system onto a spare hard disk (I use a SyQuest removable) and then prune things by hand. Remove all the beeps and so on from inside the System, then put just the Finder and the System onto a floppy. You may also need empty folders for the Apple Menu Items, Fonts, Control Panels, and so on. I managed to get the system down to 854Kb, and this allows a 294Kb Finder and the 53Kb *Disk First*



My 'F Plan' Emergency disk — about as slim and trim as it gets these days, at 854Kb!

ON THE NET

There are other parts to the Internet beyond the World Wide Web. Two of the most interesting areas are Newsgroups and Mailing Lists.

Newsgroups are a bit like a global free newspaper, except that the reporters are ordinary (sometimes) people — so anyone can post a story. As a result, there are some weird and wonderful 'news' topics (the definition of what is 'news' is often stretched to breaking point!). To read newsgroups, you need a news reader utility program, but often WWW browsers include one. The news topics are sorted into groups by a series of categories. Here are some example newsgroups on the subject of music:

- alt.fan.jimi-hendrix
- alt.music.orb
- rec.audio.pro
- rec.music.makers.synth
- uk.music.misc

Mailing lists are a more targeted version of newsgroups, but based on email. Rather than being available for anyone to read and contribute to, mailing lists are 'subscribed' to. Once subscribed, you then receive email which is also posted to everyone on the mailing list, and anything that you post to the list is automatically sent to everyone else. Musical topics include lists covering electronic music, synthesizers, automated composition, and even programming languages like *Max*.

Aid to fit onto one HD floppy. (If you've only got 800K drives, you need to upgrade, because almost everything comes on HD disks these days.)

And let's hope you never need to use the emergency recovery disk!

SOS

HOW IT WORKS — COMMUNICATIONS

This month I'm taking a closer look at the kind of programs you'll need for electronic communications using your Mac.

• TERMINAL EMULATORS

Just about the simplest way to communicate over a telephone (apart from talking, of course!) is directly from one computer to another. In its basic form, this involves making a connection from your computer to another computer, and then making your computer compatible with the other end — emulating the sort of terminal device the other computer expects. This explains the name 'terminal emulator' for the application program that accomplishes this task so that your computer can communicate with the remote computer. In most cases, the remote computer sends text to you, and you send text back. A terminal emulator is often included in the set of utility software that comes with modems, and these programs often have catchy names ending in 'Term'.

• BULLETIN BOARDS

One use for this inter-computer communication is to

allow people to leave messages on the remote computer, which other people can then look at. Rather like a bulletin board — so that's what it's called. Bulletin board computers live at the other end of telephone lines, and can be used to provide all sorts of messaging and storage functions. Many bulletin boards have become entwined in the Internet.

• EMAIL

Long before the Internet became hugely hype-worthy, people with computers and modems were sending each other messages using electronic mail — email. No stamps, no envelopes, and no need for blotting paper. Instead, all you need is someone to act as a sorting office — which is where bulletin boards come in. Why put messages on a bulletin board and expect people to come to that board when you could move the message to a bulletin board that they already use? From this simple idea, email has evolved to allow the transfer of electronic messages from any computer to almost any other computer. It's a little like the biggest MIDI network you can imagine, only bigger. One of the

most popular Mac email programs is called *Eudora*, for reasons which escape me at this moment.

• FTP

Bulletin boards can be used to store more than just messages. One way of transferring data between computers is called File Transfer Protocol, or FTP for short. This can be used to transfer applications, picture files or MIDI files — the contents of the file don't matter. FTP programs are often called by obvious names like *FTP*, although one of the popular Mac versions is called *Fetch*.

• WWW

The World Wide Web is another name for a set of specialised computers which are spread all over the world, and connected by the Internet network. To communicate with these computers, you need a WWW browser. This allows you to wander around all the WWW computers, which are called servers because they act as intermediaries between your WWW browser and their information. The information on the WWW is in the form of pages, rather like a very large magazine. A recent count estimated that there were over 30 million pages on the WWW.



VLZ MICROSERIES: SMALL MIXERS WITH WHAT IT TAKES TO HANDLE SERIOUS PROJECTS.

MICRO SERIES 1202 VLZ 4 MONO CHS. 4 STEREO CHS.

MICRO SERIES 1402 VLZ 6 MONO CHS. 4 STEREO CHS.

BOTH MIXERS ARE QUITE AFFORDABLE AND ARE NOW IN STOCK AT YOUR LOCAL MACKIE DEALER. CHECK THEM OUT TODAY!

BOTH MODELS HAVE:

Studio-grade mic preamps with discrete circuitry for high headroom low noise (-129.5 dBm E.I.N.) and wide frequency response (over 300kHz!).

Low Cut filters (18dB/oct. @75Hz) on mono mic/line channels allow use of low-frequency EQ on vocals without boosting room rumble, mic thumps, P-pops and wind noise.

Trim Controls on mono channels have 60dB total gain range for boosting weak sound sources and a 10dB "virtual pad" for taming hot digital multitrack outputs.

2 Aux Sends per channel (one globally switchable pre/post, one post-fader), each with 15dB of gain above Unity to boost weak effects.

3-band equalization with 12kHz High shelving EQ, broadband musical 2.5kHz peaking Midrange & 80Hz Low shelving EQ.

Constant loudness pan controls.

Stereo in-place Solo.

Mute button routes signal to "bonus" Alt 3-4 stereo bus outputs & Control Room matrix. Handy for both recording and live applications.

MS1402-VLZ ONLY: 60mm logarithmic-taper faders based on our exclusive 8-Bus design. Long-wearing wiper material and tight polymer lip seals to protect against dust & other crud.

Built-in power supplies — no outlet-eating wall warts or hum-inducing line lumps.

Phantom power so you can use high quality condenser microphones.

XLR outputs with mic-line level switch (along with 1/4" TRS outputs on top panel).

MS1202-VLZ • 12x2 • 4 MIC PREAMPS

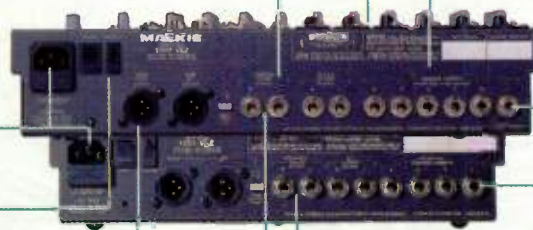


MS1402-VLZ • 14x2 • 6 MIC PREAMPS



All inputs & outputs are balanced¹ to cut hum & allow extra-long cable runs, but can also be used with unbalanced electronics. ¹except RCA tape jacks, headphone jack & inserts.

VLZ (Very Low Impedance) circuitry first developed for our 8-Bus console series dramatically reduces thermal noise & crosstalk in critical areas.



Control Room outputs feed monitor speakers without tying up the headphone jack.

BOTH MODELS HAVE:

Radio Frequency Interference protection via metal jacks & washers plus internal shunting capacitors.

High-output headphone amp can drive virtually any set of phones to levels even a drummer can appreciate.

Aux 1 Master level control & pre/post switch.

Effects Return to Monitor switch folds Aux Return 1 effects into a stage monitor mix via Aux Return 2 level control.

RCA-type tape inputs & outputs. Peak-reading LED meters with Level Set LED combined with In-Place Solo allows fast, accurate setting of channel operating levels for maximum headroom and lowest noise floor.

Control Room/Phones Matrix adds monitoring, mixdown & metering flexibility. Select any combination of Main Mix, Tape In and Alt 3-4 signals for routing to phones, Control Room outputs and meters. Can be used as extra monitor or headphone mix, tape monitor, or separate submix. Way cool.

Tape Assign To Main Mix assigns unbalanced RCA tape inputs to main mix. Besides its obvious use as a tape monitor, it can also add an extra stereo tape or CD feed into a mix or play music during a break.

MS1402-VLZ only: Global Solo Mode selects PFL or AFL solo modes.

Solid steel chassis & thick fiberglass internal circuit boards resist abuse.

Channel inserts on mono channels.

Not every production project requires dozens of input channels and boatloads of buses.

But doing ANY audio job well requires a mixer with superb specs...and the right combination of useful features.

Our MicroSeries 1202-VLZ and 1402-VLZ might have small footprints, but when it comes to performance, they walk very tall.

Since both are basically chips off our blockbuster 8-Bus Series consoles, they have big-board specs:

greater than 90dBu signal to noise ratio, less than 0.005% distortion, more dynamic range than compact discs and frequency response that's only down 1dB at 60,000 Hz.

Why own an imitation when you can own the brand of compact mixer that serious pros prefer. Call for info today.

Software sequencers are in a state of transition. When audio was introduced to MIDI sequencers, it was seen as a premium addition for top-of-the-range packages. Recently, however, audio has started to establish itself as standard even on lower-cost software. Opcode's *Vision*, formerly a MIDI-only sequencer, now features audio, though in a more basic form than the company's own flagship, *Studio Vision Pro*. And with the launch of Steinberg's *VST* (Virtual Studio Technology) for Power Macs, audio now figures even in the standard Power Mac version of *Cubase* and *Cubase Score*, as well as in *Cubase Audio*. Anyone buying *Cubase* for the Power Mac now buys *VST*, an audio and MIDI sequencer which exploits this machine's 16-bit audio capabilities, though for

those who don't want audio or don't have a Power Mac, there's a non-VST disk set too.

So does *VST* simply bring audio recording to the parts of the *Cubase* range which didn't previously have it? As welcome as that would be, given that the price has remained the same, *VST* actually adds more. In short, it takes the sophisticated MIDI sequencing of *Cubase*, plus most of the audio recording and editing facilities of *Cubase Audio XT* (excepting Digidesign TDM support), and adds comprehensive parametric EQ and four virtual effects processors — reverb, chorus, autopanner, and stereo delay. You can now sequence MIDI parts to your heart's content, manipulate them with powerful editing facilities, then add a number of channels of audio material, which can be EQ'd, effected, and mixed — all within your Power Mac, with no need for an audio recording card, or external effects or EQ. The final track is then output from the Mac's stereo output for mastering. The only external gear you'll need

Welcome to Virtua

STEINBERG CUBASE VST AUDIO SEQUENCER FOR APPLE POWER MAC



is MIDI instruments, a mixer (more later on this), an amp and speakers, and/or headphones.

Surely there's a catch? Well, Power Macs' audio connections are on stereo mini-jack sockets, not the most robust or high-quality of audio connectors. Its stereo input means that you'll only ever be able to record two audio channels at once, and the stereo output means that your finished work will have to be mixed inside the computer. You also have to rely on the Power Mac AD/DA converters, which won't be audiophile quality. In a pro studio, these would be real limitations, and you'd want to spend the money on additional hardware to ensure the highest audio quality.

However, not all of us have pro studios. Thousands of musicians have modest 'project' setups, where they produce demos and even budget releases. These are the kind of people who'll be interested in Virtual Studio Technology.

lity

HARDWARE & INSTALLATION

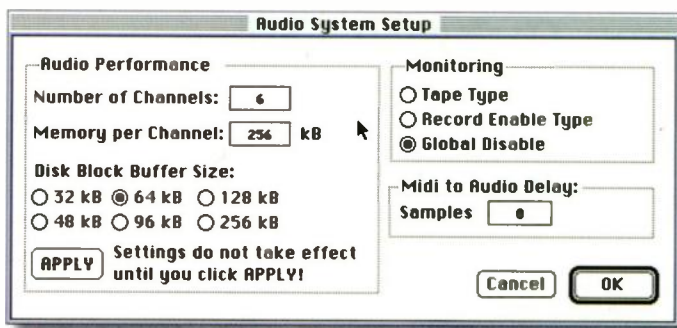
The first requirement is a Power Mac, running System 7.5 or higher (but not 7.5.3 at the present time). Steinberg recommend the 90MHz 7200, and the minimum machine they say you should use is the 6100. The speed of your computer is one of the factors that governs how many audio channels you'll be able to play back, and how many simultaneous EQs and effects you can use. Other factors are hard disk speed and installed RAM. The minimum free RAM for VST to run is 7Mb (it won't even stoop to installing with less than 16Mb total RAM!), but the more RAM, the more audio channels you can have. You need a 256Kb 2nd level cache memory, which should cost around £120-150, and some kind of data backup method will be required.

Installation is easy, using Master Disk Authorisation copy protection, and the next step is deciding how many audio channels to assign to your system. This figure is quite fluid, depending



The Audio Performance window monitors the load on your CPU and hard disk.

on your hardware and memory, but Cubase helps you set a realistic number. Enter a number of channels in the Audio System Setup (pictured above right) dialogue and set an amount of memory per channel from a preset list — the more the better, as far as audio performance is concerned. You also have to set a disk block buffer size, which governs the buffer size used when



reading and writing data from/to the hard disk; the two figures are intimately related. If you set too many channels for the RAM available, VST alerts you. Then you have to juggle channels and memory allocations.

According to the manual, a Power Mac 7200/90MHz machine with enough free RAM for

The System Setup dialogue: this helps you set a realistic number of audio channels for your system.

This year's show-stealer at Frankfurt's Musik Messe, Steinberg's Cubase VST isn't just another 'MIDI plus Audio' sequencer — it adds the effects and processing options hitherto only available in expensive TDM systems, for the same price as the previous, non-audio version of Cubase. Is this the perfect desktop recording environment? DEREK JOHNSON & DEBBIE POYSER find out.

the recommended memory assignment (around 12Mb), working with its internal drive, should be able to handle 16 audio channels and 32 activated EQs. With a 9500/133 and a large, fast hard drive, you might get as many as 32 channels and 64 EQs. On our 75MHz 7200, with 16Mb of RAM, we were able to run six channels of audio with two EQs each and all four effects processors. We didn't even assign the recommended amount of RAM, giving VST 10Mb instead of 12Mb.

An 'Audio Performance' window (shown left) with CPU and disk load meters can be left onscreen at all times, and if you're overdoing it for your system, red Over indicators light up. However, by then you may already have heard the distortion which means you need to pull something back — turn off an EQ, for example.

GETTING STARTED

First, plug a sound source into the Mac's input. Many musicians already have a multitrack mixer, and will feed sound sources into the Mac via that — which is advisable, because the Mac's input is set up for mic-level signals and is quite fussy about incoming levels. You'll probably have to make a ▶

pros & cons

**STEINBERG
CUBASE VST £329**

pros

- Audio now standard across Cubase range.
- Quite comprehensive waveform editing.
- Effects and EQ highly usable, with all changes occurring in real time.
- Uses Power Mac hardware, so no need for any extra audio cards.
- Surprisingly good sound quality.

cons

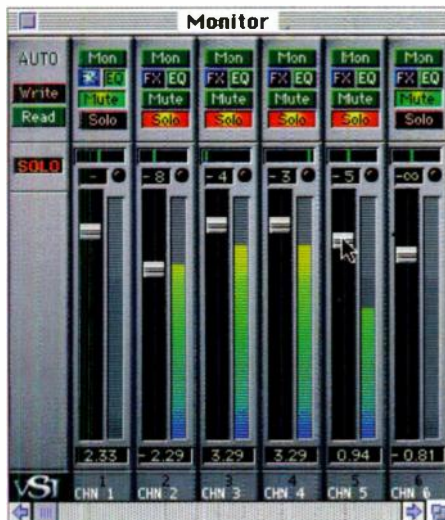
- Unhelpful manuals.
- Audio side sometimes feels a little 'bolted on'.
- Accurately changing parameters in effects windows is difficult.
- Care required when dealing with input and playback levels (though this is more a fault of the Power Mac than Cubase VST).
- If you want more than a few audio channels, be prepared to invest in lots of RAM.

summary

This is a real plug in and play system. Almost as fast and easy to use as a cassette multitracker, but far more sophisticated — and with the benefit of digital sound and no loss of quality due to bouncing. You need an up-to-date Power Mac to run it, but even without the effects and EQ, VST would have been good value for its low-cost audio and MIDI integration; with these facilities, it's unmissable.

SOUND ON SOUND

Steinberg Cubase VST



The Monitor Mixer for six audio channels. It has all the usual mute, solo and pan facilities, plus EQ and FX buttons for accessing and switching off EQ and effects for each channel. The little pan sliders above the faders can be automatically centred by Command-clicking on them, and faders can be set to 0dB by the same method.



The Master Fader window can be set to monitor the level of incoming signals, by selecting 'Input Meter'.

▶ special lead to connect your mixer to your Mac; we noticed that our Power Mac's socket recesses are slightly too small for the average mini-jack to fit perfectly. The plug appeared to fit, but produced unusual levels of noise because of incomplete electrical contact. We were dismayed at this noise until we diagnosed the problem. You may have to obtain mini-jacks with extra-skinny barrels, or carefully shave a little off the ones you have. Even with a correctly-fitting connector, there is some hiss from the Mac output, but at normal volume, it isn't even as bad as the average synth or effects processor.

Recording is initiated from the Arrange window. The Track Class menu allows you to select an Audio track; opening the Track Inspector box then reveals Monitor and Record Enable buttons. Record Enable readies a track for recording, and you then select an audio channel to record with. The Mac assigns signals from the left input to odd-numbered channels and those from the right input to even-numbered channels. Stereo or other two-channel tracks can be recorded: set their channels to 'Any' in the Inspector.

Record Enabling also enables monitoring for the selected channel. VST offers three monitoring types: Tape Type and Record Enable use the Mac's hardware for monitoring, but its design creates a buffering delay between the input signal and the same signal being monitored by VST's mixer. If you're recording 'live' audio, like someone singing, this can be enough to throw their timing, and in this case, it would be better to select the 'Global Disable' option. This turns off Mac monitoring and lets you use your own mixer for monitoring instead.

To help you set the correct input level, VST has a nice-looking Monitor Mixer (shown above left) with a Master Fader window (shown left)

whose meters can show signal input level. This should not exceed 0dB: avoid going into the red and lighting the clipping LEDs. If levels are too high, your instinctive reaction will be to pull down the on-screen faders. However, this won't help, since you cannot set input levels within VST: you have to do it at source.

The Monitor Mixer is also used for final mixdown. It can be automated via a separate 'mix' track, which records all mixer movements, including mutes, solos, and EQ and effects changes. Complicated mixes can be assembled a track at a time, and you can even edit individual mix events using List Edit.

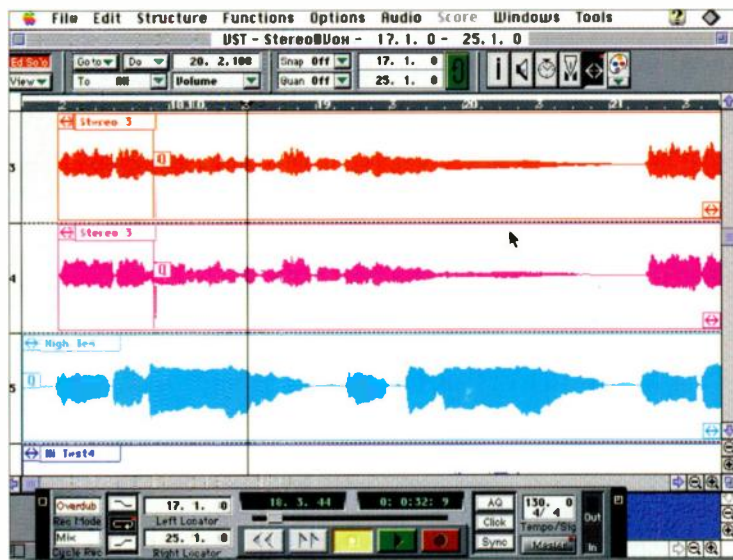
RECORDING AUDIO

When you enable recording for a new Song, VST asks where to store the audio Files. You can't create a new folder at this point, so make a habit of creating one for each project before starting to record.

With input level set, recording can commence. A selectable Pre-record parameter starts recording early to catch the attack of sounds starting before a bar-line, and if you fluff part of an otherwise good recording, Punch-in (programmable or manual) is easy to set up and produces flawless results. During recording, VST acts very much like tape, and the usual transport controls navigate around an audio track, but it also has some great extra features. Cycle Audio, for example, allows you to set up a loop of part of your song and record multiple consecutive takes of the same part. In the Audio Editor, the takes are ready-stacked, and you can play them back individually to find the best parts of each, for assembling a composite take. This is great when recording vocals or guitar solos. When you've identified the best bits, you can delete the rest, leaving portions of audio scattered across various takes. Selecting 'View by Output' then shows them all together, looking like a single take.

VST lets you record as many audio tracks as you want (disk space permitting), one or two at a time. What you can't do is *play back* as many as you like at the same time. The important restriction is audio channels. Tracks are played back by channels, and if you only have eight audio channels in your system, that's all you'll be able to play back at one time. You could play back more, however, by using the channel space cleverly. For example, if one track on channel 2 contains a vocal which occurs during choruses, use the space in between for another track containing a guitar part which occurs during verses. The guitar track would also be set to channel 2, and the result would be two tracks playing back on one channel. If the audio on those tracks overlapped, however, only one track would sound, as they would be fighting for the same channel.

Another way of stretching available channels is Audio Mixdown — like 'bouncing down' with multitrack tape. It re-records the contents of multiple tracks playing on several audio channels onto another track playing on one channel, freeing up the original channels. With VST, you don't even have to keep a spare channel to bounce ▶



The Audio Editor, showing three channels of audio (see page 94).

EMIS

The place for keyboards

EMU

Orbit • Ultra Proteus
E4 Keyboard • ES132 SCSI
E64 • E4 • Darwin



QUASIMIDI

Raven • Cyber 6
Quasar • Technox



NOVATION

Bass Station • Bass Station Rack • Drum Station



FATAR

Studio 49 • Studio 610
Studio 900
Studio 1176
Studio 1100



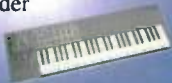
KORG

Prophecy • Trinity Plus
i5S • X3 • X5D
X5DR • 05R/W • ih
C505 Digital Piano



CLAVIA

Nord Lead now version 2
Nord Lead V2 • Nord Rack V2
Nord Expander
8 Voice
expansion



KENTON

MIDI to CV converters
Pro Solo Pro-2 Pro-4

SPL

The Vitalizer
effects processor
only £349

Ex Demo Clearance (Cash Prices)

Alesis Quadrasynt Plus Rack.....£649
Alesis Monitor Two.....£539
E-mu Darwin.....£2375
Korg Trinity Plus.....£2299
MOTU 7S MIDI controlled Mixer...£299
Quasimidi Cyber 6.....£849
Yamaha Pro Mix 01.....£1499
Yamaha VL1 Version 2.....£1999
Yamaha MT8X.....£799

WALDORF

Pulse analogue expander



Mackie

Full range of
Mackie Desks



Computer Software

Emagic • Steinberg • Twelve Tone
PG Music • Passport • Hohner



YAMAHA

W7 • CS1x • QS300 • SY85 • PF85 • PF-P100 • PF-P150
SU10 • TG100 • MU50 • MU80 • QY22 • RY8 • RY20 • DB50XG
MT50 • MT4X • MT8X • MDF2 • REV100 • NS10 • GC2020
ProMix-01 • P1500, P2500 & P3500 power amps
Mixers, Microphones & Headphones
Full Range of PSR Keyboards



GENERAL MUSIC

We have bought the last shipment ever of the amazing S2 and S3
S2 Turbo £1299 & S3 Turbo £1399
including FREE access to the enormous EMIS Software sample library
WX2 plus • CD20 • CD30 Keyboards • RP1 & RP2 Digital Pianos
Home organs, Mixers, LPS & MP Speakers



Used Instruments

| | | | |
|---------------------------|-------|--|------|
| Oberheim Matrix 12..... | £2999 | Korg EX800..... | £125 |
| Wurlitzer EP200a..... | £199 | Korg DS8..... | £299 |
| Casio FZ1..... | £599 | Jen SX2000..... | £75 |
| Ensoniq ESQ1..... | £349 | Roland SH1000..... | £149 |
| Yamaha DX7..... | £299 | Roland SH2000..... | £125 |
| Ensoniq VFX SD..... | £599 | Korg Poly 800..... | £149 |
| Yamaha DX711D..... | £349 | Roland RS202 String Machine..... | £149 |
| Yamaha DX711s..... | £325 | Yamaha TX1P Piano..... | £149 |
| Yamaha DX27..... | £125 | Yamaha EMT10..... | £99 |
| Roland Juno 6..... | £199 | Yamaha FB01..... | £85 |
| Logan String Machine..... | £125 | Roland Sound Canvas SC55..... | £275 |
| Casio CZ1000..... | £149 | Dream GMX-1 General MIDI module..... | £99 |
| Korg Poly 800 MKII..... | £199 | Kawai Q80 (32 track sequencer/disk)..... | £299 |
| Korg T3..... | £799 | Yamaha QX5 (8 Track sequencer)..... | £149 |
| Casio HT3000..... | £125 | Casio SZ114 (4 Track sequencer)..... | £85 |
| Kawai K11..... | £499 | The Kat DK10 Controller..... | £299 |
| Casio VZ1..... | £325 | Sequential Drumtraks..... | £199 |
| Yamaha DS55..... | £249 | Emu Drumulator (MIDI)..... | £149 |
| Korg Micropreset..... | £75 | Roland TR626..... | £125 |
| Siel Expander 80..... | £149 | Alesis HR16..... | £125 |
| | | Fostex X15..... | £99 |

ALL OUR PRICES
INCLUDE VAT

*Buy now
Pay Later*

10% deposit, balance payable
in 6 months time at no extra cost

956 7855
The Old School House, Cossham Street, Mangotsfield, Bristol, BS17 3EN
Open 9am to 5:30pm Monday to Saturday. Closed Wednesday, Other times by appointment

Steinberg Cubase VST

MANUAL MADNESS

Cubase Score VST comes with four manuals, and we think it's time for a rewrite. For a start, there's only one index for all four — if you're working with the audio manual, you have to hunt out the 'Getting Into The Details' manual just to use the index. The audio manual also constantly sends you to the MIDI manuals for full explanations of procedures which are common to the MIDI side. On occasion, it doesn't even say which manual to look in, referring to "the main manual". Certain information isn't in the manuals: some important stuff is covered in the 'electronic' references — read-me files that come with the software. And if you find yourself searching for a list of keyboard shortcuts, save yourself the effort: that's in one of the electronic references too. The audio manual also skips around annoyingly, with information about a single feature scattered over various chapters.

Some features are called by confusing names: why call two different features *Mixdown* and *Audio Mixdown*? (The latter mixes audio from several channels to one or two audio channels, creating a new audio File; the former simply moves audio events from several tracks onto one track, so you can group them together.) *Audio Mixdown* should have been called *Digital Bouncing* or something similar. It's even listed in the audio manual as '*Bouncing (Audio Mixdown)*'! And why call a feature which *Unmixes* tracks, *Remix*?

On the positive side, *Cubase* manuals are now properly-bound books rather than ring binders, and are decently printed.

▶ onto, because as soon as the original tracks are muted or deleted, their channels become available for playing back other tracks. Audio Mixdown bounces can even be in stereo, with all level, pan, EQ and effects settings intact.

Audio recordings show up on the Arrange page alongside MIDI tracks. You can use many of the same tools you'd use on MIDI data to move, copy, split and paste the audio, but for more detailed editing, you'll probably use the Audio Editor.

THE AUDIO EDITOR

This is the best place for audio track trimming and assembly — cutting a long recording into smaller Segments, masking parts of the audio with 'Inset Handles', editing volume and pan curves, and working with 'Q' (Quantise) and 'M' (Match) points.

Cubase has powerful features for quantising audio events in a similar way to MIDI events. However, since audio, unlike MIDI data, doesn't automatically contain reference points, the audio quantising procedure is inevitably more complex than MIDI quantising, since reference points have to be created. *Cubase* inserts 'Q-points' at sensible locations when you record, and when you perform operations such as splitting audio into smaller parts and manually punching in. There is only one Q-point per audio event, and they are used by the program to snap events to musical positions when you move audio, and also for quantising. Though *Cubase* inserts them, you can edit them. Match points are markers *inside* an audio event, which you or *Cubase* can generate. There can be many of these for one event; they should correspond to significant points, like beats in a drum part, and are used for creating audio groove templates, and Match quantising of audio to tempo, audio parts to MIDI parts, or even audio parts to other audio parts. These audio quantising features would be invaluable in certain situations, and it's nice to know they're there, but they are complex to use.

One operation you're likely to perform is deleting

VST AND PRO TOOLS

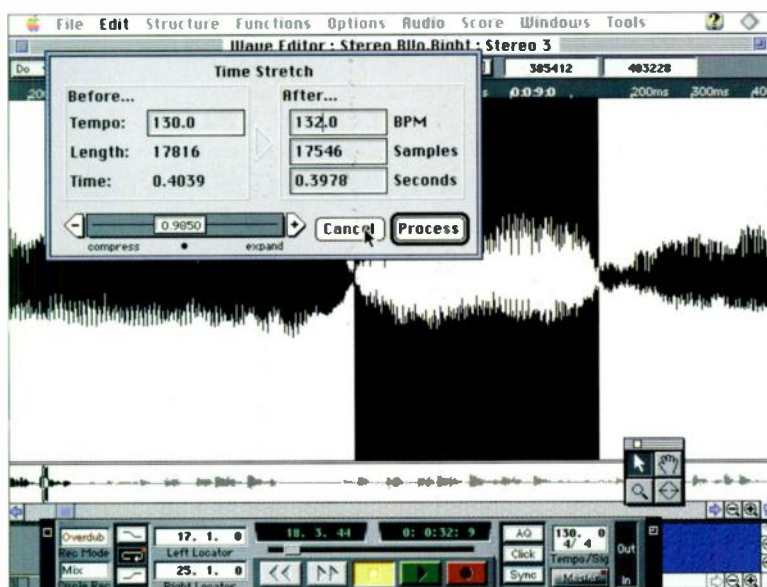
The PCI/NuBus Power PC/680n0 situation is very complex, and deserves some explanation. Pre-Power PC Macs cannot run VST, and Macs with PCI expansion slots (all Power Macs now in production) cannot drive existing Pro Tools systems, which require the older NuBus expansion slots. So, what of NuBus Power Macs, such as the 7100, which could conceivably drive a Pro Tools system and run VST software? Sadly, although you might harbour dreams of running TDM processing plug-ins in conjunction with VST effects and EQ, the two will not run together. *Cubase Audio XT* is still in

existence for Pro Tools owners, and is now being bundled with *Cubase Score VST* free of charge, so that NuBus Power Mac owners can access VST technology as well as Pro Tools — but only via separate software packages! However, Steinberg's UK distributors Harman say that it should be possible to address the hardware of Digidesign's Audiomedia cards (Audiomedia II for NuBus Macs and the new Audiomedia III for PCI Macs) from VST via the Apple *Sound Manager*. Incidentally, if you haven't already, check out the review of the new Audiomedia III PCI card on page 104 this month.

silence from an audio part, to save disk space. There is a special function for this, called *Banish Silence*, which is not very well explained in the manual. The waveform appears in a dialogue box with a pair of horizontal and a pair of vertical lines superimposed on it. You can move these lines so that they set a time and level threshold, selecting a 'slice' of the waveform that you consider corresponds to silence. *Cubase* then finds sections of waveform fitting the description and nukes 'em. However, the waveform display in the dialogue is small and a bit fiddly to use. We thought it more fun to simply blow the waveform up in the Audio Editor, go through it finding silent bits, which are quite obvious, and then deleting them. This doesn't take long for an average track. Deleting is done using the Backspace/Delete key, which removes the selected area of waveform from the display, or doing the same while holding down Command, which deletes it from disk too. Audition the waveform here by clicking on it with the magnifying glass, and scrub audio by dragging the mouse over the waveform in either direction. Auditioning is great, but scrubbing sounds like *Pinky* and *Perky* on speed! To edit several audio parts at the same time, selecting them in the Arrange page and then double-clicking on one of them displays all their waveforms in 'lanes' in the Audio Editor.

THE WAVE EDITOR

Audio Editor operations are non-destructive of Files on disk but Wave Editor operations work directly on the audio File. You can Undo your last operation, but going further than that will change the audio File permanently. So if you want to experiment in the Wave Editor, duplicate the File first and work with the duplicate. Once in the



The Time Stretch window. You can set stretch amount in tempo, samples, or absolute time.

Introducing the coolest upgrade path in all of digital audio.

Pro Tools® digital audio software is already the overwhelming choice of professionals. Here's one more reason to use it: Now Pro Tools comes in a wide range of products, starting at the amazingly low price of £599 (Ex VAT)*. With each upgrade, you'll actually build upon the value of your system. So you're not just making CDs and soundtracks. You're making a sound investment, too. For free Pro Tools product information, just call 0800 898331.



now
available for
**PCI-based
Macintosh
Systems**

Pro Tools[®] III

The ultimate workstation, it accommodates a wide variety of realtime Plug-Ins. 16-48 tracks of record/playback. 8-64 channels of high-quality analog and digital I/O.

Pro Tools Project™

All the capabilities of PowerMix and Audiomedia II or III, plus 8 tracks of simultaneous record/playback and 8 channels of analog and digital I/O.

Pro Tools with Audiomedia II™ or Audiomedia III™

Get 2 channels of high-quality analog and digital I/O, as well as entry to an entire family of DSP Plug-Ins. Audiomedia III is designed to work with PCI-based Power Macintosh computers.

Pro Tools Software with DAE PowerMix™

An amazing value that turns your Power Macintosh into a multitrack digital workstation, with no additional hardware.

Pro Tools PCI Preferred Dealers:

Audio Engineering, Dublin 03531 6717600 Digital Village, Barnet 0181 440 3440 MediaSpec, Glasgow 013552 72500
Natural Audio, Herts 0181 207 1717 Syco, London 0171 625 6070 The Synthesizer Company, London 0171 258 3454

digidesign
A Division of Avid 

RETAIL PRICE INCLUDING VAT (EUG 82)

Steinberg Cubase VST

► Wave Editor, you can zoom to single sample level, for detailed editing, and apply DSP functions: these include Fade-in and Fade-out of events; creating Crossfades between events; Inverting Phase; Normalising (to boost a quiet recording's level); Quietening (to reduce the level of a recording); Reversing; and Silencing (replaces a portion of audio with silence).

Rather more fun Wave Editor features are Pitch Shift and Time Stretch (see screen window on page 94). Briefly, Pitch Shift changes the pitch of an audio File without altering its length, and Time Stretch alters length without affecting pitch. Pitch Shift can change the key of a whole vocal, say, or just fix wrong notes, and it produces surprisingly good results as long as you make small changes. A shift of one semitone up sounds natural, and two semitones would probably be OK on a backing vocal in a mix. A downwards shift of two semitones is quite usable. Using Time Stretch for moderate tempo changes is effective too, but note that neither of these processes works terribly well on long stretches of complex audio.

More sophisticated pitch-shifting and timestretching is available from Steinberg's *Time Bandit* (an early version of which was reviewed in *SOS* April '94). If you have it installed, it's easily accessible from within *VST*; a couple of *VST*'s audio and tempo matching operations actually require *Time Bandit*.

THE POOL

When you've made several recordings, the Pool, a kind of database for keeping track of recordings, comes into its own. On opening it, you'll see a list of audio Files. Clicking on the arrow next to a File shows its 'Segment' list. Every File has at least one Segment, which is an instruction to play a portion

of the File. A Segment could play a whole File, or just part of it, and when you chop a recording into smaller bits, they become Segments in that File's Segment list. Because various operations create new Segments, the Pool can become crowded with Segments which may not be used in the current Song. The 'Purge Segments' function finds Segments which are not referenced, and deletes them from the Pool — although this doesn't affect the audio Files on disk. The Pool offers other File and Segment deletion functions, as well as showing where Files are stored, when they were recorded, their length, start and end points, mono or stereo status, and how often they're used in the Song. File renaming should be done here: if you rename Files in the Finder, *Cubase* may not be able to locate them next time the Song is opened. Though you can manually re-locate Files and tell *Cubase* their new names, it's best to avoid the problem altogether. It's also possible to drag Segments from the Pool into the other editors.

Administering recordings is easier if you understand what happens to Files when you delete them. To tidy a messy Pool, without actually deleting audio Files off disk, use the Delete key. Using Command-Delete removes Files from the Pool list *and* the hard disk — only do this if you're sure you don't want them. Another command to handle with care is Delete Unused Files: this finds Files not used in the current Song and removes them from the Pool and the disk.

The relationship between Files and Segments isn't too hard to comprehend (Files are full audio recordings, saved on disk; Segments are simply specifications for playing sections of Files), but there's another term to get used to: Audio Events. You could compare these to MIDI Note On messages for audio, since they tell a Segment where to start playing. One operation that illustrates the distinction between Audio Events and Segments is making an Audio Event play back a different Segment to the one it's currently playing. Clicking on an Event in the Audio Editor, while holding down Command and Option, brings up a menu listing all the Segments in that audio File. You can then choose another Segment for the Event to play — a verse vocal Segment could be played back by the Event that's currently playing the chorus vocal Segment. Fortunately, Audio Events are pretty much invisible to the user, and you can usually ignore them and concentrate on working with Segments.

EFFECTS & EQ

Apart from support for Power Mac audio, *Cubase VST*'s other brand-new features are its four effects processors and comprehensive parametric EQ (shown left). Steinberg are encouraging third-party manufacturers to develop *VST* plug-ins, so more effects and processors should be available soon.

VST's effects are accessed from the Monitor Mixer, where four effects 'sends' route pre- or post-fader signal from each channel to the effects. They're presented in a 'rack', and are very nicely

COPIES & DUPLICATES

In *Cubase VST* there's an important difference between copying audio events and duplicating audio Files. There are two kinds of copies of audio events: real copies and ghost copies. Neither of these duplicates the actual audio material on disk in any way, and if you use a copy when working in the Wave Editor, permanent changes you make there will still change the audio File on disk. To really duplicate audio, creating a new File on disk, you *must* use 'Duplicate File' in the Pool. Then you'll be free to experiment with the duplicate, safe in the knowledge that the original is unscathed on disk. The audio manual refuses to hammer home the difference between copying audio events and duplicating audio Files. Indeed, when you look up Duplicating in the contents list, you're directed to a page which explains making copies of events!



EQ setup window and effects sends: there are two EQs showing here, but you can have as many as four per channel if your system permits it. The 'Dry' button at the top of the effects send column kills all sends for that audio channel.

READ THE SMALL PRINT TO SAVE MONEY

SAMPLER POWER PACKAGES

FREE SCSI Zip Drive and 100Mb cartridge with selected samplers listed below:

- EMU ESI 32 8Mb RAM with 100Mb Zip Drive £CALL!
- EMU E64 with 10Mb RAM 850Mb Internal HD £CALL!
- EMU E64 with 32Mb RAM £CALL!
- EMU E64 with 64Mb RAM £CALL!
- NEW EMU EIV KEYBOARD £CALL!
- EMU EIV with 32Mb RAM £CALL!
- EMU EIV with 64Mb RAM £CALL!

WE HAVE LIMITED STOCK OF THESE MONSTER DEALS SO HURRY!

If you have a particular spec, call us now for the hottest price

AKAI SAMPLER POWER PACKAGES

- AKAI S2000 10Mb RAM £999.00!
- AKAI S2000 10Mb RAM and SCSI Zip Drive £1199.00!
- AKAI S3000XL 10Mb £CALL!
- AKAI S3200 XL 18Mb and SCSI ZIP DRIVE £CALL!
- AKAI S3000XL 18Mb with Effects Card £CALL!
- AKAI S3000XL 32Mb WITH ZIP DRIVE . £2299.00!
- AKAI S3200XL 32Mb with ZIP DRIVE . £3349.00
- AKAI CD 3000i 8Mb Sampler LAST FEW £1925! FREE ZIP

- KURZWEIL K2500R with sampling option and 32Mb £CALL!
- NEW KURZWEIL 2500 Keyboards from . £3149.00

BUY ANY OF THE ABOVE SAMPLERS AND HAVE FREE ACCESS TO OUR SAMPLE LIBRARY.

NEW YAMAHA SUIO Sampler at only . £299.00 with PSU and next day delivery*

CHECK OUT THESE PACKAGE DEALS:

- YAMAHA SUIO with Yamaha SY85 with 2.5Mb Sample memory . £1079.00 inc next day delivery*
- PEAVEY DPM3 keyboard 512k sample memory with sample editing facility and Yamaha SUIO Sampler . £999.00! INCLUDES FREE LIBRARY
- ROLAND S760 BUNDLE with 8 outputs, digital I/O card with Monitor and 32 MB plus the DA-400 digital to analog converter for UNDER . £2500.00 call for the exact price on this very limited offer!

DISK DRIVES

- omega Zip drive with cartridge and cable . £199.00
- omega JAZ drive 1Gb removable . IN STOCK £CALL
- Syquest 135Mb EZ drive with cartridge and cable . £215.00
- 230Mb Optical drive with 5 cartridges . £CALL!
- Fixed External drives from £149.00

DIRECT TO DISK RECORDING

COMPLETE APPLE MAC/DIGIDESIGN SYSTEMS. EXAMPLE:

S/H Apple Quadra 650 20/500/CD New 14" Monitor extended Keyboard and Mouse with Digidesign Audio Media II card/Logic Audio 2. 1Gb Hard Disk £2999.00 inc VAT. Call for pricing on other specs.

New Roland VS880 IN STOCK SUPERB 8-TRACK UNIT CALL FOR PRICING
NEW FOSTEX D80 8-track direct to disk recorder. This new recorder from Fostex can be linked together to create a 24-track digital SYSTEM for under £4500.00!



FOSTEX DMT8 Back direct to disk portastudio in stock. Home studio quality like never before for only £1399.00 inc next day delivery*.

EMU DARWIN with internal 1Gb Hard Disk 8 track system in stock PRICES FROM £2750.00!!
Special deals on AKAI DR8 with MT8 Remote £CALL

KEYBOARDS

NEW EVOLUTION MIDI 49 NOTE KEYBOARD WITH PC SEQUENCER SOFTWARE FOR ONLY £119.00!

KORG TRINITY

The silver bird with touch screen and optional direct to disk recording...IN STOCK

KORG TRINITY PLUS

Only gets better - A Trinity with a built in Prophecy! IN STOCK AND ON DEMO.
KORG PROPHECY Mega mono synth.

NEW ALESIS Q56 4 voice synth - comes with free CD ROM for Mac & PC loaded with software £799.00! inc next day delivery*

ROLAND XP10 real time filter controll... £CALL!

ROLAND XP50 our best selling workstation on demo, loads of expansion cards available.

ROLAND XP80 76-note version of above in stock

KORG X3 - NEW LOW, LOW PRICE! Korg X5 and X5D in stock.

Yamaha SY85 with 2.5Mb sample RAM £799.00 inc free next day delivery*.

Full range of FATAR controller keyboards in stock.

NEW ROLAND A33 MIDI KEYBOARD £369.00
Roland RD500 NEW LOW PRICE £1699.00.

HOT NEW ANALOG

NEW YAMAHA CS1 real time controller synth keyboard £599.00

NEW ROLAND MC 303 it's 303-909-808 and 9H '01 all in one box! PLACE YOUR ORDER NOW - if you wait you'll be disappointed £ 585.00

NEW EMU ORBIT dance module 512 presets Emulator 4 filters six outputs unique 'beat mode' need we say more? dance your socks off for only £869.00



BASS STATION RACK in stock yours for £339.00

NEW WALDORF PULSE IN STOCK RRP £599.00 £CALL

NEW NOVATION DRUMSTATION 808 & 909 in a rack for just £419.00 inc next day delivery*

AKAI SGO1v Vintage synth module £269.00 inc free next day delivery

MODULES

AKAI MODULES IN STOCK £299.00!
KURZWEIL MICRO PIANOS IN STOCK

Call for the hottest deal
ROLAND EXPANSION Modules in stock.

ROLAND SC50 Sourd Canvas. £479.00 inc free next day delivery*.

PEAVEY Spectrum Filter Modules DEAL!

PEAVEY Spectrum Organ Module DEAL!

PEAVEY Spectrum Bass Modules DEAL!

PEAVEY Spectrum Synth Modules DEAL!

PEAVEY Spectrum Filter Modules DEAL!

KORG O5/X5DR Modules in stock

Yamaha MUBO 64 voices with 32 midi channels £ NEW LOW PRICE



RECORDING

Fostex D5 Pro DAT Machine with 10 free TDK 60 DAT £879.00 inc next day delivery*

Tascam DA20 DAT Machine with 5 free TDK 60 DATS £699.00 inc next day delivery*

Tascam DAP1 Portable DAT with 10 free TDK 60 DATS £1349.00 inc next day delivery*

Sony DTC 60ES DAT Machine with 5 free TDK 60 DATS £680.00 inc next day delivery*

Lexicon Alex in stock

Lexicon Reflex in stock

Lexicon Vortex in stock

LA Audio CX2 £219.00 in stock

LA Audio GX2 £219.00 in stock

Full range of Alesis effects in stock

Aphex Big Bottom £269.00!!

Alesis Monitor one's £299.00 inc next day delivery*

Alesis Monitor Two's £649.00

Fostex XR3 - XR5 - XR7 all in stock

MACKIE MS1202-VLZ in stock CALL!

MACKIE MS1402-VLZ in stock CALL!

MACKIE CR1604-VLZ in stock CALL!

MACKIE SR series 24-track 4 bus Limited Offer £1199.00

Behringer 24/8/2 Eurodesk. Call for the lowest price around

SOFTWARE SPECIAL DEALS

SPECIAL LOGIC P6 for friends 2 for the price of 1 last few - CALL!

Cubase for PC - LOADS of Steinberg - Emagic - Motu Opcode software for Apple and PC in stock.

Mac and PC MIDI interfaces always in stock.

Time and Space CD jukebox in store LOADS of CD's in stock.

New Cubase VST for Mac in Stock CALL!

SPECIAL INSTRUMENTS

Ro and VGB Guitar simulator in stock on demo CALL!

Project Music is an exclusive AKAI EWI Wind Synth Centre.

SECOND HAND AND EX DEMO GOODIES

S/H Roland S10 Sampling Keyboard with library £399.00

S/H Yamaha DX9 £189.00

S/H Roland S550 with monitor and library £ 699.00

S/H Roland D110 (2 units) £289.00

S/H Akai S900 with library £599.00

S/H Digidesign Audio Media II card with software £549.00

S/H Akai S2000 with 10Mb and 200Mb hard disk as new £1099.00

SPECIAL OFFER FOR SATURDAY SHOPPERS - SPEND £1000 OR OVER IN PROJECT ON A SATURDAY AND HAVE A FREE INDIAN CUISINE MEAL FOR 2 WORTH £35

- CALL FOR DETAILS

Instant Credit facilities available call for a quote. All major credit cards accepted.

*next day delivery does not include Saturday or Sunday delivery.

INTERNET WEB PAGE:

<http://www.millhouse.co.uk/project>

EMAIL: 100764.2103 @compuserve.com.

PROJECT Music

OPEN TUESDAY TO SATURDAY
10.00 - 6.00

TELEPHONE

0181 570 4444

433 - 437 GREAT WEST ROAD, HOUNSLOW MIDDX. TW5 0BY

MUCH, MUCH MORE IN STORE

Steinberg Cubase VST

► styled, with metallic finish and 3D controls. The effect types are:

- ESPACIAL, an editable reverb.
- CHORUS, a chorus/flange hybrid, also fully editable.
- Stereo Echo, a simple programmable stereo delay.
- Auto-Pan, also programmable (see box for effect editing parameters).

Effects can be configured as four of one type, two of two types, or any combination, to a maximum of four processors. Equally welcome are the banks of preset effects, and the ability to save custom effects, individually or in banks.

Speaking subjectively, the quality of the effects is easily as good as standard hardware processors, and all changes can be heard in real time. It's tremendously useful and very intuitive to have effects on tap within an audio sequencer, and now those of us who can't afford a TDM system can feel the benefit! Having four processors gives plenty of scope, but remember that the Audio Mixdown feature mentioned earlier records all EQ and effects settings for audio tracks, thus freeing up effects for 'live' processing — like recording effects to tape in a traditional studio.

Each band of EQ has a frequency range of 20Hz-16kHz. Steinberg have thoughtfully provided four presets — Lo, Lo mid, Hi mid and Hi — for instant access to four bands of EQ in useful frequency ranges. Control is also provided for gain (+/-12dB), centre frequency, and bandwidth. Once again, presets are provided for bandwidth, from wide to very narrow. The EQ is very good,

The Arrange page: audio tracks are shown as waveforms in the lower part of the track display. The Transport bar is at the bottom, and the Track Inspector, left, is where audio channels are selected and tracks record enabled.

and is capable of being as drastic or as subtle as you want, with all results in real time.

THE GOOD & THE BAD

We found odd problems when working with VST, but none were insurmountable. Most difficult, perhaps, was getting used to how careful you have to be with Power Mac input levels to avoid distortion. You also have to be a little careful with playback levels. You can boost a signal by up to 6dB, and this is generally plenty, but you may get the odd crackle of distortion if you boost all your audio channels at the same time. Just pull back a fader or two and it cures the problem.

Other niggles include the fact that EQ setup pages are usually accessed from the Monitor Mixer via 'FX' buttons — most people would intuitively click on the adjacent 'EQ' button, but this only works the first time you select the EQ page for that channel; subsequent clicking on the EQ button simply turns EQ on and off. To add to the confusion, the manual states that the EQ button opens the EQ page, while an accompanying diagram indicates the FX button! Also, setting exact values in the effects window with the mouse is incredibly difficult; the manual gives a technique for fine control over parameter dials, but this simply doesn't work well enough on the effects display, and you can't simply type a value into the display window.

In places, it feels as though the loose ends of the audio side aren't completely tied up. For example, the manual says audio tracks can't be put into Group Tracks (as MIDI tracks can) but if you try to anyway, the software lets you go almost all the way there but won't complete the procedure. There's not even an alert to say "Not with audio please!" And even if you save a Song before quitting, when you close down the software, a dialogue asks if you want to save your Song — Cubase doesn't sense that you've just done it. Another irritating point is that the manual says explicitly that Cubase automatically groups stereo recordings: *it doesn't*, which can be

VST EFFECTS EDITING PARAMETERS

- **ESPACIAL:** Room Size, Reverb time, Early Reflections, Output Level.
- **CHORUS:** Delay, Feedback, Width, LFO Frequency, Glimmer, Level.
- **STEREO ECHO:** L&R Delay Times, L&R Feedback Amount, Link, Balance, Level.
- **AUTO-PANNER:** LFO Frequency, Width, Waveform, Level.

The Echo has a maximum delay time of one second per channel, or two seconds mono if the channels are linked.



CUBASE MIDI SEQUENCING IN BRIEF

The MIDI sequencing side of Cubase is so well known that there's little point in going into great detail here — check out past SOS reviews and features (listed in a separate box elsewhere in this article) for a more in-depth summary of its features. However, for anyone who's never used Cubase, here, briefly, is what the program's MIDI side offers. And remember, we're only scratching the surface.

At the heart of Cubase is the Arrange window (shown above), where you'll do the majority of your sequence recording and organising. The track list, which includes track names, MIDI routing information and so on, is on the left, with the linear tracks to the right. Each track also has an 'Inspector' box for altering playback parameters, including transposition, volume, velocity offsets, program change numbers, and patch names. The horizontal bars representing MIDI tracks can be pretty freely cut, copied, split and moved around to create the finished product, and MIDI data can be extensively manipulated in the main editors:

- **KEY EDIT:** a typical piano roll editor, with notes

shown as horizontal bars, and a controller information and velocity display underneath.

- **LIST EDIT:** a list of raw MIDI data, including notes, velocity values, programme changes, and System Exclusive data.
 - **SCORE EDITOR:** using traditional notes and staves. Layout options in Cubase are comprehensive, but are enhanced further with Cubase Score and Cubase Audio XT, both of which rival dedicated notation software.
 - **DRUM EDIT:** a dedicated editor for drum parts, showing notes and velocities as diamonds on a grid.
- In addition, Logical Edit and the Interactive Phrase Synthesizer (IPS) offer more esoteric facilities for changing data or creating new parts from old. IPS could be used to create a real-time arpeggiator, for example, while Logical Edit allows you to selectively transform one kind of MIDI data into another. Both are impossible to sum up in a few words.

For studio or film and video professionals, Cubase offers a range of synchronisation options, plus a

sophisticated Master Track for tempo and time signature changes. Tracks can also be 'time locked'. This feature allows you to use multiple tempi in an arrangement, create crossfades between songs of different tempo, and keep certain events at absolute positions, while changing the tempo of the rest of the song.

Comprehensive MIDI mixer options are also available, and creating your own from scratch is fairly straightforward. Users with MIDI Machine Control-equipped hardware can use Cubase to control track selection, recording and playback on their equipment.

One notable feature of Cubase is that its interface is similar across all platforms. There are differences (some keyboard shortcuts, for example), but in general, users crossing platforms should find themselves in a familiar environment. Of course, the downside of this is that every version has resemblances to the original Atari program from 1989. One exception is the new Mac VST extras, which feature very polished graphics.

vexing when you move them about and only one half of the stereo track responds, thus throwing out your track positioning. Sometimes, the Wave Editor temporarily refused to audition processed waveforms, though it soon recovered on each occasion, and finally, using Mixdown (not Audio Mixdown — see the 'Manuals' box for the distinction) to group several tracks onto one track was unpredictable in operation. It didn't always mix down all the chosen tracks, affecting perhaps three or four out of five selected, for example. This point has been passed on to Steinberg, who are now working to fix the anomaly.

There are many nice touches which balance the above, though: audio continues playback during other operations, even when you're changing effects and EQ settings; faders in the Monitor Mixer can be linked in adjacent odd-even pairs by holding down the Option key while moving one fader, and the Option-linking of channels usefully extends to effects and EQ settings; Power Mac native code means that VST runs very fast even on our 75MHz machine; and the sound quality of VST audio recordings (16-bit, 44.1kHz sample rate) is subjectively rather good. VST also seems stable: during our time with the software, it only crashed once.

CONCLUSION

The bottom line is that Steinberg have added powerful *Cubase Audio*-like features, plus an as

yet unprecedented selection of digital effects and EQ, to their basic MIDI sequencer for a starting price of £329 — and that's simply amazing. For integrated MIDI sequencing and audio recording on a Power Mac, there is nothing as cheap with a similar feature set. Although the Power Mac's audio hardware is not as good as you would get from a Digidesign board, the audio quality obtainable with VST is easily good enough for demos, and exceeds the performance of cassette-based multitrackers.

Many a home studio-based musician will have been looking forward to such a cost-effective, all-in-one solution to MIDI sequencing and digital audio, and in this context, VST is a great success.

SOS

E *Cubase VST* £329; *Cubase Score VST* £499; *Cubase Audio XT* £699 (bundle includes *Cubase Score VST & Time Bandit*).

All prices include VAT.

A Harman Audio, Unit 2, Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts WD6 5PZ.

T 0181 207 5050.

F 0181 207 4572.

CUBASE IN SOS

REVIEWS:

- *Cubase* (ST) August 1989
- *Cubase* (Mac) October 1990
- *Cubase v2.0* (ST) December 1990
- *Cubase for Windows* February 1992
- *Cubase v3.0* (ST) April, May 1992
- *Cubase Audio* (Mac) November 1992
- *Cubase Score* (Mac) October 1993
- *Cubase Audio DAE* (Mac) October 1994

FEATURES:

- *Cubase* MIDI Mixer: October, November 1992
- Living with *Cubase* on the Falcon: September 1994
- *Cubase* Logical Edit: March-May 1995
- *Cubase* SY85 Mixer Map: June & August 1995
- *Cubase* Basics: September-December 1995.

From: *Guitar Institute, Drumtech, Basstech*

.....The Market Leaders in
Pop Music Education
Now for....

"KEYBOARD PLAYERS"

- 1 Year Diploma Course (Fulltime Sept '96)
- 3 Month Fulltime Course (July/Sept)

Phone Now for a Free Brochure

KEYBOARDTECH
KEYBOARD SCHOOL

Tel: 0181 749 3131

*The Powerhouse, 74 Stanley Gardens,
Acton, London W3 7SD*

Memory & Disk

and more..

A/V SCSI 2 3 Gig. (GB) seagate **£ 533**

SIMMS 8 Mb (72p) < 70 n/s **£ 92**

CD Mastering £ 15 per 74min CD

*All scsi Hard Drives are FAST scsi 2 with access times of < 9 m/s
all drives are 3.5" sized with onboard burst cache memory*

Hard Drives SCSI

FAST SCSI-2 < 9 m/s
> 5 MB per /sec transfer
3.5" with onboard caching
1 Gig. (GB) 'NEC' £ 196
2 Gig. .Conner... ..£ 397
4.2 Gig. Quantum. . £ 674

Hard Drives E/IDE

enhanced ide drives
3.5" onboard cache
average 10-11 m/s

1 Gig. (GB)....NEC...£ 149
1.6 Gig. (GB)....NEC...£ 179
2 Gig. (GB)....NEC...£ 245

CD RECORDERS - x2 Speed - £ 669

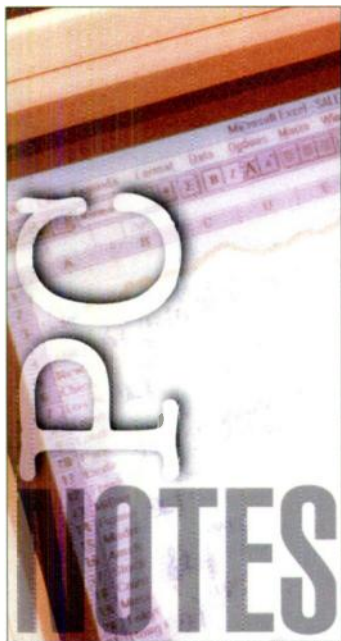


Fields & Jarvis

0181 374 1034



All goods new, boxed - 1 - 3 years warranty - all prices exc. Vat



Faced with unfinished album sessions on analogue tape and a studio full of PCs and digital gear, BRIAN HEYWOOD gets a chance to find out how flexible modern equipment really is.

Bearly in January, my band and I decided to make a concerted push to finish the album that had been on hold since our old drummer went off to Australia (maybe it was something we said?). Nightwatch is my folk/rock/jazz fusion band; we've been together about 10 years now, but we've never quite got around to recording a full-length album. The timing seemed ideal, the new line-up had settled down, and I didn't have any major projects

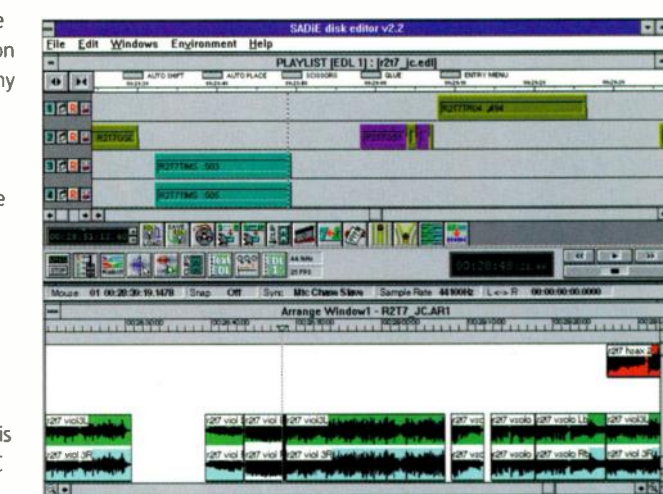
tying up the studio. As the production relied heavily on the PC-based systems in my studio, I thought it might be of interest to the readers of this column.

The studio is really quite modest by commercial standards, with three recorders: a single ADAT (eight tracks), Soundscape SSHDR1 and SADiE hard disk recorders, both the latter being hosted on a 486DX33 PC. Sequencing is provided by a 486DX50 PC running Voyetra's *Sequencer Plus Gold* — a DOS-based package — and interfaced to the MIDI instruments via a Voyetra

V24s interface. The synthesizers used for this project were a Yamaha TG77 and TG500, a Roland Sound Canvas (CM300) and an Akai S950 sampler. We had up to 16 audio tracks at our disposal, which is actually one more than when we did the original sessions for the album on 16-track tape, since we didn't need to allocate a track for timecode.

REELING IN THE YEARS

The original sessions had been recorded using a Fostex 16-track, so we had two reels of half-inch tape with some basic rhythm and melody tracks that we didn't want to lose, plus timecode on track 1. The first job was to transfer the material we already had to the ADAT. So I arranged with the truly wonderful Vic Lennard to hook his Fostex 16-track to the ADAT via a JL Cooper DataSync2 and a Fostex synchroniser. As we had to redo all the drums, we didn't need to transfer them and — as there were never more than eight tracks of other instruments — the ADAT had enough tracks to take the material. Once we had worked out how to get the two sync boxes



It was quite feasible to have both hard disk systems using one display at the same time, using the 'Maximize' buttons whenever more detailed control was required. The Soundscape waveform displays helped to show what was going on.

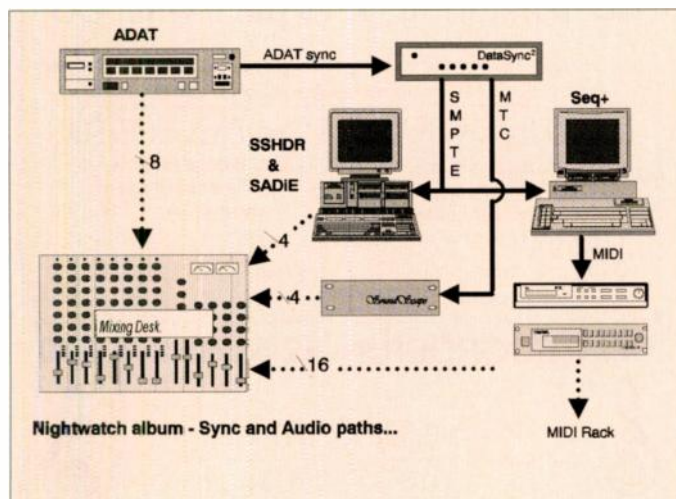
they would need to run through almost all of the tracks; secondly, we wanted to keep the tracks together on the same recorder, and the hard disk systems only have four individual outputs apiece. The first of these points shows an advantage of traditional tape-based recording: you have considerably more storage space than is common and affordable in a hard disk system. Consider a 42-minute ADAT tape: you get the equivalent of $8 \times 42 \times 5.025\text{Mb}$ (digital audio requires about 5Mb of disk space per minute) — 1.7Gb of storage per reel. Just for the drums we would have needed more than 2Gb of hard disk storage (we went into a second ADAT tape). Hard disk systems store data much more efficiently than a tape-based system, but in this case, this feature would have not made any difference.

LET'S WORK TOGETHER

For the rest of the project, the ADAT was the 'sync master', which is to say that the computers all derived their synchronisation from the ADAT via the DataSync2. This was because we had no way of getting the ADAT to 'chase' external SMPTE timecode generated from the computers. This system turned out to be very robust (at least when the ADAT was working) and only had the slight downside that the ADAT had to be continuously cycled when performing overdubs — which slowed things down a bit and increased head and tape wear. The JL Cooper device is a little gem, as it directly converts the ADAT's internal sync signal into MTC and SMPTE — and even MIDI clock and SPP (Song Position Pointer) if required. This meant that we could drive the Soundscape system directly off the MTC output while SADiE and the sequencer were being driven by the SMPTE timecode output.

Back in the studio, I transferred most of the tracks onto the hard disk systems, since we wanted to record the new drum parts onto the ADAT. The reason for this was two-fold: firstly, the new drum parts were likely to need the most 'space', since

Creating the final version of each track was a three-stage process: track-laying, mixing, and post-production. The track-laying consisted of overdubbing new performances onto the various recorders, which sometimes got slightly confusing, especially if we were swapping



Sync'ing two hard disk recorders to the ADAT was simple using the JL Cooper DataSync2.

▲ APPLE ▲ WAVES ▲ DYNAUDIO ▲ DIGIDESIGN ▲ E-MAGIC ▲ STEINBERG ▲ MACKIE ▲

YAMAHA ▲ NORD LEAD ▲ AUDIO TECHNICA ▲ AKAI ▲ EMU ▲ ROLAND ▲ DENON ▲ KORG ▲ QUASIMIDI ▲ ALESIS ▲ SENNHEISER

FOSTEX ▲ BEHRINGER ▲ DYNATEK ▲ SONY ▲ TASCAM ▲ MACROMEDIA ▲ AKG ▲ DIGITECH ▲ OPCODE ▲ DRAWMER ▲ MOTU



Why are we the UK's most recommended pro-audio dealer?



CALL:
Natural audio

Natural Audio Ltd.
Suite 6, The Kinetic Centre,
Theobald Street, Borehamwood, WD6 4SE.
Tel: 0181 207 1717 Fax: 0181 207 2727 Email: 100565_3561@compuserve.com



PC NOTES

► between the two hard disk recorders: their user interfaces have substantial differences, especially with respect to their keyboard shortcuts. On the whole, I think I preferred using the Soundscape over the SADiE for track-laying, although it was slightly annoying to have to define the start and end points of

each take before commencing recording (thankfully, this requirement has been removed from the latest version of the Soundscape front-end software).

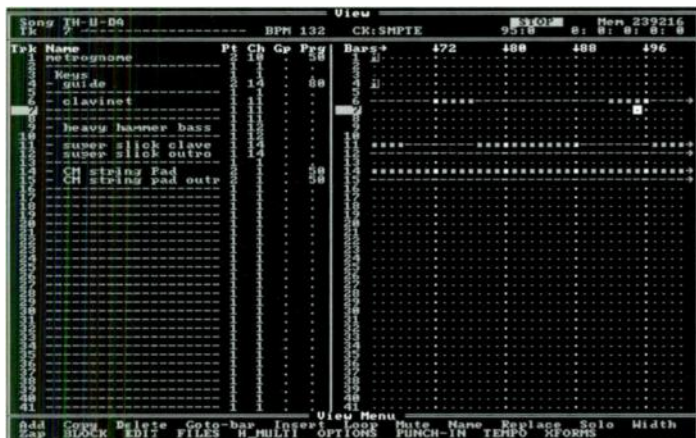
The live parts were laid down in sync with the sequencer, which we used to record a live performance rather than pre-sequencing the

parts. The live instruments tended to be placed on the same tracks for each song, so that the basic monitor/mix layout remained constant. While this removed some of the flexibility of the system, it prevented us from getting confused when recording new tracks. This also paid off at

mixdown, since the EQ for these tracks stayed pretty much the same. It wasn't too much of a problem to transfer an ADAT track to SADiE, correct any minor glitches, and then transfer it back, though we only really did this with the tracks recorded two years previously. When recording live tracks, we tended to repeat the overdub if there was some problem. The whole point of this approach was to keep the sessions as natural as possible, so the technology wouldn't get in the way of the creativity and feel of the recordings.

MIXING IT

After taking a break for a couple of weeks, the producer and I settled down to mix the tracks. As we don't have an automated desk, we used a technique of setting up a static — or at least a very simple — mix, and then recording it onto DAT. Each segment of the mix was recorded with a couple of seconds of material on each side of the edit points, so that we could crossfade between them. The segments might be several minutes long or only a couple of seconds, depending on what we were trying to do. As we created the mix in stages, we were able to



Voyetra's Sequencer Plus Gold still provides the best sequencing solution for me, due to its multitrack recording facility and rock-solid synchronisation.

CUT THE HYPE, LET'S GET REAL

Musicator Audio combines MIDI sequencing, music scoring and up to 16 individual tracks of hard disk recording, in a single, elegantly designed Windows™ program.

Record and playback using single or multiple sound cards. View, edit and mix Audio and MIDI tracks side-by-side. Import wave files. Drag and drop them at will. Mix everything down to one track.

Do other programs give you recordable, realtime control of volume and pan for each audio track? Can you meter the output level of each audio track in realtime?

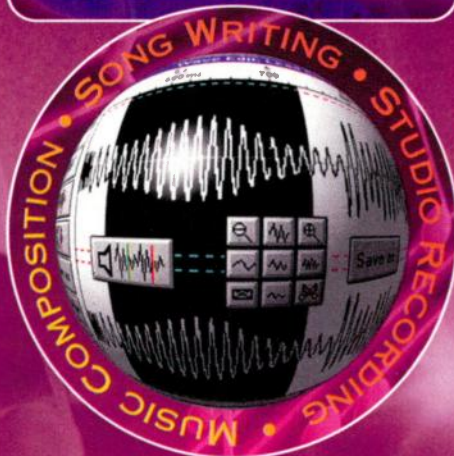
NOTHING BEATS A LIVE SOUND

Record vocals and live instruments directly to hard disk and synchronise them perfectly to your MIDI tracks. Import wave files and drop them anywhere in your sequence.



THE FINEST PC SOFTWARE FOR:

- HD RECORDING
- MIDI SEQUENCING
- MUSIC NOTATION



Leading The Digital Audio Revolution

A SEQUENCING AND SCORING POWERHOUSE

Create giant scores and in seconds extract individual parts. Musicator Audio leaves other programs in the dust. Transcribe any tuplet and beam the notes any way you want. Write drum parts. Draw in your MIDI controllers. Tweak notes on the Piano Roll. Add chords, lyrics and dynamics. Sync MIDI to

MUSICALLY CORRECT RESULTS

Most Notation programs play back exactly what's written, sounding very mechanical. Musicator Audio's sequencer lets you control every performance gesture and musical nuance. Edit your music the way it sounds (MIDI data) vs. the way it looks (notation). Musicator knows that performed music is not always the same as written music.



SMPTe. You can even export notation to Pagemaker™ and other DTP programs.

Only Musicator Audio gives you the best of the best. Why bother with inflexible multi-track tape decks or expensive hard-disk recorders? ~Musicator Audio does it all in a creative and easy to use environment.

For further information please contact
ARBITER GROUP PLC
 Wilberforce Road, London NW9 6AX

generate an extremely complicated final product.

The post-production stage consisted of digitally copying the audio segments from the DAT back onto SADIe and then stitching them together in the editor's Trim window, with crossfades to ensure that the joins were seamless. Then it was simply a matter of putting the finished tracks in the right order, balancing their overall levels, setting the inter-track gaps to the correct length, and copying the material back to DAT via the S/PDIF digital output. The DAT could then be used as a production master. We backed up the EDL (Edit Decision List) of the master from SADIe to DAT, so that the mix can be tweaked at a later stage if required. One nice feature of the SADIe is that it allows you to burn a Red Book standard 'gold disc' CD using a CDR drive (in our case, a Yamaha CDE100) and then play the mix in any domestic CD audio player — which is a great way of sending the finished product to interested parties.

THE LAST WORD

As this was the first album-length project I had recorded with this particular studio

LET YOUR FINGERS DO THE WALKING

While I'm talking about hard disk recorders, Sypha have just released the 5th edition of their excellent *Tapeless Audio Directory*. This A4-format book describes over 300 non-linear audio systems, ranging from Windows soundcards and software packages up to expensive professional dedicated systems. The directory is an indispensable aid to anyone buying a system for professional use — or

just for keeping in touch with what's going on in the tapeless recording world. The coverage of some of the low-end systems is fairly brief, but as contact details are included, more information is always available for the cost of a phone call. Highly recommended. It's available from the SOS Bookshelf at £14.95 plus £2.50 UK p&p (£4.50 overseas). The order code is B304.

configuration, I learned a few things about how to best use the equipment. The first is: don't forget to back up your data. This does not apply only to the hard disk systems: the ADAT went down during the course of the project, causing damage to a 30-second section of tape. Unfortunately, the ADAT data had never been backed up, so that section is lost forever. If you don't have two ADATs, consider hiring a machine for the day on a regular basis — say for once a week, or at key points in the project.

In an ideal world, I think I'd prefer a single hard disk system working with the ADAT, so I'm rather looking forward to seeing the

planned new Soundscape hardware, which it seems will expand the number of separate inputs and outputs — the Soundscape would be my system of choice for track-laying and mixing at present if it had enough outputs. We could also mix directly to SADIe rather than to DAT, simplifying the mix and post-production phase, and reducing the wear and tear on the DAT recorder. One last point about using a hard disk system in this kind of project is that you can never have too much hard disk space. We ended up with only 40 seconds of free space on the Soundscape system. Still, we couldn't have done it without the two hard disk systems. **SOS**

THE Sample Editor For Windows™ - And More



SONIC FOUNDRY'S™ SOUND FORGE™ 3.0,

is a full-featured Windows based sound editor intended for musicians, sound designers and multi-media developers. Sound Forge offers advanced editing, audio-processing effects, creation of loops and regions and generation of



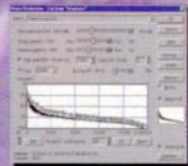
playlists. An expandable plug-in architecture tailors Sound Forge to any application.

SOUND FORGE XP

Sound Forge XP, a general purpose sound editor, provides the same, easy to use interface found in the professional edition, and is intended for sound designers, multimedia developers and hobbyists requiring a powerful yet affordable sound editor.

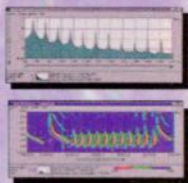
NOISE REDUCTION PLUG-IN

Now there's no need to slave away filtering noisy recordings. Sonic Foundry's Noise Reduction plug-in is designed to automatically remove background noise such as tape hiss and electrical hum. Click Removal is also included, allowing you to eliminate clicks and pops automatically.



SPECTRUM ANALYSIS PLUG-IN

If you need to identify that particular frequency component, you'll find the Spectrum Analysis plug-in a great addition. Spectrum analysis includes Spectrum Graph and Sonogram display for easy frequency (or pitch) identification.



BATCH CONVERTER PLUG-IN

The Batch Converter plug-in is a time saving utility for those needing to convert tens, hundreds or even thousands of sound files to different formats automatically. All plug-ins require Sound Forge 3.0.



Call 0181 202 1199 for a FREE demo disk.

Session

Digidesign's *Session* digital recording software has now made the transition from Apple Macintosh to Windows-compatible PCs, a feat made possible by the simultaneous release of the company's first PCI-format digital I/O card, the *Audiomedia III*.
PAUL WHITE checks out both.

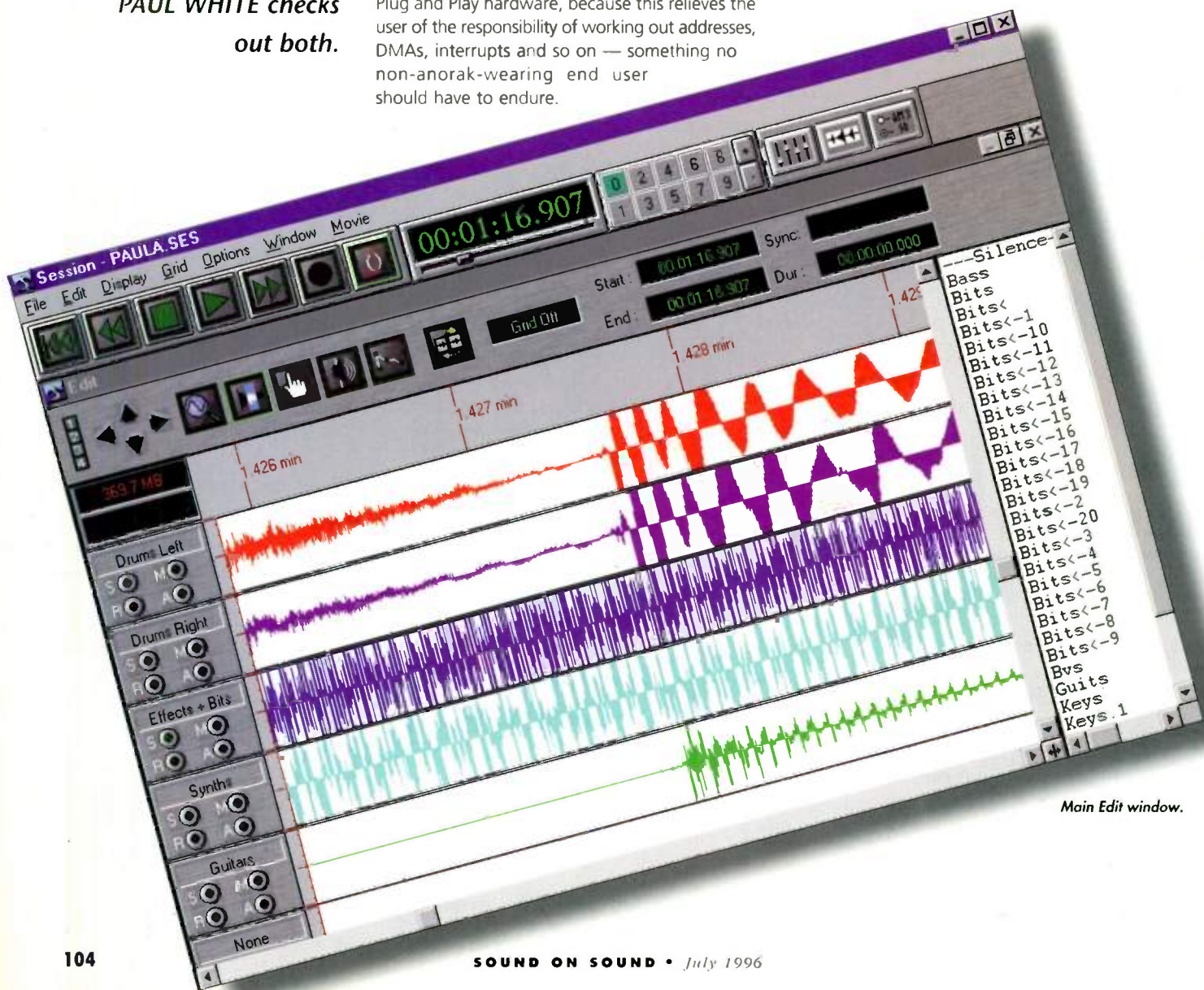
in progress

DIGIDESIGN SESSION DIGITAL RECORDING SOFTWARE FOR WINDOWS • DIGIDESIGN AUDIOMEDIA III PCI CARD

As a relative newcomer to PCs (see the Leader column in *SOS* May 96 for the full story), I've made a conscious decision only to work with Windows 95; vintage operating systems hold far less appeal for me than vintage audio equipment! I've also decided that wherever possible, I'll only deal with Plug and Play hardware, because this relieves the user of the responsibility of working out addresses, DMAs, interrupts and so on — something no non-anorak-wearing end user should have to endure.

The old approach of Plug and Pray holds no appeal for me whatsoever, though anyone who ever spent a whole summer trying to solve Rubik's cube might find it has its attractions.

Session for Windows is the first piece of PC software I've had to write about, but for me, the similarities between its user interface and that of



Main Edit window.

Millennium

Music  Software

1 HURTS YARD, NOTTINGHAM NG1 6JD
 TEL: 0115 955 2200
 FAX: 0115 952 0876

ensoniq

We have the UK's best prices on Ensoniq & that's guaranteed!!!

In Stock Free next day delivery on TS10/12

Call us for the best UK deal on: Ensoniq TS10



ASR10
Keyboard
& Sampler



Ensoniq DP4 Plus
 Supreme quality 4 channel effects processor.
 4 independent line and aux
£999

Ensoniq DP2
 Dual Channel effects processor
£599

Yamaha Pro Mix 01
£1799
 Free Delivery

E-MU

ESI 32 Sampler with SCSI

Much better than the competition at just

£999



Iomega Zip/Jazz Drives

The perfect way to backup your data. Parallel or SCSI versions available

Only **£199.00**

Compatible with ESI32 and E64



Jazz Drive 1 Gb removable hard drive
£539.00

digidesign

SESSION

Session 8 PC Inc Cubase Audio
 Only **£2495.00**

Soundscape

Now in Stock



YAMAHA



QS 300 synth **£POA**
 Yamaha MU80 **£Cheap**
 Yamaha MU50 **£Even Cheaper**
 Yamaha NS10m **£319**

lexicon

Lexicon Reflex **£349**
 Lexicon Alex **£269**

FATAR Studio 610 **£199**
 Studio 610 Plus **£239**
 Studio 900 **£539**
 Studio 1176 **£699**
 Studio 1100 **£789**

Technox Superb analogue sounds with full midi control in an easy to use 1U rack **£POA**



Quasar - The mother of all analogue synth modules **£POA**

EMAGIC LOGIC AUDIO

FATAR ALL IN STOCK

SAW



AKG

ACOUSTICS



£3000
 Only **£299**

Microphones

| | |
|-------------------------|--------|
| AKG C3000 *Buy | £299 |
| AKG C1000 | £199 |
| Audio Technica ATM 4033 | £499 |
| Audio Technica ATM 4050 | £749 |
| Samsen S11 | £49.95 |
| Sennheiser | £Call |

Studio Outboard / Processors

| | |
|---|------------------------------------|
| Digitech Studio Quad | £POA |
| Digitech Studio Vocalist | £POA |
| Digitech Mini Vocalist | £POA |
| dbx 266 Compressor | £249 |
| dbx Spectral Enhancer | £279 |
| Event 20/20 monitors (kick'n') | £POA |
| Auris Quadverb 2 | * Buy £549!! |
| Alteis Midverb IV Excellent Value | £399!! |
| Alteis 3630 comp/lim | Industry standard £239 |
| Samson E62 EQ | 31 Band p/side bal ins & outs £279 |
| Samson E30 EQ | 15Band p/side bal ins & outs £209 |
| Alteis Matica 500 25dwp | £Call |
| Alteis Matica 900 45dwp | £Call |
| Samson Servo 150 | £219 |
| Samson Servo 240 | £279 |
| Samson Servo 500 | £379 |
| A1555 Monitor Ones plus Samson Servo 240 Deal Price | £Call |

(The absolute perfect match Ohm for Ohm. What for What)
 Call us for further details on other processors we handle.

MACKIE



Although many have tried to copy the outward appearance of the Mackie 8 buss no one has come close to achieving the legendary headroom and eq of these fantastic consoles. Call us to arrange a demonstration. These desks REALLY DO MAKE A DIFFERENCE.

Consoles



| | |
|----------|--------------|
| 1604 VLZ | £849 |
| 1402 VLZ | £499 |
| 1202 VLZ | £359 |
| SR 24.4 | £Best Prices |
| SR 32.4 | £Best Prices |
| 24:8:2 | CALL |
| 32:8:2 | CALL |

Call for details on automation systems for Mackie desks!

1604 1 Only @ £699

All stands, meter bridges etc In Stock!

Ultramix and Otto mixer Automation



Call for Details on how to automate your desk!!

SAMSON

Samson MPL 1502 **£269**



Samson MPL 2242 **£599**
 Samson MPL 1640 **POA**

Allen & Heath GS1 **£699**

Yamaha Pro Mix 01 **CALL**

FINANCE AVAILABLE SUBJECT TO STATUS

(0115) 955 2200

E&OE

Digidesign Session PC/AudioMedia III

► Pro Tools give it a comfortable familiarity (and *Session* was, of course, originally a Mac program — David Mellor reviewed it on that platform back in *SOS* December '95). The software is designed to run using the new Digidesign Audiomeia III PCI card, which, in addition to handling digital-to-analogue and analogue-to-digital conversion, also includes a 56000 DSP chip — and this chip removes much of the heavy digital processing load from the host PC (see the 'Trump Card' box elsewhere in this article for more on the Audiomeia III). With this setup, *Session* can provide up to eight tracks of audio recording, and similar editing and mix automation features to non-TDM versions of Pro Tools. In addition, because the PC is a true multitasking computer, you can use *Session* in sync with your regular sequencer; I had *Session* running alongside *Cubase Score*, using internally routed MTC to link the two, and everything ran perfectly.

To run *Session for Windows*, you need a Pentium PC running at a minimum clock speed of 75MHz with at least 8Mb of RAM — and ideally 16Mb or more. Plug and Play BIOS must be installed, and you'll need a 800x600 SVGA monitor and card with 256-colour resolution.

Installing both the Audiomeia III card and the *Session* software is quite straightforward, and Windows 95 guides you through the whole software installation process, prompting you to insert disks as required. No copy protection is used on this software, which makes installation and re-installation a less worrying experience. At present, *Session for Windows* is bundled with the Audiomeia III card, but very shortly, the card and software will be available separately. If you have a PC-based *Session 8* system, you might like to know that *Session* software will also be acting as

a replacement for the current *Session 8* PC front-end software in the near future.

THE SESSION INTERFACE

Session's interface is based on a relatively small number of windows, and before getting down to the interesting stuff, you need to visit the I/O Setup Window, which lets you select the sample rate (11.025, 22.050, 44.1kHz or 48kHz), internal or external digital sync, and which of the inputs and outputs are digital (again, see the 'Trump Card' box for more on this). There's also an analogue gain fader which provides gain adjustment when you're recording from a source with no output level controls.

The main screen for most users will be the Edit window, shown in Figure 1. Here the audio waveforms on the various tracks are displayed, along with a 'Region Bin' on the far right in which all the regions created by editing the original sound files are listed. At the top of the screen are all the familiar edit tools for selecting regions, moving regions and scrubbing the audio, as well as other tools for entering level and pan automation (see the 'Mixing and Automation' box) and one for switching Shuffle Mode on and off. With Shuffle Mode on, audio regions can be dragged to any position on the timeline, whereas if this mode is turned off, region starts can be made to snap to the end of previous regions — useful if you're working with song segments or drum loops. There's also a 'snap' option, which acts as a kind of quantise, insofar as any regions snap to the nearest line on the time grid. The grid may be set to work in either bars and beats (providing you enter the appropriate tempo information), locators, timecode, or the starts and ends of regions. The bars and beats way of

pros & cons

DIGIDESIGN SESSION PC/AUDIOMEDIA III BUNDLE £892

pros

- Good audio quality.
- Four simultaneous inputs and outputs (two of which are digital).
- Flexible software with good editing features and automation.
- Can be run alongside a MIDI sequencer using MTC.

cons

- Poor stereo file handling.
- No punching in or out on the fly.

summary

A good value digital audio package, with relatively few compromises when compared to a basic (non-TDM) Pro Tools system.

SOUND ON SOUND

TRUMP CARD: THE AUDIOMEDIA III

The Audiomeia III card is Digidesign's first PCI-format card, which means that it can be used in both PCs and the newer Power Macintoshes equipped with PCI slots — though of course different versions of software will be required to support the card for each platform. The card and driver software currently provide PCM playback support, and work with any compatible Windows applications, including *Cubase/Cubase Audio PC*, *Wavelab*, *Sound Forge*,

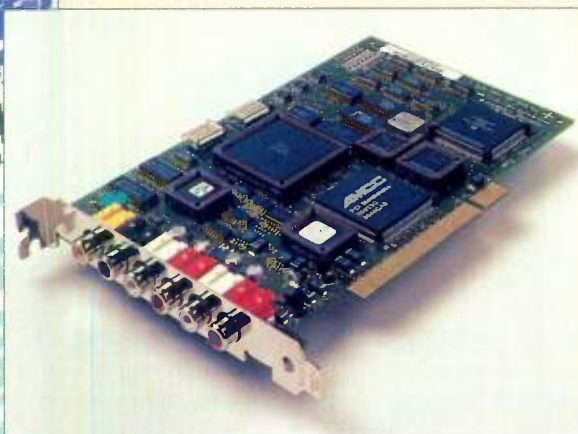
Cool Edit, *Cakewalk Pro Audio*. *Logic Audio* is expected to follow shortly.

On the PCI Mac front, it is envisioned that the card will shortly be usable from within third-party sequencing software including *Cubase/Cubase Audio*, *Logic Audio*, *Studio Vision Pro*, *Digital Performer*, and so on.

The card is surprisingly compact, featuring one S/PDIF digital input, (A to D has 24-bit, delta-sigma conversion with 128 times oversampling and 18-bit output), two analogue inputs, one S/PDIF digital output and two analogue audio outputs fed from 18-bit converters. All the I/Os are on phono connectors which protrude from the rear of the PC, and in proper PC tradition, none of them are actually labelled, so you have to refer to the manual! The digital ins and analogue ins can be used at the same time, giving the system true 4-in, 4-out capability, and the noise performance is a creditable 88dB weighted, providing a linearity roughly equivalent to 15 bits. If you select the analogue ins to feed tracks 1 and 2, they also feed tracks 5 and 6,

with the digital ins feeding the remaining tracks. If you're only using the analogue input, you have to go to the input selection page and switch inputs to get the analogue inputs feeding tracks 3,4 and 7,8. When used with *Session*, the outputs are configured as one main stereo mix and two aux sends; you can select whether the analogue or digital outputs carry the main mix, and the other outputs automatically take on the role of aux sends.

During mixdown, the inputs may then be used as aux returns or to mix in MIDI instruments, though you will either need an effects unit with a digital output or a spare DAT machine to use as an analogue to digital converter if you want to use the digital input with analogue equipment, such as a mixer. This being the case, I would like to see a version of the card available with four analogue ins and outs as well as the digital I/O, even if you could still only use a maximum of any four at once. It's all very well assuming that the end user is going to mix directly to DAT, but if you're running alongside a MIDI sequencer, you're probably going to have to go via a mixer, and there are few budget mixers with digital inputs. Perhaps now's the time for some enterprising company to market a small box full of competent but non-esoteric A/D and D/A converters at a realistic price...



SX-700

Studio Effects
Processor



LEVEL
PEAK
OUTPUT LEVEL

BOSS

SX-700 STUDIO EFFECTS

The new BOSS SX-700 Studio Effects Processor offers multiple effects capability, while delivering a studio quality signal-to-noise ratio.

This single rack space unit offers a full collection of 30 different effects like reverb, delay, chorus and flange, and the SX-700 provides access to as many as five of them simultaneously. Special new features include a four-voice intelligent pitch shifter and three-dimensional panning which uses Roland's RSS technology, and can be used with delay reverb. Parametric EQ, ducking delay, and tap tempo delay are other great additions.

The SX-700 operates in true stereo and realtime parameter control is possible via MIDI Control Change or an expression pedal. There are 256 patch locations and a selectable input level makes the SX-700 perfect for live sound reinforcement, as well as for studio work. Add an intuitive user interface, MIDI implementation and superior signal-to-noise ratio and you've got one great unit. The SX-700 Studio Effects Processor: setting a new standard for studio quality multi-effects.

For further information contact:
Roland (UK) Ltd, Atlantic Close, Swansea
Enterprise Park, Swansea, West
Glamorgan SA7 9FJ

Tel (01792) 702701

BOSS

SX-700 Data Stream...

1U Rack, 30 effects (5 simultaneously), Sampling frequency 44.1 kHz, A/D 18 bit conversion, D/A 18 bit conversion, Peak LED, 16 character display, 2 lines with backlit LCD 128 preset patches + 128 user. Easy to use editing features with parameter control from an external pedal (FS-5U, FS-5L, EV-5 and FV-300L - PCS-33) may be connected. Includes RSS effects.

Visit our web site for more information on Boss and Roland products: <http://www.rolandus.com>

Music Village

Specialists in modern music technology

10 High Road · Chadwell Heath · Nr. Romford · Essex

Tel · 0181 598 9506

- The very best deals on all Hi-Tech & Pro Audio products!
- Friendly, professional, knowledgeable staff!
- Fastest possible insured mail order facilities!
- Unsurpassed after sales service!
- Instant credit, Access, Visa, Amex, Switch!

Samplers

The very best deals on Akai, E-mu, Roland, Kurzweil, Ensoniq



Akai S3200XL with FREE EXTRA 16Mb RAM & new 540Mb MCD removable hard drive, plus free membership of DIGITAL and DANCE VILLAGE libraries

RRP £4349 **ONLY £3499**

Akai S3000XL EPLEASE RING

Akai S2000 EPLEASE RING

Akai CD3000i - A few left £1799

UNBEATABLE DEALS ON ALL SIMMS UPGRADES



Hard Disk Recording

Macintosh 7100 in stock

State of the art desktop music production from: Digidesign, Cubase Audio, Soundscape, Akai, Vestax, Yamaha, Roland, C-Lab Falcon, Mac, PC.



Mixing Desks

Yamaha ProMix 02

Ground-breaking Digital Mixer, call for stunning demo and amazing price

Plus Unbeatable deals on Soundtracs, Soundcraft, Behringer, Studiomaster, Mackie, Allen & Heath, Phonic, etc.



Music Village Pro Audio

High spec demonstration facilities including a state-of-the-art digital recording studio, jam packed with all the very best pro-audio products around - Drawmer - TLA - Digidesign - Akai - Lexicon - Tannoy - KRK - Mackie - Roland - Yamaha - Tascam - Alesis - Protech etc, etc. Some of our more recent customers include: British Airways (2 Protocols systems), Take That, East 17, Human League, Simply Red, Let Loose and Duran Duran. So give us a call now and join this esteemed list.



Fostex DMT8

NEW! Version 2 software

M.V. EXCLUSIVE! PACKAGE DEAL

DMT8 PLUS 2 really useful signal processors, the Yamaha EMP100 Multi-FX, PLUS the Phonic PCL3200 Dual Compressor / Limiter / Gate

Total RRP £2027 **our price only £1799**

Amazing Korg Offers!



Trinity, Prophecy, X3, X5, X5D, X5DR



05RW module Mega Deal

£399



Allen & Heath GS1 Scoop Purchase!!

A true 8 Bus mixer for under £900!

- 16-8-16 (total of 32 inputs)
- 3 band EQ with mid sweep
- 5 aux sends
- inserts on all channels
- phantom power
- MIDI routing and midi tape transport control (MMC)

Optional expander provides additional 8 bus plus 8 more mic inputs giving access to all 16 tape inputs and returns. £ P.O.A

HURRY - There are very limited quantities The GS1 was £999

MV price including free meter bridge just £639



Music Village Sound Reinforcement Centre

A dedicated soundproofed demonstration studio featuring the best in modern P.A. equipment - Soundcraft - Studiomaster - CAudio - JBL - Electrovoice - Animation - Soundtracs - Mackie - Carlsbro - Shure - AKG - Yamaha etc, etc.

Order with Confidence



Roland VS-880 8 track hard disk recorder

- 8 tracks, each with 8 virtual tracks, i.e. 64 tracks in total
- switchable data compression
- digital parametric 3-band EQ
- fully automated MIDI mixing
- SCSI (connect up to 7 drives)
- switchable sampling rate
- optional on-board digital fx

ALL drive options available including Zip, EZ, Jaz at the very best prices and up to 3 year warranty!

RRP £1499



Roland MC303 Groovebox

This is THE dance machine! 448 classic analogue sounds from TB303, Juno, Jupiter etc. Plus 12 drum kits featuring 1000 & TR808 sounds, preset dance patterns, arpeggiator, 28 note polyphonic digital fx, real-time phrase sequencer, 8-track sequencer

CALL TO RESERVE YOURS NOW!

RRP £559



Kawai K11

M.V. EXCLUSIVE! OVER 55% OFF

64 note velocity sensitive keyboard, aftertouch, 32 part multitimbral, 384 great sounds, 7 drumkits, digital reverb, computer interface

Was £899 **now only £399**



Keyboards and Modules

Call for the best deals on Roland, Yamaha, Korg, Kurzweil, Alesis, E-mu, Technics, Ensoniq, Kawai etc.

XP80 keyboard - Roland's stunning new workstation now in!
XP10 keyboard - great Roland sounds at an unbelievably low price

Roland M Series Modules

- MDC1 - Dance module
- MVS1 - Vintage module
- MSE1 - String ensemble module
- MOC1 - Orchestral module
- SCOREVL - 64 note polyphony

ALL AT UNBELIEVABLE PRICES!

NEW LOW PRICE

Yamaha CS1X

Control Synthesizer

480 quality voices, 11 drum kits, 128 exceptional preset/128 user performance programs, 6 real time analogue like control knobs, score controller, 32 note poly, 16 part multitimbral or one performance + 12, multi-fx (4 simultaneous), 20 pattern arpeggiator, host computer interface, audio input for optional OY22 or SU10 sampler

incredible value

RRP £599



Roland A90 in stock

Mother Keyboards

Roland, Kurzweil, Fatar, Samick, Evolution, from £49 to £1799

or.....pick up a package

e.g Evolution MK149 PLUS

Korg 05R/W module

(including sequencing software)

only £495



K-ROKs and the Awesome Tannoy System 215's on Demo

Monitors

Unbeatable Deals on monitors and monitoring systems by Yamaha, Alesis, Soundcraft, Tannoy, KRK, Phonic etc. **Example package:**

Pair of Absolute 2's PLUS Samson Servo 150 Amp **only £449**

Phone our mail order Hotline now 0181 598 9506

or fax us on 0181 599 7236

barnet, 230 High Street Tel · 0181 440 3440

cambridge, 86 Mill Road Tel · 01223 316091

education division Tel · 0181 598 9955



Fostex GT10

Ultra high quality 5 track cassette machine (separate sync track) with built-in MTC1 synchroniser, full MDI functionality and Dolby 'S' noise reduction

M.V EXCLUSIVE! now only **£429**
Was £999



Microphone Madness!

Shure SM58 **£99** Shure SM57 **£89**
AKG C1000 **£199** AKG C3000S **£279**
Octava MK219 **£219** Rode NT2 **£POA**
Audio Technica ATM 4033 plus 8441 cradle (was £695) Now **£499**
Audio Technica ATM 4050/CMS (was £995) Now **£799**
Guaranteed lowest prices on all Mics



Soundcraft Spirit Studio LC 24-8-2

M.V EXCLUSIVE!

- 24 input design for up to 66 inputs at mixdesk
- extremely quiet 120dB SN mic amps
- track out on every channel • rugged steel chassis
- 16 band EQ on every input, sweep mid and low bands, HF shelf, EQ boost and high pass filter
- 4 auxiliary sends • stereo effects return
- fully controllable submixer input
- stereo solo-bus place on every input channel
- extra 16 sweep channels and monitor groups saving recording • high quality connectors, pots and sliders
- individually switched phantom power on each channel

save over **£1000!** Was **£2421** only **£1399**

MV Portastudio Added Value Packages

From the company that originally conceived the P.P.D. (Portastudio Package Deal), comes the latest in a long line of superior bargain offers!

Not One but Two Added Value Packages for you to choose from...

Added Value Package One

Retail Value £49.00 inc VAT

- CD quality headphones
- Three Maxell 90 chrome tapes
- Head Demagnetiser
- Head Cleaning Kit

Added Value Package Two

Retail Value £100.00 inc VAT

- Phonic VM57 Mic & Desk
- CD quality headphones
- Three Maxell 90 chrome tapes
- CDs
- Head Cleaning Kit

| Portastudio | PLUS..... | Added Value Package One | OR | Added Value Package Two |
|--|---|---|----|--------------------------|
| Fostex XR3 The new budget standard | • 2 track stereo with 1/4" • 1/2" track • 220V/230V | • 2 track stereo with 1/4" • 1/2" track • 220V/230V | | £249 £279 |
| Fostex XR5 | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £335 £365 |
| Fostex XR7 | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £449 £479 |
| Tascam Porta 03 | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £199 £229 |
| Tascam Porta 07 | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £349 £379 |
| Tascam 424 MkII | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £469 £499 |
| Tascam 488 MkII 8 track portastudio | • 8 track stereo with 1/4" • 1/2" track • 220V/230V | • 8 track stereo with 1/4" • 1/2" track • 220V/230V | | £999 £1029 |
| Yamaha MT8X | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | • 4 track stereo with 1/4" • 1/2" track • 220V/230V | | £349 £379 |



Drawer

There is one point in the minds of many engineers and producers that when it comes to signal processing, Drawer is the first choice. Whether you're looking for guitar compression, EQ or noise reduction, Drawer has it all for you. Drawer is now producing with high specification and that classic Drawer sound. Come in for a full demo and see what makes Drawer the industry standard.



TLA

Give your recording the rich, warm glow of tube technology. The range of TLA processors offer the warmth and sparkle you're looking for. Quality construction and superb affordability. This only 1.5kg unit. Allow us to help the sound you've got a lot of ideas and see what makes Drawer the industry standard.

"NEW!" Panasonic SV-3800

- exceptional sonic quality • multiple digital interfaces
- shuttle search • single programme play plus function
- Panasonic reliability at a highly competitive price



DAT Machines

Sony, Tascam, Panasonic, Fostex. There's never been a better time to get into Digital Mastering with high performance machines at affordable prices.

from **£499**



Fostex D80 8 Track Hard Disk Recorder

- simultaneous 8 track recording and playback to removable caddy-held hard disk
- 3U high rack-mounting unit with removable front panel/slot • cut, copy, paste & move editing
- recording at 44.1kHz CD quality with no compression
- 5 VHS heads for unique project area
- save together 2 or 3 machines via on board MTC for 16 or 24 tracks
- analogue and digital I/O • all basic functions
- SCSI IDE drive supplied as standard gives 18 minutes of 8 track recording time (40 mins with 1.7gb drive)

RRP only **£1499**

M.V EXCLUSIVE! PACKAGE DEAL

D80 plus Soundcraft Spirit Studio LC 24-8-2 Desk only **£2699**

Digital Tape Multitracking



Alesis ADAT XT

The next generation of the ADAT format, stunning audio quality and new features

Tascam DA88 Fostex RD8

Call now for the very best deals on all these superb products!

M.V EXCLUSIVE! PACKAGE DEAL

ADAT XT plus Soundcraft Spirit Studio LC 24-8-2 Desk save a fortune only **£3799**

Second Hand

Key: Ch = Chadwell · B = Barnet C = Cambridge

Mixers

| Model | Price | Key |
|---|--------|-----|
| Allen & Heath Saber 32, 16 buss, 6 auxes, 4 band EQ (2 sweeps), fully modular, 56 inputs with EQ and muting on remix, c/w stand | £ 4995 | Ch |
| Allen & Heath System 8:24 | £ 1295 | Ch |
| Yamaha Promix 01 | £ 1275 | Ch |
| Seck 18:8:2 | £ 699 | Ch |
| Seck 12:8:2 | £ 599 | Ch |
| Seck 12:8:2 | £ 599 | C |
| Carlisbro Promix 12:2 | £ 349 | Ch |
| Carlisbro DMX16:2 | £ 449 | Ch |
| Studiomaster P7 16:8:2 | £ 1499 | Ch |
| Studiomaster Diamond Pro 16:2 | £ 499 | Ch |
| Alesis 16:22 | £ 399 | Ch |
| Sansui MX12 | £ 299 | Ch |
| Phonic 1202A | £ 349 | Ch |
| Soundcraft 12:2r | £ 349 | B |

Keyboards

| | | |
|---------------------------------|-------|----|
| Akai X7000 | £ 399 | Ch |
| Ensoniq Mirage | £ 299 | Ch |
| Ensoniq VFX SD | £ 449 | Ch |
| Ensoniq SD1 | £ 599 | Ch |
| Roland Vx100 | £ 899 | C |
| Roland JX1 | £ 199 | C |
| Roland FP8 Stage Piano | £ 899 | C |
| Roland XP10 | £ 449 | Ch |
| Roland JX10 | £ 599 | Ch |
| Roland JV35 | £ 599 | Ch |
| Roland JV50 | £ 699 | Ch |
| Emu Proteus MPS | £ 599 | B |
| Korg X3 | £ 699 | Ch |
| Korg T3 | £ 799 | Ch |
| Korg Poly 800 | £ 229 | Ch |
| Korg DW6000 polyphonic analogue | £ 299 | Ch |
| Elka MK55 | £ 299 | Ch |

Modules

| | | |
|------------------------------|-------|----|
| Yamaha TX802 | £ 499 | Ch |
| Korg 05R/W | £ 349 | Ch |
| Korg M3R | £ 399 | Ch |
| Gem S2R | £ 899 | Ch |
| Voce DM164 | £ 299 | Ch |
| Cheetah MS6 | £ 299 | Ch |
| Emu Proteus 1 | £ 349 | Ch |
| Emu Proteus FX | £ 399 | Ch |
| Roland MDC1 Dance Module | £ 349 | Ch |
| Roland MVS1 Vintage Module | £ 349 | Ch |
| Roland MT100 | £ 199 | Ch |
| Roland SC155 | £ 399 | C |
| Roland MKS70 | £ 599 | C |
| Roland SC55 | £ 349 | B |
| Roland JV880 | £ 399 | C |
| Roland D110 | £ 249 | Ch |
| Roland U220 | £ 349 | Ch |
| Roland U110 | £ 299 | Ch |
| Roland S330 sampler | £ 499 | Ch |
| Akai S01 | £ 449 | C |
| Akai S950 (+ memory upgrade) | £ 799 | Ch |
| Kurzweil Micro Piano | £ 299 | Ch |
| Elka EM22 duophonic analogue | £ 149 | Ch |

Drum Machines / Sequencers

| | | |
|---------------|-------|----|
| Brother MD140 | £ 99 | Ch |
| Roland R5 | £ 199 | Ch |
| Roland TR626 | £ 129 | C |
| Yamaha QY300 | £ 499 | Ch |
| Yamaha RY30 | £ 249 | Ch |
| Yamaha QX21 | £ 79 | Ch |

Recording

| | | |
|---|--------|----|
| Fostex DMT8 (8 track HDR) | £ 1199 | Ch |
| Fostex M80 (8 track Reel to Reel) | £ 599 | Ch |
| Fostex 4050 (Auto locator/SMPTE/remote) | £ 499 | Ch |
| Akai MG14D (12 track Reel to Reel) | £ 1299 | Ch |
| RTL Event | £ 199 | Ch |
| Fostex B16 (16 track Reel to Reel) | £ 1499 | Ch |
| Fostex R8 (8 track Reel to Reel) | £ 999 | Ch |
| Tascam 38 (8 track Reel to Reel) | £ 799 | Ch |
| Tascam Porta 1 | £ 199 | Ch |
| TOA MR8T (8 track cassette) | £ 599 | Ch |
| Acoustic Tiles (100 available) Half Price | £ 15 | Ch |
| Tascam 38 (inc nr) | £ 999 | C |
| Fostex A8 (8 track Reel to Reel) | £ 599 | C |
| Alesis Monitor 2 (pair) | £ 499 | Ch |
| Alesis Monitor 1 (pair) | £ 249 | Ch |



Chadwell Heath Tel · 0181 598 9506

Fax · 0181 599 7236

Barnet Tel · 0181 440 3440

Cambridge Tel · 01223 316091



Phonic MM122 Compact Mixer

- 4 mono channels (balanced XLRs and 1/4" jacks)
- 4 stereo channels • top quality slide faders
- pan control on all channels except 9-10 & 11-12
- high & low shelving EQ • 15dB • phantom power
- 4 aux sends - 1 pre fade 1 post (convertible)
- 3 stereo aux returns • rugged steel construction
- 12 input assignable inserts on channels 1, 2 and post
- 12 track outputs

Unbeatable value at just **£249**



Power Amps

| Model | Power | RRP | Special |
|-----------------------|-------------|-------|---------|
| Omniphonics Footprint | 150w + 75w | £ 399 | £ 279 |
| Samson Servo 150 | 150w + 75w | £ 225 | £ POA |
| Samson Servo 240 | 240w + 120w | £ 260 | £ POA |
| Samson Servo 500 | 250w + 250w | £ 395 | £ POA |
| Alesis RA100 | 100w + 100w | £ 380 | £ 290 |
| Yamaha P1500 | 150w + 150w | £ 440 | £ POA |
| Yamaha P2500 | 250w + 250w | £ 580 | £ POA |
| Yamaha P3500 | 350w + 350w | £ 690 | £ POA |

The legendary Crown Power Amplifiers - Now in stock, you won't believe our prices!

C Audio - Very special deals on these superb British made Amps.

Sample package deal:
Footprint & Soundcraft Absolute 2's - Only **£499**

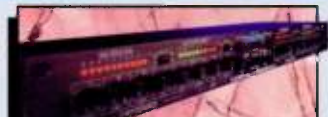


Novation DrumStation

- Genuine TR909 and TR808 drum sounds with original sound casing • extensive MIDI spec
- up to 12 note polyphony • front cut off
- rack mode off exceptions • 4 assign banks
- variable distortion for each drum sound
- stereo left/right & 4 individual outputs
- 10 drum kit programmes
- On sync output to control analogue machines

PLUS - BassStation Keyboards and Racks always in stock at the very best prices!

DrumStation RRP only **£449**



Phonic PCL3200

Dual Compressor/Limiter/Gate

- Hard Knee or Soft Knee processing modes
- Stereo Link/Dual-Link Switch
- Bypass/Com/Cat
- Side Chain Jack
- On-Board Gates with Independent Threshold and Rate Control
- Balanced or Unbalanced Operation
- Full Input/Output and Gain Reduction Metering

Unbeatable Value **£179**



Philips DCC 170/730

Highly affordable digital mastering in portable or hi-fi component formats. Digital playback, mic/line inputs. Free remote with DCC730.

Including **£35** worth of FREE tapes

Unbelievable value at **£249**



3 FOR 2

Phonic UM97's

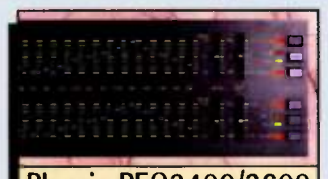
High quality dynamic Mic (SM58 copy) **£45** each or **3 for just £99**



Phonic BKX8800

The BKX8800 offers all the facilities you would expect from a Minimizer of this calibre - plus a few welcome surprises including a MIDI splitter with activity indicator, input peak indication on each channel and it's own rack ears.

Only **£169**



Phonic PEQ3400/3600

2x15 Band Stereo/2x31 Band Stereo Graphic EQ's. All of the PEQ Series are built to professional standards and are endowed with many thoughtful features which include centre indented sliders, LED indicators for major functions, a choice of balanced and unbalanced operation, and adjustable equalisation range.

Only **£149** **£199**

Outstanding Outboard

- Digitech TSR12 **£299**
- Digitech Vocalist II **£399**
- Digitech StudioQuad **£POA**
- SPL Stereo Vitaliser **£349**



Behringer Price Crash

- Composer - Comp/Exp/Peak Limiter
- Dualflex - Dual Enhancer
- Ultraflex 2 - Enhancer
- Autoquad - Quad Expander/Gate
- Edison - Stereo Image Processor
- Ultra Curve - 64bit Dual D.S.P
- Multicom - Quad Compressor/Limiter
- Multigate - Quad Gate
- Intelligate - Gate/Ducker

CALL NOW!!!



Zoom 1202

- 12 preset tracks • 44.1 recording rate
- 44.1 stereo output • 44.1 stereo input
- 2 band EQ • mix stereo

Grab one quickly! only **£149**



DOD R512

- 480 presets (2 stereo compressor with 15:1 ratio)
- 44.1 kHz sampling rate
- 44.1 kHz stereo output
- 44.1 kHz stereo input
- 12-bit to 20-bit frequency response
- 100dB gain switch • 4 stereo channels

Brilliant Spec - Unbelievable price only **£179**



Art Tube MP

Professional Tube Mic Pre Amp

- 6000V2 warm tube sound • 24V internal
- 48V phantom power (switchable)
- XLR balanced input and output plus jack
- separate input and output level control
- 10Hz to 20kHz frequency response
- 10 dB gain switch • 4 stereo channels

Ideal for recording vocals into the digital domain only **£149**



MACKIE

Special Clearance Prices on the 1604 and 1202.

Unbeatable deals on SR Series, 8 Bus Consoles and New 12, 14 & 16 Channel VLZ Models



Evolution Music Creator Pro

Full size MIDI keyboard PLUS FREE Sequencing Software

- 40 Full Size Keys (MIDI enabled)
- Pitch Bend Wheel • Mod/Latch Wheel • Harmonic
- On/Off Switch • Program and Bank Change
- 6 Program Memories • 2 Dual LED Displays
- Includes MIDI Connector
- Includes Connecting Cable for Soundboard
- Standard System Power Switch

Only **£119**



Soundcraft Folio SX

NEW Multipurpose DAT quality mixer

- 12 mono inputs • 4 stereo inputs
- 4 bus • 3 aux sends
- 8 direct outs (switchable pre and post)
- 3 band EQ with sweep mid
- 100mm faders • rack mounting optional

Outstanding Value at just **£599**



Soundcraft Folio Rac Pac

Superb 4 Bus Multi-purpose Mixer

- 14 input channels up to 8th mode of mixer
- stereo inputs with 60mm faders and 2 band EQ
- 4 bus group section and mix outputs
- superior low noise mic inputs • 48V phantom power
- 3 band EQ with sweep mid & high pass filter on mono inputs • 4 aux sends • total phantom power
- 4 distributed 100mm faders (mono returns & 2 stereo)
- 12 outputs • stereo aux inputs • 2 track on every input channel • 2 track face returnable to the deck outside of each mono channel

Was **£899** Only **£695**

Digidesign Session PC/AudioMedia III

▶ working is useful if you're working with regions that are whole numbers or multiples of musical bars, but there is no way of importing tempo data from your sequencer. Considering the ease with which *Session* runs alongside a sequencer, this would have been a valuable addition. As it is, it's often easier to use an audio version of your sequencer, so that both MIDI and audio can be viewed against the same tempo reference.

To the left of the screen are the Record Ready, Mute, Solo and Automation buttons, plus a floating transport palette (also shown in Figure 1), which carries the transport controls, the time indicator and 10 numbered buttons which function as autolocate points. These are arranged as 10 banks, giving 100 points in all. There are also icons representing the three main operating screens, so that you can go directly to them without having to enter a keyboard command. Multiple windows can be opened simultaneously, but you have to be careful where you put them, unless you have a very large monitor. In common with other PC software I have seen, I felt the windows were rather larger and chunkier than strictly necessary, giving the interface a sort of 'Fisher Price' Pro Tools look, but this probably has more to do with Windows 95 than Digidesign. As it is, even with a 17-inch monitor, you're continually dragging windows around so that you can see the appropriate bit of each, although in most situations, you can manage with just one window open at a time, plus the transport controls.

Audio is recorded as .WAV files, a format with which most PC users will be familiar, and if you have a CD-ROM drive, you can import .WAV samples or drum loops to use in your compositions, though these are converted into dual mono files on loading. For multimedia users, *Session* can also import .AVI format movies, allowing you to create sound tracks as you watch. Unless you have a very fast Pentium machine, the movie window should be kept as small as possible, so as to minimise the drain on CPU resources.

When you make a recording, it appears both in the waveform window and in the Region Bin as a mono sound file; stereo recordings or imported files materialise as two mono sound files, so it's up to the user not to let the two halves get separated. For me, this way of handling (or not handling) stereo audio files is perhaps the greatest weakness of the system.

Using the Selector tool, regions of the file can be defined and added to the Region bin, and because editing is non-destructive, you can use the same region as many times as you like simply by dragging it from the Region Bin into the desired track. There's also a very powerful crossfade editor, where you can define the time and shape of the crossfades between regions; the fade-in and fade-out curves may be edited independently. Regions may be moved using the Grabber tool, and you can play a recording back from any point to check what you've done. Regions may also be copied and dragged

from track to track, but there's no fancy DSP processing such as reversing, normalising or virtual effects. It's also impossible to do punch-in recording on the fly, though it's very easy to set up auto punch-in/out points, which may be dragged using the mouse if their position needs fine-tuning.

As with Pro Tools, you can overlap regions, but if you do this, only the one on top will be heard during playback. There's also a function called Playlist, which is actually a type of virtual track system, allowing you to create alternate versions or arrangements for tracks. Only the currently selected Playlist appears in the track window, but because Playlist data is really just a list of edit points based on your originally recorded files (not the audio data itself), you can save a number of alternative Playlists without taking up

“Despite the budget nature of *Session*, it is every bit as flexible as early Pro Tools systems, and includes some features that even Pro Tools doesn't have.”

any significant amount of disk space. A useful trick is that if you run out of tracks for bouncing, you can close down a Playlist and use its track as a bounce destination, then move the result back to one of the original source tracks before restoring the original Playlist.

Arrow buttons let you zoom in and out of the waveform display in both horizontal and vertical directions, and there's a nice touch here — there are four Zoom Presets activated by dedicated buttons, which means you can jump from one scale to another without having to press the Zoom buttons dozens of times.

When it comes to editing, most of this involves changing the lengths of regions or moving regions about, and one very practical feature is supported by this software, which my old Pro Tools II doesn't have; you can now select all the regions to the right or to the left of the currently selected region ▶



Digidesign Session PC/AudioMedia III

► in one go rather than having to go around 'rubber banding' them or selecting them individually. Also, like Pro Tools, once you've placed a region where you want it, you can lock it to prevent it being moved accidentally.

If you run out of tracks during recording, you can bounce tracks, just as you would on a tape machine, and if you need to archive a session so you can come back to it later, you can dump the whole project to DAT via the digital output port on the Audiomedia III card. Backing up multitrack recordings in this way is always slow, but at least it's cheap!

USABILITY

Despite the budget nature of *Session*, it is every bit as flexible as early Pro Tools systems, and includes some features that even Pro Tools doesn't have. *Session* has a decent scrolling display, colourful (if

sure each gets the same treatment. Similarly, automation data is related to absolute time, not to the regions it controls, so if someone asks you to open up a gap in some dialogue after you've finished doing the automation, you have to select and move all the automation points by the same amount. Considering the effort that's gone into creating a 'tape and tracks' analogy, this is far less than ideal.

When you record automation data from the Mixer page fader, the data shows up as new break points on the Edit page automation graph, which is fine, but if you go back over a piece of automation, it doesn't seem to replace the original, but rather merges with it. To get rid of automation data, you have to select it and then bin it. A replace mode button on the automation page might have been neater. Even so, the automation facilities provided are pretty

MIXING & AUTOMATION

If you're one of those people who prefer to mix using faders rather than mice, and you have a MIDI interface on your PC, you can plug in a hardware MIDI fader unit (such as those made by Peavey, JL Cooper, or Penny and Giles) to provide a real control surface when

it comes to a *Session* mixdown. If you want to automate a mix controlled by one of these hardware devices, you need a MIDI sequencer into which to record the appropriate controller data. To make setting up such hardware

interfaces easier, a useful Learn facility is included, which necessitates waggling the on-screen and real faders so that they can recognise each other.

Finished *Session* tracks can be automated both for level and pan, and for those who like the graphical approach, this can be done from the Edit

window by selecting Automation and then choosing level or pan. This system works exactly like Pro Tools, where you create break points along a line, then drag them about, just as you would with the envelope in a synth editing package. Automation points may be moved or erased, and you can also move or erase several at once by marking them with the selector tool, and then performing the appropriate action on any one of them.

The other way to automate the mix is to go to the Mix page (shown in this box), and record the level and pan fader movements, in real time. This page is set up very much like a typical console automation package, and includes the ability to subgroup up to four sets of faders. A small trash can icon may be dragged to grouped faders to ungroup them.

It's also worth mentioning that the two aux sends and the master faders may be automated via MIDI using your sequencer. In fact, you can do all the automation from your sequencer if you want to.



Session's Mix window.

a little PC game-like) graphics and a very professional range of editing and crossfading tools. The automation works reliably (again, see the 'Mixing & Automation' box), and, as already mentioned, I got *Session* running in sync with *Cubase Score* without any problems.

If there are flaws, these result from *Session's* Pro Tools ancestry. Even Pro Tools relies on a bodged track linking system to handle stereo files which have been split into two mono files, but *Session* doesn't even do that — you just have to handle the two channels very carefully and make

impressive, even to the extent of having proper fader grouping, and on the whole, the automation is easy to use.

I don't know if it's because I'm mainly a Mac user, but some of the tools in *Session* feel rather less positive than they do in Pro Tools; you have to line them up with the target object quite carefully, and the fact that the cursor is often an icon (such as a trash can) rather than a neat pointer makes this tricky to do precisely. It doesn't take too much getting used to, but at first it's like trying to drive a car with a particularly quirky gear shift.

On the sound front, the Audiomedia III card was impressive, with none of the digital background chatter I'd half expected to find on the analogue outs. If you turn up the gain sufficiently, you will hear a small amount of noise,

but it's good, honest analogue hiss, not whistles and whines. I'd certainly have no qualms about undertaking serious audio projects using this hardware.

IN CONCLUSION

Viewed as the poor person's Pro Tools, *Session* offers virtually all the key facilities of non-TDM Pro Tools systems in a similar operating environment — and some features are actually better than in the current version of Pro Tools. The package is very easy to use, well documented, and there are numerous keyboard shortcuts for commonly-used functions. What's more, these are usually sensible to the point that you can guess at them and come up with the right combination.

I was particularly impressed by the ease with which *Session* could run alongside *Cubase* to provide audio capability, and, as commented above, the analogue output sound quality was rather better than I had anticipated for a sound card residing in such close proximity to noisy data buses.

The trouble with software reviews is that you can never paint the whole picture — the *Session* User's Guide runs to over 350 pages, and even that's keeping things concise. Having said that, you can learn the salient features of *Session* in far less time than it takes to read the manual if you're in any way familiar with digital audio recording software or even with MIDI sequencers. As a practical tool for recording music, the *Session* package is restricted only by the lack of stereo file handling and a real-time punch in/out system. Musicians working alone are used to having a footswitch to punch in with, but with *Session* you have to set up auto punch in and out points every time, which could prove to be a creative hindrance. To be fair, you only get real-time punch-in on expensive computer-based hard disk systems, because it's not very easy to implement digitally (especially if you want to punch in on multiple tracks at the same time) — but that won't prevent those of us who were brought up on tape from missing it.

As for other applications, *Session* is useful for editing existing stereo material (though not nearly so powerful as *Sound Designer* in this respect), and it can also be used to compile music, dialogue and sound effects for use in multimedia productions, soundtracks or radio programmes. Being realistic, anyone using Audiomediam III will probably have other software such as Steinberg's *WaveLab* or *Sound Forge* for handling specialised editing tasks, and those using 'Audio + MIDI' sequencers will tend to use them wherever possible, rather than running two programmes side by side.

Though imperfect in some areas, the *Session* for Windows/Audiomediam III bundle offers extremely good value and has the potential for high-quality, multitrack audio recording, plus the ability to back up to DAT. There's even a Tascam DA30 setting to get around the problems that sometimes arise when these Tascam DAT machines are used with Digidesign hardware — not that this was Tascam's fault! With mainstream Digidesign systems becoming so expensive, this package could be just what the company needs to put it back on the 'real world' map.

SO

E *Session* for Windows/Audiomediam III bundle £891.83;
Audiomediam III card only £703.83.

Prices include VAT.

A Digidesign UK, Avid Technology Ltd,
Westside Complex, Pinewood Studios, Iver Heath,
Pinewood, Bucks SL0 0NH.

T 01753 653322.

F 01753 654999.

Info

CC Music
MAIL ORDER

YOUR FIRST CHOICE FOR HI-TECH & PRO-AUDIO

YAMAHA

| | |
|--|---------|
| Promix 1 Mixer - Special Deals..... | £Call |
| 5Y85 - Last few going fast..... | £899.00 |
| 5Y35 - Megadeal! Ideal controller Keyboard..... | £379.00 |
| SU 10 - Brilliant new portable Sampler..... | £Best! |
| NEW CSX 1x - Brand New Dance Keyboard Now In Stock..... | £599.00 |
| QS 300 Sequencer - Dance workstation..... | £Phone |
| NEW MDF 4-Mini Disc, Mini Studio, Mini Price!..... | £Call |
| QY8 - AWM, 8-track, 28 note polyphony..... | £209.00 |
| RY20 Rhythm Machine - 300 Sounds, 900 patterns..... | £Crazy |
| RY8 Rhythm Machine - 128 sounds, 250 patterns..... | £199.00 |

KORG

| | |
|---|----------|
| X5 - 32 Voice synth, GM, PC Interface..... | £649.00 |
| X5D - 64 Voice synth, GM, PC Interface..... | £739.00 |
| X5 DR - 64 voice, 16 part multitimbral, PC Interface..... | £579.00 |
| X3 - 32 voice, GM, Sequencer, Disk Drive..... | £919.00 |
| Prophecy - Analog, FM, Physical Modelling, Megal..... | £Bananas |
| Trinity! Plus - The Business! the Workstation reinvented..... | £Call |

ROLAND

| | |
|---|-------------------|
| NEW V55 880 - Hard Disk Multitracker w/Mixer From..... | £1499.00 |
| XP10 - What a Bargain..... | £550.00 |
| XP50/XP80 - Expandable workstation, Seq, 64 voice..... | £Phone |
| JV 1080 - Sound Module..... | £Call |
| NEW A90ex - Expandable Master Keyboard..... | £Call |
| M5E1 String, MV51 Vintage, MDC1 Dance, MOC1 Orchestra..... | £449.00 |
| S760 Sampler - Superb Packages Available..... | £Call for details |
| NEW MC-303-The box everybody's talkin' about!..... | £565.00 |

ALESIS

| | |
|---|----------|
| ADAT XT - 8 Track Digital Multitrack..... | £2???.00 |
| QS6 - New Budget Quadrasynth..... | £599.00 |
| S4 - Quadrasynth in a box!..... | £Call |
| Quadraverb 2 - FX Unit..... | £Call |
| Midiverb 4 - FX Unit..... | £Call |
| Microverb 4 - FX Unit..... | £Call |
| DM5- Drum Module Rack..... | £Call |

FOSTEX

| | |
|--|----------|
| NEW D80 - 19" Rack 8 track HD Recorder, Expandable..... | £1499.00 |
| DMT 8 - New V2, 8 track HD Digital Multitracker..... | £Call |
| R8 Multitrack - 2 Only..... | £799.00 |
| XR 3, XR18, XR5, XR7, D5, D10 also in stock..... | £Call |

TASCAM

| | |
|-----------------------------------|---------|
| DA 20 DAT Recorder -..... | £Call |
| NEW 424 MkII..... | £Call |
| Porta 03 - FREE Mic and Tape..... | £199.00 |

MACKIE

| | |
|--|-----------------|
| 1604 - Crazy deal..... | £799.00 |
| 1402 VLZ -..... | £Call |
| Full range of 8 Bus Mixers in stock..... | Call for Prices |

NOVATION

| | |
|---|---------|
| Base Station - 19" Rack, Meaty, beefy..... | £399.00 |
| NEW Drumstation Rack- 808 and 909 Drum Sounds..... | £449.00 |

EMU

| | |
|---|-------|
| ORBIT A Must for budding Re-mixers!!..... | £Call |
| Coming Soon The Launch Pad..... | £Call |

SAMSON

| | |
|--|---------|
| NEW MPL 2242 MIXER -..... | £479.00 |
| MixPad - 9 into 2 Mixer Ultra compact..... | £199.00 |

LEXICON

| | |
|--|-------|
| Alex - Quality Reverb on a Budget..... | £Call |
| Reflex- Superb Sound Quality..... | £Call |

SOUNDCARDS

| | |
|---|---------|
| Turtle Beach Range inc. Tahiti, Tropez and the New TBS 2000 Simultaneous Record and Playback with your PC from only..... | £169.00 |
|---|---------|

SOFTWARE

| | |
|---|---------|
| NEW Wavelab - 32 bit sample editor, superb..... | £Call |
| NEW Cubasis Audio - 64 MIDI Tracks PLUS 8 Audio Tracks..... | £249.00 |
| NEW Cubase 3.0-(colour)Now with Audio..... | £329.00 |
| Cubase Score 3.0 - MIDI Seq./ Score Editing AND Audio..... | £399.00 |
| Cubase Audio 3.0 - MIDI Seq./Audio recording..... | £699.00 |
| Emagic Logic/ Logic Audio - MIDI Sequencing..... | £Call |
| NEW V4.1 Cakewalk Pro Audio - MIDI and Digital Audio Software..... | £329.00 |
| SAW Plus - Brilliant! 32 Audio tracks, Multiple outs..... | £699.00 |

Call our Software specialists for best Prices on PC Systems,
Hard Drives, Memory, Removable media, Etc.

Friendly, Helpful service!
Lowest prices!
Fast delivery!



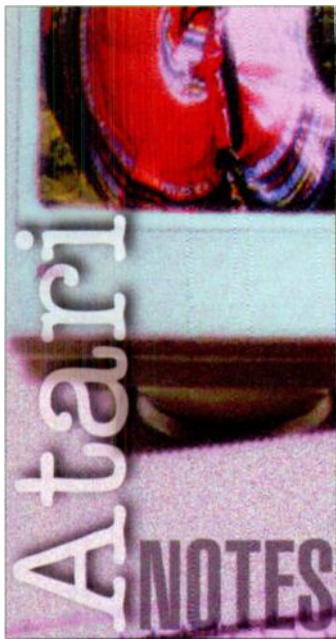
0% Finance Available
on Selected Items
Written details available on demand. Offer subject to status.

MAIL ORDER HOTLINE- Ask for Andy!!!

FREEPHONE - 0800 627 627

33 Otago Street, Glasgow. G12 8JJ E-Mail: cc uk@aol.com

Phone: 0141-339 0566/ 7766 Fax: 0141-357 2703



The C-Lab Falcon MkX has flown through its CE tests and finally landed in the UK. OFIR GAL checks the spec and assesses the new machine's chances of taking off.

Yes, it's late, but it's here at last. After months of delays, the repackaged, enhanced and revamped C-Lab Falcon MkX is finally sitting before me — disguised in a dark 440 x 290 x 60mm metal case. It was actually ready for release before Christmas, but was delayed by Eurocrats and the requirement for CE approval.

C-Lab took over the manufacture of the Falcon from Atari in 1995, with the intention of marketing the machine as a music tool, something Atari failed to do properly. With built-in MIDI ports, a DSP chip, and the lean and mean TOS, *Cubase Audio* and a range of hardware add-ons, it was a ways a mystery why Atari could not capitalise on this niche market. C-Lab have managed to do just that with the Falcon MkII.

THE FALCON MKX

Building on the success of the MkII, the MkX is aimed squarely at musicians, housed in a slick and robust metal case you could take on the road. As it's designed around the original Atari motherboard, the case has to allow for the various ports, especially the cartridge port, which cannot be relocated easily. This prevents the case from being a true rackmount unit, but in all other respects, the MkX is built like a musician's tool rather than an office machine. All the ports are labelled clearly on the top of



The C-Lab Falcon MkX builds on the success of the Falcon as a complete solution for the modern musician. The new case design makes it easier to upgrade and expand than its predecessors.

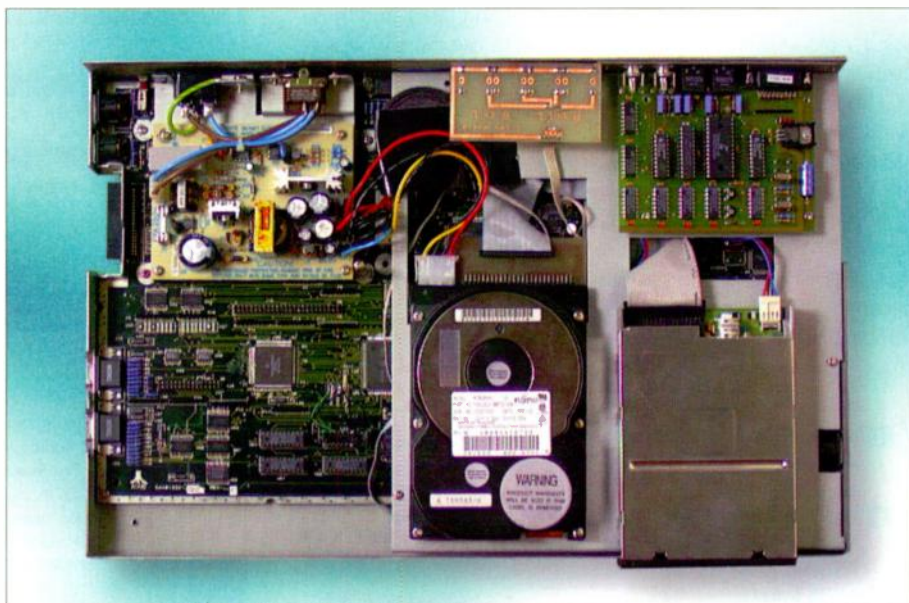
the case, which can also house several optional add-ons. The floppy drive is located at the front, and to its left are two bays for additional drives.

The basic spec is more or less the same as the original Falcon, which is somewhat disappointing considering that almost four years have gone by since Atari launched the machine. Based around the Motorola 68030 CPU, clocked at 16MHz, the Falcon's true power, from a musician's point of view, comes from its sound system and DSP. The original Atari sound system featured an integrated A/D and D/A converter capable of eight 16-bit audio channels with sampling rates up to 50kHz. The C-Lab models have improved audio circuitry with similar capabilities. The DSP allows the machine to perform real-time audio

mixing, and effects such as EQ and reverb, and has remained unchanged in the C-Lab machine. The original Falcon performance was hampered by quirky SCSI implementation, which meant that hard disk access was not 100% reliable when put under strain. Applications like *Cubase Audio* suffered from various crashes and hangs due to disk access problems, and C-Lab addressed these by modifying the SCSI board. Users of the previous C-Lab models have enjoyed better reliability when working with large amounts of digital audio.

THE SAME, BUT DIFFERENT

Essentially, the new model is the same machine as the MkII, in an improved case that allows for





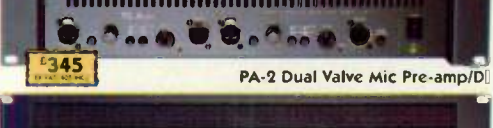

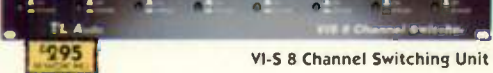


In addition to the internal SCSI drive, you can install a removable drive, or even a CD recorder. The internal S/PDIF interface can be seen at the top left of the picture.

INDIGO

-  £599
2001 4 Channel Valve Mic Pre Amp
-  £599
2011 2 Channel 4 band Valve EQ
-  £599
2012 2 Channel Parametric Valve EQ
-  £599
2021 2 Channel Valve Compressor
-  £599
2031 2 Channel Valve Overdrive Unit
-  £599
2051 Mono Valve Voice Processor

CLASSIC

-  £699
EQ-1 Dual Valve EQ
-  £1295
EQ-2 Stereo Parametric Valve EQ
-  £995
C-1 Dual Valve Compressor
-  £895
PA-1 Dual Pentode Valve Pre-amp
-  £345
PA-2 Dual Valve Mic Pre-amp/DI
-  £395
VI-1 8 Channel Valve Interface
-  £295
VI-S 8 Channel Switching Unit

TWO SERIES ONE PHILOSOPHY

Choose a valve signal processor from TL Audio and you're assured outstanding quality and the acclaimed warmth which only TL Audio Valve Technology can deliver.

The question is, which series to pick - Indigo or Classic?

Not an easy choice, as they both offer a combination of superb design, quality manufacture and unique sound.

It's more a question of application.

The Indigo range offers intuitive, easy-to-use valve processing at an incredibly affordable price, whilst the Classic products feature superb on-board mic pre amps and unparalleled control of all signal parameters.

The choice is yours!

SASCOM MARKETING GROUP

Canada & USA:
Sascom Marketing Group
Tel: +1 905 - 469 8080
Fax: +1 905 - 469 1129
WEB: www.sascom.com



Alex Marcou - Abbey Road Studios. Home recording engineer. "The Indigo 2011 2 Channel 4 band Valve EQ... rounded analogue... in a job to listen to. The control that the EQs, Pre Amps & Compressors give is exceptional."



Andy Jackson - Pink Floyd. "I was vocal on the 'Division Bell' album and went straight through the EQ-1. I certainly prefer the EQ-1 to other valve equalisers for vocals. The new EQ-2 is probably the best all round EQ I've ever used."



Chris Porter - Producer. "Take that... I bought one of the first EQ-1s and I've enjoyed using it immensely. It gives a unique quality to the vocals in particular. Take Travis' 'Back For Good' as a typical example of the EQ-1 adding depth and presence to a vocal track."

Tom Lord-Alge - (Just Grammy Award Winning Engineer) "The Indigo 2011 EQ has given me the ability to EQ with clarity, better than just tone. I find it to be very musical. (My preferred sound)... have come down. I push in the 2011 and it allows me to add depth and clarity."

Stephen Crook - (Producer, Artist, Engineer) "Newwood (AKA) Arnie Loggins, Jonny Williams... The Indigo 2011 EQ and 2011 Compressor are exceptional - both responsive and flexible. I can stop or be subtle. These are sound or just... I love it. These are real tools for the level of music production."

For UK sales: Tony Larking Professional Sales Ltd.
Letchworth, SG6 - 1AN (UK)
Tel: +44 (0)1462 490600 Fax: +44 (0)1462 490700

TLAudio

► easier expansion and upgrades. Among the possibilities are RAM upgrades and high-capacity removable drives. Even more interesting is the ability to install a SoundPool S/PDIF (FDI-compatible) or ADAT interface inside the machine. The various additional I/O ports are accessible from the back of the case, neatly aligned with the audio connectors. All

then write it directly onto a CD. Better still, with the aid of programs like *Audio Master* from SoundPool, you can do the post-production work and burn a final CD that can be used to produce a glass master — without the files ever leaving your Falcon. See the box for full pricing details of the new machine and peripherals.



The optional S/PDIF interface is installed internally, with its ports accessible from the back of the machine. Note also the new quarter-inch jack sockets that replace the flimsy stereo mini-jacks of previous models.

other ports appear as they did on the original Atari Falcon, with the exception of an RGB/TV output.

Purchasers of the MkX can choose between two basic models: one uses a Mega ST or Mega STE keyboard; the other is called the MkXAT and can be used with a PC keyboard. Whichever you buy, it comes with the standard SCSI port, so you can connect any external SCSI drive to it. The basic unit ships with 4Mb of memory and no hard drive. An optional 1Gb SCSI hard disk, including the required additional internal hardware, costs £399. C-Lab are so confident about their modified SCSI board that they promise smooth operation with *Cubase Audio*, and will replace your Falcon if it doesn't work properly with that program. In case you're wondering, the IDE interface is still there, so there's nothing to stop you from adding an IDE-based internal drive as well.

Like its predecessor, the MkX has modified and improved sound hardware, but it now sports two pairs of proper quarter-inch jacks, replacing the old mini-jacks. Unfortunately, this also means that C-Lab had to remove the headphone socket. There is one more omission from the original Falcon spec: C-Lab have removed the composite video output, so you cannot connect an RGB monitor or TV any longer.

The C-Lab 'complete musician's solution' concept can be enhanced with a Yamaha CD recorder. The bundled software allows you to compile *Cubase* AIF files into a track list and

As part of their commitment to supporting Falcon owners, C-Lab have signed a deal with System Solutions (0181 693 3355) who will provide warranty repairs and upgrades.

GRIBNIF SOFTWARE AND TITAN DESIGNS

The closure of Compo UK, distributor of Gribnif Software, has left popular programs like *NeoDesk* and *Geneva* without a UK home. Titan Designs, a company known for products such as *Apex* and *Expose*, has taken over distribution of all Gribnif products, as well as some old favourites and a couple of new entries. Although the products are not music- or MIDI-specific they can help make your Atari more productive.

Nemesis is a new Falcon accelerator set for release in June. The final spec has not been confirmed yet, but it is likely that the CPU will be clocked at 30MHz and the DSP and FPU at 60MHz. Titan Designs are currently testing the product's reliability with time-critical applications, including *Cubase Audio*. The accelerator will also be available for C-Lab Falcon models. The following Gribnif products will be offered by Titan; prices include VAT and carriage:

- *Geneva v1.04* (£59.95): fast, full-featured multitasking OS for any Atari ST/TT/Falcon.
- *Geneva Utilities Disk* (£12.95).
- *NeoDesk 4* (£59.95): the latest incarnation of the popular replacement Atari Desktop.
- *Neodesk 4 Icons* (£7.95).
- *Neodesk CLI v2.1* (£24.95): Command Line Interface for use with *Neodesk*.
- *Geneva/Neodesk 4 bundle* (£99).
- *Steno v2.12* (£24.95): text editor that operates as a desk accessory.
- *Stalker v3.05* (£39.95): communications program with background Z-modem.
- *Convector Pro v1.00J* (£79): fast and easy to use auto-tracing program.
- *Arabesque Pro v2.15* (£119): vector and bitmap editing/creation program for the Atari range.

For more information, contact Titan Designs on 0121 693 6669, or email them at 100345.2350@compuserve.com.

BITS AND BOPS

System Solutions have just announced *BitBopper*, a new Falcon-based product. Utilising the Falcon's hardware to its fullest, *BitBopper* takes an audio input and produces a video light show suitable for club dancefloors. The program can generate psychedelic video imagery, employing strobe effects and Kaleidoscopic patterns, and the software is content-sensitive, so the imagery can work with both hard-core techno sounds or with calmer ambient music. The screen objects, called 'videogobos', are always in sync with the beat. The software can also display text and can be set to respond to MIDI input, so that images can be displayed at any time using MIDI events, or even controlled directly from a MIDI keyboard.

BitBopper requires a Falcon with an RGB or TV output (which excludes the new MkX, sadly!). System Solutions can configure a system according to requirements, from single to multi-user, as well as multiple screen arrangements. Contact them on 0181 693 3355 for more details, or visit the new System Solutions web site at <http://www.ssolutions.com>. The company also provides online support for their complete product range via email at solutions@cix.compulink.co.uk.

| FALCON MKX PRICES | |
|----------------------------------|------|
| • Falcon MkX (4Mb RAM) | £899 |
| • Falcon MkXAT (4Mb RAM) | £949 |
| • 14Mb RAM expansion | £299 |
| • Mega ST/STe keyboard | £30 |
| • C-Lab Mkl & MkII upgrade | £299 |
| • S/PDIF interface (internal) | £249 |
| • ADAT interface (internal) | £499 |
| • SCSI board + 1Gb hard drive | £399 |
| • SCSI board + 2Gb hard drive | £549 |
| • Nomai 540Mb removable drive | £599 |
| • SyQuest 1.3Gb removable drive | £999 |
| • Iomega Jaz 1Gb removable drive | £999 |

For more information, phone 01422 340875, or check out the new Digital Media web site at: <http://www.digital-media.co.uk>

STUDIO Quad

4 Inputs/4 Outputs.



Multi-Effects Redefined.

What does multi-effects mean to you? Plugging in multiple signal processors to achieve the perfect blend of effects? That isn't DigiTech's idea of multi-effects and it shouldn't be yours. How many times have you only imagined the ease of a single rack unit capable of true multi-effects? Check out the Studio Quad. With its ingenious user interface, large custom display, and potent S-DISC™ technology at its heart, the Studio Quad is capable of not just replacing, but thoroughly eliminating the need for multiple, expensive, single-purpose processing units.

The Studio Quad features 4 completely independent inputs and outputs that gives you the power of two true stereo processors or 4 independent mono processors. But true stereo is only the beginning. Imagine a quad drum gate where each signal path is optimized specifically to achieve the best audio performance from each drum. Imagine the power to process two true stereo sources simultaneously without sacrificing control. You can even use the Studio Quad as four mono-in/stereo-out processors.

Is the Studio Quad complex to operate? Not at all! The front panel of the Studio Quad is ergonomically designed, and features a simple yet remarkably powerful interface that gives you effortless control over this vast array of sonic textures.

Finally, a product that is everything a Multi-Effects Processor should be.

Call for a brochure or visit your local DigiTech dealer for a comprehensive demonstration. Four ins., four outs for £499.⁹⁵.



New, large, custom display with easy-to-use interface.

- 4 independent ins and outs
- Multiple input/output signal path
- S-DISC™ powered
- The equivalent of 4 signal processors in 1!
- Automatic input leveling
- Dynamic parameter modifiers
- Full MIDI implementation
- Multi-function effect modules
- Full bandwidth effects
- True stereo effects

DigiTech

ARBITER
GROUP PLC

Wilberforce Road, London, NW9 6AX Tel: 0181 202 1199 Fax: 0181 202 7076 Internet: <http://www.demon.co.uk.arbiter>



experience

Happiness

with Philips DCC



18-BIT digital quality

Oh how they panicked when DCC was launched in the musical instrument industry. 'It's not a standard format!' they cried (it is now). 'It's not true 16 bit!' they yelled (actually it's 18 bit). 'It doesn't sound the same as DAT' sneered the Luddite know-it-alls with their hearing deficiencies. If you want to know the truth, read what the press say about DCC in the extracts printed opposite. And if you want to hear the truth - just buy one.

...there's no denying that 18-bit fidelity has won the day with its superior dynamic range and mirror-image reproduction...DCC users know the system sounds every bit as good as DAT, some say 2-bits better...when all £800 buys you is a 'bottom-of-the-range' DAT the intelligent choice has to be DCC.'

18 bit recorder with digital i/o, infra-red remote, track-titling, turbo transport, analogue cassette compatibility, traditional 700 series black-box styling. The world's best selling DCC machine.

DCC730

£249 INC. VAT

INCLUDES 5 X 90 MINUTE BLANK TAPES SAVING £35



- Buy any of these four outstanding DCC recording systems together with a DCC134 portable playback unit and save an extra £75.
- All DCC products and packages advertised here are available through a nationwide dealer network. Call SRTL on 01243-379834 to place your order, request literature or locate your nearest stockist.

Special Package Deals

DCC730 & DCC134

Includes 5x90 minute blank tapes saving in total £110 **£324**

DCC951 & DCC134

Includes 10x90 minute blank tapes saving in total £145 **£354**

DCC170 & DCC134

Includes 5x90 minute blank tapes saving in total £110 **£324**

FW68 & DCC134

Includes 10x90 minute blank tapes saving in total £145 **£474**



18-BIT

Happiness

18 bit recorder with digital I/O, Infra-red remote, track-titling, turbo transport, analogue cassette compatibility, chic and radical 900 series "Bauhaus" styling, technically identical to DCC730

DCC951
£279 INC. VAT

INCLUDES 10 X 90 MINUTE BLANK TAPES SAVING £70



Happiness is purity of sound

'the recording quality is to all intents and purposes indistinguishable from DAT or CD. Indeed, if you're using the analogue input, you'll actually get a little more dynamic range than you would with a DAT machine.' *Sound On Sound*

'... it's easy to forget you're listening to tape and not a silver disc... the improved dynamics of the 18 bit system are again apparent... certainly there's no feeling that this is CD's poor relation.' *What Hi-Fi*

'...the Philips exhibited excellent dynamics and a beautifully seamless sound that caught the air and space of the hall, subjectively far superior to when it was recorded from either analogue or 16 bit CD. ...All in all, I was seriously impressed with the DCC's'. *Hi-Fi World*

'In contrast to the two MiniDisc (MD) machines, the DCC sounded bold and vital, and ultimately more engaging - there was more going on, giving the aural senses more of a workout. The treble sounded clean and crisp, without the fried-eggs quality of the MD recorders, but with plenty of detail and a more palpable sense of presence. ...the mid-band was similarly more vital and engaging. The Philips was much more consistent than the others, with none of the rather crudely-drawn quality that becomes apparent on MD when the music turns stressful...by far the best sounding of the three'. *Hi-Fi Choice*

Happiness is picking winners

'These new generation DCC machines start out by sampling the incoming signal not at 16 bits but at 18 bits which gives rise to a potential improvement in both dynamic range and residual noise of around 12 dB... DCC sounds just the same as DAT...The way DAT keeps going up in price, DCC could well become the home recording standard of the latter half of the nineties.' *Sound On Sound*

'...DAT is starting to get out of reach with its escalating, almost elitist price range...The DCC730 is much better and cheaper than the recordable MiniDisc; it even makes a handsome partner for a direct-to-disk system. If only you could use it to back-up data I'd give up on DAT altogether. Go out and buy one...' *The Mix*

'Philips allegedly invested £500 million in the research and design of DCC... the low-cost DCC730 could seriously challenge DAT's hold on the high-tech market. ...could encourage small studios to adopt the format over the increasingly expensive DAT alternative.' *Future Music*

'I've used a good quality DAT machine for years and am no stranger to the way digital tape can render analogue sound dry and antiseptic. But the Philips simply wouldn't entertain the possibility, giving a surprisingly warm and fulsome rendition. The bass was particularly well-rounded and lacked the sense of sterility so common with digital. There was no trace of hardness higher up the frequency range.' *Hi-Fi World*

'All DCC recorders will accept a digital input at 32, 44.1 & 48khz, which is good news for anyone who wants to transfer a DAT collection to DCC. DCC's ability to handle any sampling rate you can throw at it might even precipitate a glut of second-hand DAT machines!' *The Mix*

18 bit portable recorder with digital i/o, wired remote, analogue cassette compatibility and stereo mic. input - sonically identical to DCC730/951.

DCC170
£249 INC. VAT

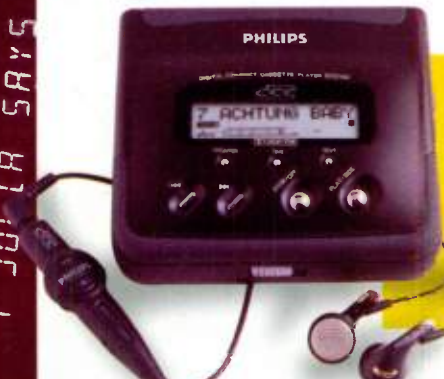
INCLUDES 5 X 90 MINUTE BLANK TAPES SAVING £35



18 bit portable playback unit with wired remote and analogue cassette compatibility - sonically identical to DCC730/951.

DCC134
£150 INC. VAT

INCLUDES 3 X 90 MINUTE BLANK TAPES SAVING £21



18 bit Turbo Drive DCC Mini System. 2x35 watt RMS 3-way bass reflex monitoring, Bitstream CD player, analogue cassette deck, PLL quartz digital tuner, 10 band spectrum analyser, spatial surround sound and infra-red remote control. A wonderful configuration for the home recordist at any price.

FW68
£399 INC. VAT

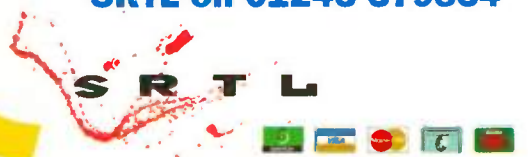
INCLUDES 10 X 90 MINUTE BLANK TAPES SAVING £70



★ ★ ★ ★ ★ 18-BIT

PHILIPS DIGITAL CCC COMPACT CASSETTE

To place your order call SRTL on 01243 379834



CALL SRTL ON 01243 379834 FROM 9.30AM TO 3.30PM FOR NEXT DAY DELIVERY

Unless your band is called The Beatles, three years is a long time to be absent from the world of mainstream pop music. In the even more faceless world of dance music, the 'stars' — if you can call them that — often burn out much faster, and are swiftly forgotten. But although it's *over* three years since the release of 808 State's last album, *Gorgeous*, Graham Massey is in fine spirits, and with good reason. The group's new release, *Don Solaris*, marks a return to form after *Gorgeous*, a record that Massey himself now admits to finding "weak"

Bath with Al Stone as our engineer, who's mixed Björk and the Stereo MCs. Of course, we wrote more tunes there as we mixed in the studio".

Massey feels Stone's input much improved the album: "He made it loads better, just in terms of keeping everthing sonically clear. It had got quite dense — and sometimes you can get in a bit of a pickle with that. We'd be concentrating, going 'errr — you know the fourth type of hi-hat in the eighth kit? I can't hear it!'. It's good to have an outsider come in and tell you that that doesn't matter. He's good to work off, a good critic — and

Solar Flair

GRAHAM MASSEY OF 808 STATE • RECORDING *DON SOLARIS*

It's taken a couple of years, but 808 State have at last emerged from a variety of studios with a sleek new album, the superbly-crafted Don Solaris. MATT BELL talks techno to head of State Graham Massey.

in parts — a victim of what he and colleagues Andrew Barker and Darren Partington perceived as the stagnation of the dance scene that they had dominated at the turn of the decade with singles like 'Pacific 202', 'Cübik', 'In Yer Face', and the albums *Ninety* and *ex:el*.

TIMELY RETURN?

However, Graham's current enthusiasm doesn't just result from satisfaction with the group's new material — he believes music is now more interesting than it was at the time of *Gorgeous*: "Programming is a lot more exciting than it used to be — the 'drum and bass' movement is widening the whole thing out completely. Of all of the things you hear when you go out clubbing, that's been one of the things that's got me really excited again. It's affecting all kinds of other music as well, and that's good for us. Once upon a time, I think people looked on what we were doing as rather flash, but it's accepted now. It's only in the last year and a half that people have been able to be that broad — things like Tricky would never have happened earlier on. There's a more open, eclectic climate".

So, perhaps the delay was a good thing. For *Don Solaris* is definitely late — in his last *SOS* interview, in November 1994, Graham was talking about a January '95 release. At the time, he claimed the group were "sitting on about 40 finished tracks". I wondered what had happened, and whether any of that 40 had made it onto the final record. "There's quite a lot of them. Basically, we hit a point where we'd recorded in so many different studios that it didn't have any continuity to it". Extensive recording had already taken place in Sheffield's Fon studios and Manchester's Planet 4, and mixes of the material had been completed, when 808's label ZTT suggested the band go and mix the album again from scratch in one place. The intention was not to do any further recording, but it didn't turn out like that: "We ended up going to The Wool Hall in



Photo: Piers Allardice

it became a proper album, as opposed to a collection of tracks. The recording process can be quite fragmented now, because you might take a piece from your home studio, and another piece from another studio... Once upon a time, you went in the recording studio and made a record — now you're collecting little elements all the time, which you put together at the end, in the mix."

I assumed that the group must have employed hard disk recording to assemble the final tracks in this way, but this was not the full story, as Graham explained. He purchased a Digidesign Pro Tools system last Christmas to digitally assemble the album master (of which more later), but most of the tracks themselves were finished by then: "It depended what studio we were working in. Some had Pro Tools systems running with *Cubase*, but we were flying things in on two-inch analogue tape as well. It was a real curry! We used a lot more live elements on this album, and hard disk recording helped out there, because you can almost treat audio as if it were MIDI information, but you've still got that spontaneity and randomness. For example, we

know a really good Latin drummer, so we got him playing along roughly to some stuff in our own studio, and then took a DAT of him down and fitted chunks of his playing into our grooves".

INSTRUMENTATION: GOING LIVE?

It is the more 'live' feel that sets *Don Solaris* apart from the likes of *ex:el* — although the incredibly complex 808 State programmed rhythms and basslines are still in evidence (of which more elsewhere in this article). Back in November 1994, Massey promised a more 'organic' 808 State, stating that the increased use of acoustic instruments that had begun on *Gorgeous* was much more advanced on the new record. Not only is this apparent now that *Solaris* has at last risen above the horizon, but the production techniques used on the album have been more 'organic' too, with wider use of improvisation-inspired composition, old-fashioned analogue effects, and amp miking techniques than you might expect from a band named after a drum machine. Graham: "We felt a lot more comfortable about

808 State at the Don Solaris mixing sessions, Olympic Studios, London, late 1995: (left-right) Andrew Barker, Graham Massey, Darren Partington.



808 State

▶ using guitars and instruments like the vibraphone and glockenspiel on this album. There's more brass and wind instruments on this one, too. They were on the others too, but it used to be a big deal to put a *guitar* in, say. Now we're comfortable with being less tied to SMPTE."

Session musicians were not required to play the brass and wind instruments, as Graham has been playing both for many years, having been part of various improvisational jazz bands before his techno conversion: "There are hardly any samples — we've really cut down on those. It's just a natural element that's always been there, from 'Pacific State' onwards."

Certainly, on the track 'Black Dartagnion', the band sound like they're trying to get every world genre into one piece of music: tablas, a jazzy bass clarinet, a didgeridoo, and a dub bassline blend together with subtle synths to create a much more natural-sounding backing than anything the group have produced before. Graham: "That was one of the earliest tracks, and survived from the Fon sessions — it's about three years old now. We didn't want to change it — we thought it was really good already. The bass clarinet is one of my favorite instruments, and there's loads of original Fender Rhodes in it too. We went to town on the electric pianos on this album — we got a Hohner Electra, which has a different sound altogether, and Wurliizers. We used them all layered together, for that Miles Davies 'five-Rhodes-in-a-room' sound."

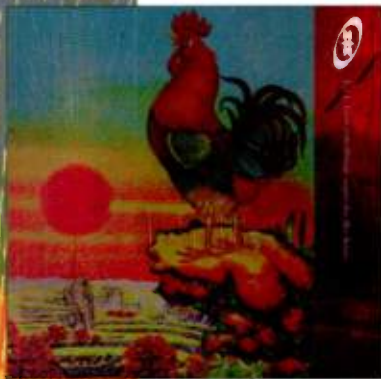
Other equipment was used to enhance the warm feel of the record, like the Korg G5 bass analogue processor, used by the band to impart a fat, Moog

synth bass-type feel to tracks played on a real bass guitar, for example in the closing passage of the track 'Mooz'. Graham: "You can get a lot of Moog-style feeling into your bass parts with it. We've also started putting kits through it. A guy I know who does a lot of drum and bass stuff got one just to put his kick drums through, and I've heard it on loads of jungle records since then! People have obviously all got the same idea at the same time there."

"We also used a lot of cheap analogue effects pedals — one of the best things I've bought all year is a Digitech whammy pedal, which I've used in countless situations."

The keyboard solo on the closing album track 'Banuchaq' — one of the wildest I've ever heard — was played on a Moog Liberation. The signal was sent through several analogue pedals and a parametric EQ, as Graham explained: "The EQ was being tweaked as the Liberation was played. You get quite a lot of control on a Liberation with its controller ribbon, and if you get the oscillators sync'ed up and pass the whole lot through a parametric EQ set to distortion, the sound really turns into something else. That wasn't sequenced — it was just a case of going at it!"

Indeed, for the recording of much of the album, the band exhibited the same tendency to 'go at' things and improvise. For Graham, this presented a welcome return to the kind of playing he had been used to in improvisational groups: but he did acknowledge the usefulness of technology for improvisation, as a non-classically-trained musician. "You're *constantly* having to deal with the limitations of your musicianship. I know this happens for a lot of people, if they're not trained musicians — and we're not, not really — you go to a keyboard every day, and you find yourself doing the same things. But if you're recording into a



808 STATE: SELECTED GEAR

SYNTHS

- ARP 2600
- ARP Odyssey
- ARP Quartet
- ARP Axse
- Chase Bit One
- EDP Wasp
- EM&M Spectrum Synth
- Emu Vintage Keys
- Korg Prophecy
- Korg Wavestation AD
- Moog Prodigy
- Moog Rogue
- Moog Minimoog
- Moog Memorymoog
- Moog Liberation
- Moog Opus 3
- Oberhelm 4-voice
- Oberhelm Matrix 1000
- Roland D50
- Roland JD800
- Roland Juno 106
- Roland Jupiter 4
- Roland Jupiter 8
- Roland JX8P

- Roland PC100

- Roland SH09
- Roland SH101
- Roland SH2000
- Roland TB303
- Sequential Pro One
- Yamaha CS30

COMPUTERS

- Atari 1040ST running Cubase
- Apple Mac Quadra 650 running Pro Tools

SAMPLERS

- Akai S1100
- Akai S1000

RHYTHM UNITS

- Alesis HR16
- Denon rhythm box
- Pearl Syncussion
- Roland CR78
- Roland RB
- Roland TR606

- Roland TR727

- Roland TR909

RECORDING

- Arbiter Time Dimension DDL pedal
- Boss overdrive
- Crybaby wah-wah
- Digitech whammy pedal
- Electro Harmonix Doctor Q
- Electro Harmonix memoryman
- Korg G5 bass synth processor
- Korg VCF pedal
- Morley wah fuzz
- MXR phaser
- Roland Space Echo
- Sovtec Bigmuff (x2)

ORGANS

- Bentley Acetone organ
- Fender Rhodes Stage 73
- Hohner Clavinet C

- Hohner D6 Clavinet
- Hohner Electra piano
- Vox Jaguar organ
- Yamaha DX7 mk I

GUITARS

- 6-string lap steel
- 8-string hawallan lap guitar
- Caslo MIDI guitar
- Fender Stratocaster
- Gibson Les Paul
- Guild Starfire
- Hawaiian Ukelele
- Ibanez ST50
- Kramer
- Takamine acoustic steel
- Takamine classical acoustic
- Yamaha 12-string acoustic

BASS GUITAR

- Fender Musicman

BRASS & WOODWIND

- Alto clarinet
- Bamboo flute
- Bass clarinet

- B flat Clarinet
- B flat trumpet
- Bongos
- C flute
- Cornet
- Congas
- Cowbells
- Egyptian tamborine
- Glockenspiel
- Kallimba
- Pocket trumpet
- Tamborine
- Tenor recorder
- Timbales
- Trafford soprano saxophone
- Trombone
- Vibraphone

MISCELLANEOUS

- Alto melodica
- Cromatic harmonica
- Electric violin
- Peavey Gold Amp
- Stylophone (x2)
- WEM Dominator bass combo

THE STATE OF SYNTHS TODAY

Though 808 State's enormous number of synths — featured on every album sleeve in tongue-in-cheek gear lists — is undiminished, it would seem that they've not bought much that's new since the making of *Gorgeous*. When I make this point to Graham, he concurs: "It's true. More and more, you get tired of buying. There used

here. But it's moved abroad. It was always a pretty British thing — when we were over in the States a couple of years ago, you could still pick vintage gear up cheaply there. You can't any more — and now the Japanese have gone mad for it as well."

A couple of modern synths have caught the group's eye,

out and push a slider. It's our master keyboard, but it's been on a few tours and is a bit battered. Some of our music is now shaped by the fact that several keys have been kicked in and are missing..."

Graham's colleague Andrew Barker has recently parted with one of his two prized Roland TB303s — and the high price he



Photo: Piers Allardyce

Graham Massey with the beloved 808 State Prophecy.

to be this feeling that buying a new synth would expand everything, all your sounds — but when you've bought your umpteenth synth, you realise it's only added a little bit to your power. You get a bit more choosy. We're in a fortunate position — some people only get one choice, don't they?"

"It seems analogue synth mania is finally tailing off over

however. Graham: "We got a Korg Prophecy when they came out, and it seems manufacturers are finally starting to listen to what people really want. That synth is really organic. I love the feedback loops in it — you can make everything go absolutely mental. The JD800 is still one of our main instruments for the same reason — you want something, you can just reach

for the unit allowed him to go straight out and buy the object of his desire, a Waldorf Pulse monosynth. Graham: "It's brilliant — just like a Memorymoog in a box. And it's stable. On the other hand, I saw one of those Quasimidi Ravens the other day — and I was appalled at how easily you could do rave music with the thing — it was like the Antichrist!"

computer, you can change what you record later. You have a link from your brain to your hands which is only good enough to do certain things — but then you have the link from your brain to the computer, which is capable of much more. But it's still your brain — and they're still your ideas. That's what's great about technology. Despite that, being in an improvisational band for years was a tremendous help to composing; you need to improvise to create in the first place. I think a lot of programmers now would benefit from being in a jamming situation. I know jams are sometimes really terrible, but it's a great skill to learn if you can. I've been trying to do it a lot more myself lately — just get in a room with humans and play. I've done

remixes where I've brought a lot of session musicians in: percussionists, and flute and sax players — and while I've been waiting for the album to come out, I've been doing a few other projects that are more musician-based; I like having that human element again."

WHOSE (INSTRUMENTAL) LINE IS IT ANYWAY?

On some of the songs, improvisation, hand in hand with technology, took the group far away from their original ideas for the track. One of the few new synths used on the album (see the 'The State Of Synths Today' box) was a Korg Prophecy. Graham had written a drum pattern with a North African feel to it, and when the group discovered that the

THIS IS A USER LIST FOR A RANGE OF MICROPHONES:

Black Crowes
Bon Jovi
Bonnie Raitt
Bruce Springsteen
Crosby Stills & Nash
Doobie Brothers
Elastica
Hall & Oates
Hole
Jesus and Mary Chain
John Mellencamp Tour
Lenny Kravitz
Lindsey Buckingham
Natalie Merchant
Offspring
Pearl Jam
Pulp
Queensryche
Radio Head
Red Hot Chili Peppers
Roxette
Smashing Pumpkins
Sonic Youth
Soundgarden
Stone Temple Pilots
Suede
The Beach Boys
Yngwie Malmsteen
1996 MTV Video Awards

BUT WHICH ONE?

WANTED — ONE CASIO FZ1

Rather as with their synths (see the 'State Of Synths Today' box elsewhere in this article), 808 State have not been gripped by upgrade frenzy where their sampler is concerned — they're still using an Akai S1100. Graham: "It's fine — except we sometimes take our stuff down to Bunk, Junk, and Genius for remixes — and our Akai disks don't fit in the S3200 down there. If we were going to upgrade, we might keep our S1100 and move up to an Emu or something — except then you have to convert your library sounds... Sometimes, though, it's good to have a clearout! I've still got a load of old Casio FZ disks that are like antiques now. I'd like to get those sounds back again, because there were a lot of good ones on the FZ sample disks, really upfront strings and things — and the FZ had a great resonant filter too. If I see one going cheap, I might get it. Anyone want to sell me theirs?"

► Prophecy keyboard could be set to different tunings, they elected to try an Arabic scale to fit the tone of the rhythm pattern — which was unused in the final version of the track, named 'Balboa'. Graham: "We played loads of Arabic flute over the top, then we took out about four bars that sounded good, wrote basslines to go with them, and worked out mid lines from the same improvisation. That track was one of the ones that we wrote in the studio at the end".

The arpeggiated and extremely unpredictable chord progressions at the end of the track 'Kouhoutek' came about in a similar way. Graham: "That came from another piece. We had the front part, and needed an ending. I had this tape which we'd done at our studio, with chord progression exercises on it — I was just messing around with some chords and the arpeggiator on our Jupiter 8. We edited some of the chords out and ended up with a section of about 24 bars, with some really good juxtapositions. It shouldn't really relate to the rest of the track, but somehow it does. We'll very often take a successful piece of a tune that isn't working properly as a whole, and work it into another track by changing the key."

Like the unexpected chord progressions on the fade of 'Kouhoutek', many 808 State tracks exhibit bizarre melody or bass lines. Another good example from *Don Solaris* is the sax line with a deliberate off-key note on the track 'Joyrider'. But Graham defends his choice: "Sometimes, it's limited musicianship, a lack of 'proper' knowledge that leads to strange chords in our stuff. But that happens in all kinds of other music. A 'wrong note' in something can be the most *right* note, because to do the obvious thing all the time is boring. We often squabble about certain notes in the middle of the night, and some things get left. It can be very hard to get tuning right, especially when you're dealing with sub-bass. You almost ignore a sub-bass line until you put it up on big speakers — and often, when it's in tune on large



Photo: Piers Allaroyce.
Darren Partington (left) and Andrew Barker (right) pictured at Olympic Studios during the mixing of *Don Solaris* late last year.

monitors, it twists out of tune again when you play it on something else quietly... it's only in tune when it's loud. That makes it hell to mix. You have to decide: should you make it in tune when it's quiet, or in tune when it's loud? Or do you just forget it? Often, we leave it, and again, on this album, Al Stone was good at encouraging us not to worry about things like that so much."

MIXING IT

The mixing sessions for *Don Solaris* (carried out using SSL consoles, mostly at The Wool Hall in Bath, but also at Olympic studios in London, where the photos accompanying this article were taken) were a vital part of the making of the record. Far from being a simple matter of balancing levels, this was the stage where heavy processing was applied to the tracks recorded, in some cases distorting them out of recognition, as Graham explained:

"Once upon a time, electronic music was quite a sterile environment — you wouldn't mike gear up, as the whole point was to DI everything. That was the thrill — everything was plastic and clean. It's all gone the other way now; you're trying to pretend it's *not* a D50 anymore, it's an old organ, or whatever. And distortion's 'in' as well, so we used the studio facilities a lot to give us room sounds — we'd send individual lines through miked-up guitar amps, and we used a lot of cheap processing, like crappy MXR phasers instead of the AMS in the

MASTERS OF THE RHYTHM: DRUMS & BASS

On *Don Solaris*, as on all their other albums 808 State do not use sample CDs to provide them with percussion loops, but build up their incredibly complex rhythm patterns themselves. Surely, I ventured, it would be easier to get them off the shelf? Graham was firm: "We haven't got any CD-ROMs. We don't have any big objection to doing it, but we never get so stuck that we have to resort to something like that. It's just not as challenging." I asked how they go about building up their patterns.

"All kinds of ways. Rhythm usually comes first when we start a track, though we do it other ways. We really like just programming on drum machines sometimes, like the Roland TR909 or R8. Or, we'll take weird preset patterns out of our CR78 or our Denon preset rhythm unit. That's an old preset organ accompaniment box, with wicked sounds in it — kind of like a TR808, but with its own character. I got it in an organ shop for about a fiver, and it's been

on loads of our tracks. Once you've got your basis, you stack further patterns over the top. Sometimes, you'll be flicking around trying to get two patterns in time, and you'll hit a point where they're not in time, but they're doing a rhythm that works anyway. At that point, someone shouts 'Stop! Let's see if we can do anything with that' — rather than try and fit everything into four-on-the-floor 'pockets'. You just have to be aware enough to recognise when something's working, even when the rhythms aren't supposed to go together.

"Sounds also dictate rhythms. Rhythms are almost like another layer of music in themselves, with different tones and textures: a Buddy Rich-style crusty vinyl sound will dictate a certain feel to a track, and a big fat 808 sound on the bass will dictate another. So, when we're making up rhythms, we're not just thinking like a drummer would, we're thinking sonically. Because you're not actually

playing the kit, you're free to think about the sounds you're using. When you stick a drummer in a room and record him, there's only one sound — and that's such an old ideal. You're just dealing with technique then, and though that's very important, there's a lot more to drumming than that. We've got more of a palette now, and that's brilliant."

808 State's fluid, portamento'd basslines are also extremely distinctive, and contribute a great deal to the group's impact on dancefloors. Here Graham shared a couple of secrets: "We get some really good basslines by putting a polyphonic line through a monophonic synth — sometimes chords played through a monosynth result in very odd bass ideas, depending on the way the synth handles note priority. We also do the same thing we do with drum patterns — we'll write basslines in *Cubase* to go with a rhythm, and then copy the bassline to another track and shift it on a few beats in time — to the next 'pocket', where it fits rhythmically, but sounds totally different to how it used to."

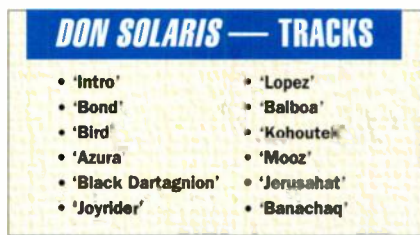
studio. To give a big 'soundscape' feel on 'Bond', we had the drums playing through some big speaker stacks into a room, and then we miked those up.

"We used some digital outboard too — Lexicon reverbs from whatever studio we were in — but what I *really* love is analogue squelch boxes, like the new Mutator filter, which I've just tried out [see the Mutator review on page 126 this month — Ed]. That's wicked! We didn't use it on the album, though — it wasn't out then. We like to use a lot of old analogue effects, like the Roland Space Echo and an old Echoplex, to give the album a real flavour, rather than having everything too clean. At the other end of the scale, we also used digital distortion — our sampler feeding back on

remained fairly distinct musical entities. I asked Graham why he had changed his mind.

"That was an idea I had that I *was* going to do. There's elements of it in there — that's what the 'Intro' is for at the start, it's like an overture of pieces from other tracks — but it didn't turn out the way I thought. I was quite ambitious when I started, and did a few psycho versions at home, but the album lasted two hours, and it was all getting a bit long-winded! Gradually, I got that out of my system, and toned it down to something that worked. I think you would need to do an album in a different way from the start to pull that kind of thing off successfully. I've been doing stuff since just to try it out, really loose stuff that you can jam together. You don't end up with songs so much, just themes."

Unable to decide whether to master onto analogue tape or DAT once the crossfading was complete, the group elected to test both: "We had it cut from half-inch first, and it was a bit muddy for us. Half-inch tape sounds great with minimalist stuff, but this album was too dense for that. So, we went back and cut it again on DAT. Certain tracks were suited to half-inch, and others weren't, but we cut the whole thing from DAT in the end. And now we're going to sell all our half-inch for recycling, because it costs a fortune!"



itself. We sampled that, chopped it up, and used it in 'Bond'. It sounds like a motorbike — in fact, anything that sounds like a motorbike is usually a piece of equipment going wrong. We have DATs with different kinds of sounds stored on them, so when equipment starts to die on us, it's 'quick! Stick it on the motorbike DAT!'".

At the mixing stage, the songs varied wildly in their complexity. Involved pieces like 'Bond' went across 48 tracks, while the comparatively spartan 'Lopez' only used eight tracks. SSL automation was used to mix the entire album, which was then placed into Graham's then-newly-purchased Pro Tools system so that he could create a crossfaded master.

MASTERING THE SITUATION

When he spoke to *SOS* in November 1994, Graham was looking forward to getting to grips with a digital editing system such as Pro Tools, so that he could create records with no clear track boundaries. At the time, he said, "An editing system is something we could use really well... we've done maybe three mixes of each track, and then lots of little sections ready for editing — we want to merge the whole thing, make it one continuous piece. I like the idea of using music as raw material to build a bigger picture; that's something the new album will definitely show". I was surprised on listening to the album that this appeared not to be the case. Tracks crossfaded into one another, but

THE DON ARTICLE

With the album now on release, and the striking 'Bond' already picked as the first single. I wondered which tracks Graham thought would make good follow-up 45s. He seemed most keen on the commercial 'Jerusahat', or the simple 'Lopez', with vocals sung by the Manic Street Preachers' James Dean Bradfield. "Instrumentals seem to be a bit more acceptable in the charts lately — you've had Robert Miles' 'Children' and the X-Files track. I'd like to try and put 'Jerusahat' out as a single. I think it'd sound great on the radio." Was this his favourite on the album? "No, that changes all the time. I think the album as a whole is quite balanced, and that's the main thing — it's been concentrated over a period of time into something quite solid. Of course, my picture of it is a lot bigger, because I know all the other stuff that was going to go into it... I could get picky about some aspects of it, but you've got to stop doing an album at some point, put in a full stop — and do another one!"



Don Solaris was released on June 17th, on the same day as the new single, 'Bond'. 808 State are planning a British tour for later this year.

THINK AGAIN!



THE AUDIX OM SERIES

The Audix OM series of microphones is one of the best selling and hottest mic lines in the United States, outselling and outperforming many well-established regulars. Once the stars use an Audix OM vocal mic, they stick with it. Now they are available in the UK and you can check them out at any authorised Audix dealer. At last, the £119* in your pocket doesn't have to go on buying a non-descript old timer. Hear the difference, then make a difference with the Audix OM3.



Audix is exclusively distributed in the UK by: SCV London, 6-24 Southgate Road, London N1 3JJ Tel: 0171-923 1892 Fax: 0171-241 3644

* Recommended retail including VAT for Audix OM3-xb inc. soft case & clip.

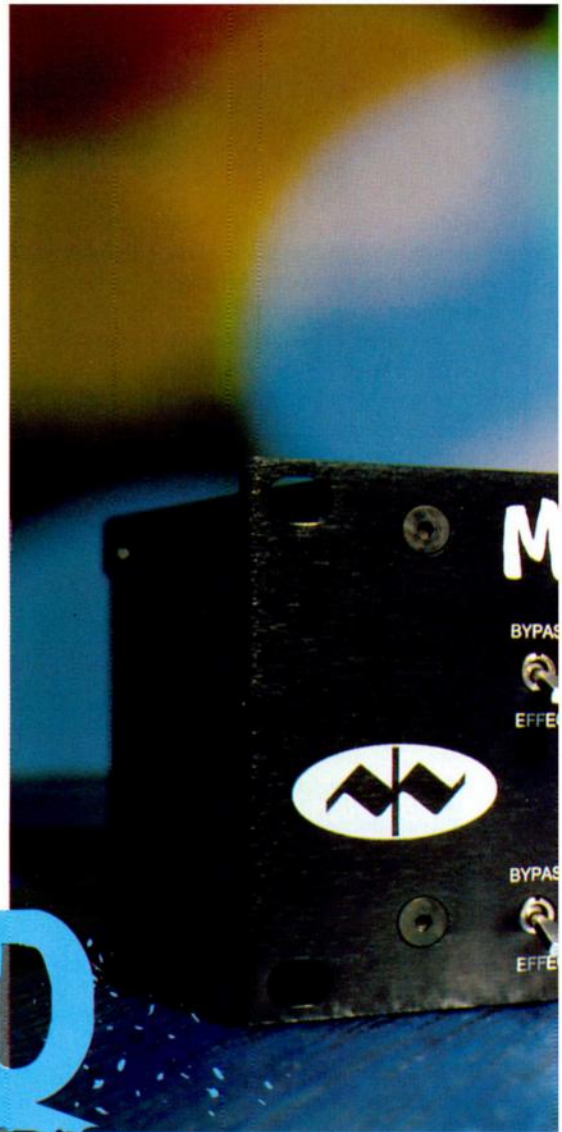
The predictability of modern digital sound sources, while convenient, may have you longing for some of the chaotic complexity of analogue.

PAUL NAGLE looks at an analogue filter which could put the surprise value back into your music.

With the thirst for analogue warmth in a cold digital age seemingly unquenchable, the number of devices aimed at the retro market shows no sign of slowing. While some companies are busy packaging old sounds in new boxes, others are concentrating on devices through which you can force your squeaky-clean sounds, to have them emerge suitably endowed with retro-credibility. New boys to this market are Mutronics, and their first offspring, the Mutator, aims to bring the warmth of the analogue filter to our warm analogue ears.

CONTROL FREAK

The Mutator is basically a pair of 24dB-per-octave analogue filters with envelope follower capabilities. This latter point means that the input volume level of a sound can determine the cutoff frequency of the filter — in other words, the filter 'follows' the 'envelope' of the input signal. An external audio source can also be used as the control signal, allowing the Mutator to superimpose the envelope of one sound onto the filter contour of another — in much the same way as an external key input on a compressor might enable one sound to control the compression characteristics of another.



altered

MUTRONICS MUTATOR STEREO ANALOGUE FILTER

Since the Mutator is a two-channel device, the controls for each channel are largely duplicated, although there are some important differences that I'll point out as we pass along. Over on the far left of the front panel is the Bypass/Effect switch, enabling quick and convenient wet/dry comparisons. How often this simple control is forgotten by manufacturers who should know better! Next up is the Internal/External control source switch, which determines whether the treated signal or an external audio feed will be used as the control source to drive the envelope follower. The Gate/Envelope switch tells the Mutator how its envelope will react to the control source. In 'Gate' mode, the control source becomes a trigger, turning the envelope follower fully on as soon as the signal reaches the threshold set by the Sensitivity knob, and fully off again as soon as the signal falls back below the threshold. In 'Envelope' mode, the control source is continuously tracked by the envelope follower, to provide a variable control voltage for the VCF (Voltage Controlled Filter) and VCA (Voltage Controlled Amplifier), with the Sensitivity knob taking on the

States

task of controlling the envelope drive level.

The envelope controls themselves are quite basic for anyone used to the multi-stage variants found in most of today's digital synthesizers, providing adjustment of attack and release times only. This is probably the weakest area of the Mutator's spec. It would be nice to have a full implementation of an ADSR envelope, which would give a much more interesting opportunity to provide filter modulation over an otherwise static signal. One way around this is to use an external control source to provide the envelope follower with the ADSR characteristics required — when used with a synth this could be achieved by programming a second sound to play in unison with the first, and feed this from a separate output into the Mutator's External input. Usefully, the envelope follower is equipped with an LED level indicator that shows the current output



level. This LED makes setting drive and threshold levels relatively simple.

The onboard LFO (Low Frequency Oscillator) is capable of running from approximately 0.1Hz (one cycle every 10 seconds) to 100Hz (100 cycles per second). This is a good, healthy range, allowing subtle changes in timbre over time, or clangorous, pseudo-ring modulation effects. Four waveforms are available for the LFO, these being the familiar triangle, square, ramp and inverted ramp. A single LFO depth control is provided, doing duty for both the VCF and VCA. A 3-way switch determines whether the LFO will modulate VCF only, VCA only, or both. In keeping with the Mutator's suitability for stereo signal processing, Channel 2 will happily make use of Channel 1's LFO. The LFO waveform sent from Channel 1 may be inverted, for dramatic stereo auto-panning or filter frequency-dependent sweep effects.

The voltage from the envelope follower arrives at the VCF via an Envelope Sweep control knob. This knob is capable of generating both negative (turn to the left) and positive (turn to the right) control voltages to govern the filter's cutoff frequency — it's good to see the possibility for negative envelope sweeps. Apart from the more obvious uses, such as those delightful squelchy synth 'twangs', the Mutator can also perform frequency 'ducking' — perhaps to drop the high frequencies from a heavy guitar backing during vocal passages, for instance?

VCF cutoff and resonance both have their own dedicated controls. With resonance turned way up, the filter can be driven into good old fashioned self-oscillation. A switch on the far right toggles the VCA in and out of circuit.

THOROUGHLY MODERN MIDI

The review machine came equipped with the optional MIDI board. This option allows the Mutator to respond to various MIDI message types. At its most basic, the MIDI board might be put to work triggering the Mutator's envelopes from MIDI Note On commands. The filter cutoff tracks the incoming MIDI note number and may also be swept across its entire range by use of pitch-bend commands. Resonance is controlled from a modulation wheel. The Mutator's response to MIDI controller numbers is hard-wired at the factory, so if you don't like a particular controller assignment you'll have to use some form of external MIDI processor to do some re-mapping. I found the assignment of mod wheel to resonance the most problematic, since it precluded the use of mod wheel vibrato. I got around this by programming my MIDI patchbay to filter out mod wheel messages to the Mutator. The VCA level will respond to standard MIDI controller 7 volume messages, but an option to apply key velocity to VCF cutoff and VCA level would have been welcome.

MIDI channels are selected with a rotary switch on the rear of the machine, which is a tad

pros & cons

MUTRONICS MUTATOR £562/£740

pros

- Filter definitely exhibits that 'something' that we all find appealing in vintage synths.
- Dedicated knobs and switches for quick 'n' easy use.
- Capable of dramatic dynamic stereo effects from a mono source.
- External trigger/envelope mode.
- Quirky LFO retrigger feature (with MIDI option installed).

cons

- Limited (and optional) MIDI control.
- No patch storage capability.
- Simplified Attack-Release envelope may put off some synth power-users.

summary

Beautiful-sounding filter with real analogue controls and a penchant for bizarre, off-the-wall stereo effects, marred only by a very basic envelope implementation and limited MIDI control. If you are looking for an add-on analogue filter for your digital synths, this device could prove a little frustrating, but as a production tool the Mutator has a lot going for it.

SOUND ON SOUND

Mutronics Mutator

SOCKET TO ME

Each of the Mutator's audio channels has four associated sockets on the rear. The audio in and out are pretty much self-explanatory. The external input is where a second audio source is plugged in to act as a modulation source. The final socket is a simple CV (Control Voltage) input, which will allow modulation of the filter cutoff, perhaps from a modular synth system or a MIDI/CV converter. The audio in, external in and CV in of channel 1 are normalised to channel 2, which helps with setting up for stereo operation (ie. 1-in, 2-out). Power is supplied to the Mutator via a standard Euro-plug connector with easily accessible fuse — none of those nasty wall-warts or line-lumps here, thank you very much.



The basic Mutator's rear panel (although the MIDI version was tested for this review). This version also sports the inconveniently-sited rear panel MIDI channel selector.

► inconvenient! While Channel 1 responds on the chosen MIDI channel, Channel 2 makes use of this channel + 1 (or channel 1, if the selector is set to 16). Unfortunately, there is no way to allow both of the Mutator's audio channels to share the same MIDI channel. Also on the rear panel (although I am assured by Mutronics that they will make it to the front in production models!) are two switches responsible for toggling the Mutator's use of MIDI Note On/Off commands.

We've already visited 'Gate' mode, which merely triggers the envelopes. When the Mutator is in 'Envelope' mode, MIDI Note On commands can be used to reset the LFO back to the beginning of its waveform cycle. This voltage will be held until a MIDI Note Off command is received, at which point the LFO will continue to produce its normal waveform. This simple feature is an extremely inspiring tool for creating all kinds of subtle — or not so subtle — rhythmic variations. You could use this facility to keep a repeating synth pulse in time, or just make random stabs to add a little anarchy to the proceedings.

WELCOME TO THE HOUSE OF FUN!

With my mouth watering like a vampire in a blood bank, I plugged in, looped a couple of favourite sequences and began to play around with the filter controls. The Mutator began to burble and squeak in a most appealingly analogue manner. I found the envelope follower extremely responsive and was able to achieve excellent results with a variety of recorded sources, such as bass or rhythm guitar tracks, synth pads and backing vocals. By triggering the VCF and VCA from a drum track and feeding the bass guitar track through the Mutator, I was able to generate a whole new bass part! With more subtle settings, I found that I could add rhythmic emphasis to synth pads without making the effect too obvious, the drum hits just lifting out the higher frequencies in the sound. The LFO retrigger option had simple bass lines squawking and zipping across the speakers like a demented parrot! Even pedestrian sustained chord parts took on a whole new meaning with a little stereo LFO filter sweep and some externally triggered stabs. At a pinch, the Mutator also does a reasonable job as a pair of single-ended noise reduction devices or as basic noise gates, although the results are not as refined or controllable as one would expect from a dedicated processor.

The next job was to plug in my trusty MiniMoog and see just how good the Mutator's filter really is. I was pleasantly surprised to discover that the answer is "pretty damned good, actually!" I had to check that I'd opened up the Moog's own filter because it was occasionally difficult to tell the difference — now that is a good filter! The more I attempted to overdrive the Mutator, the warmer it sounded. A sampled sawtooth waveform from an Akai S1100 sampler emerged from the Mutator with an altogether different character, thicker and much more worthy of attention in a busy mix. This is without doubt the best-sounding retro filter I have come across. Hear it and weep. In fact, the only real drawback is that lack of a full ADSR envelope, which would really be the icing on the cake. I seemed to spend far too long setting up separate feeds from my sampler to provide envelope templates, when a simple twist of a control would have been much less traumatic. The Mutator's inability to have both channels trigger from the same MIDI note message made setting up for auto-panning a bit awkward too — a 'MIDI link' feature would certainly be on my wish list for future developments.

PRODUCING THE GOODS

As a production tool, the Mutator is pretty much in a field of one. I can think of no other device that would achieve quite the same results — and certainly none that would be as quick to operate. Into one side goes a relatively mild-mannered musical part and out the other climbs a party animal with a 12-pack and an attitude! When in use as a synth retro-filter, the Mutator is a little clumsy due to its limited envelope, its basic and inflexible MIDI specification and the lack of any programmable memories. For those who are prepared to put in the effort, the results are the best that I have heard from the new breed of analogue filters, but the Mutator is arguably more at home in a production environment than hanging off the back of a sampler.

This machine has its little idiosyncrasies, but then so do all the best things in life. I have a strong suspicion that the Mutator will carve out a niche for itself and will invoke the kind of fanatical devotion reserved for similar niche products — the Roland Dimension D and dbx Boom Box immediately spring to mind. This device scores highly as a production tool, and should certainly be checked out by remixers everywhere. In the right hands, it is a highly creative device that could just give your productions that elusive edge.

SOS

- E** Mutator (no MIDI) £581.63; optional MIDI board £158.63; MIDI Mutator (MIDI board pre-installed) 740.25. Prices include VAT.
- A** 27 Britton Street, Faringdon, London EC1M 5NQ.
- T** 0171 608 3636.
- F** 0171 490 0474.

info

SUMMER Sizzlers

Huge Discounts - Don't Miss Out!

Digidesign Sample Cell II (Mac) **£395**

Digidesign Audio Media II (Mac) **£395**

Akai DR4d + H/D + Midi Board (1 only) **£999**

MidiQuest PC1 Tin 1Out Interface (PC) **£39**

Atari Prodigy Sequencer ST (1 only) **£1.00**

Digidesign Audio Media II + **E Magic** Logic Audio Package (Macintosh) **£899**

Pentium P100 8Mb RAM, 1.2Gb Hard Drive, Quad CD ROM, 32 Ch. Midi Interface, 15" SVGA Monitor, K/B, Mouse **£1099**

E Magic Sound Surfer Software (PC) **£39**

Steinberg Cubase Compact (PC) **£39**

KCCM Resample Pro (PC) **£49**

Steinberg Midex Plus Interface (ST) **£129**

Peavey Analogue Filter (ex demo) **£199**

E Magic Logic Software (PC) **£279**

MaxPax Midi Recording S/ware (PC) **£29**

Opcode Vision Software (Mac) **£79**

Dr. T Quick Score Deluxe (PC) **£5.00**

Adapttec SCSI Interfaces (PC) **FROM £5.00**

E Magic Micro Logic Software (PC) **£29**

Atari Sound Tools H/D Recording System **£49**

01623 422 668



Gene 15" SVGA Monitor (ex demo) **£149**

Falcon O30 4/65 Computer (used) **£299**

Tannoy CPA5 Satelites + Bass Bin Monitors **£199**

Micropolis 2Gb AV Hard Disk inc. Case **£599**

Steinberg Cubasis Audio Software **£179**

Falcon D2D 4T/FX H/D recording S/W **£49**

Call us now for other fantastic Summer Sensations!

THIS MONTH ONLY!

Yamaha DB50XG PC Daughter Board

Stunning PC sound board featuring a massive 12Mb of quality ROM sounds, three independent 24 bit digital signal processors, XG General Midi and 18 bit delta-sigma output. It runs on all major operating systems and plugs directly into any Waveblaster™ compatible device.



£115

WHILST STOCKS LAST!

OFFICIALLY

THE U.K.'S TOP

Soundscape

DEALER 1995

Soundscape V1.17



This best selling hard disk recorder is available as either a single unit, multiple modules or as a complete running PC package. Check this spec: • 2u 19" rackmount unit • 8 physical tracks • Modular units can be linked together to give up to 128 tracks of pure digital wonderment • 24 bit internal signal processing • 16 bit linear • 22.05 / 32 / 44.056 / 44.1 / 47.952 / 48kHz sample rates • 16 bit sigma delta A/D conversion (64x oversampled) • 18 bit sigma delta D/A conversion (64x oversampled) • Fader automation • Very quick non-destructive editing • Automatic de-glitching • 8 realtime parametric EQs • Microsoft Windows 3.1 compatible • Realtime fade in/ out • Automated fade in/ out • Volume contouring • Fully automated volume and pan controls • Assignable fader groupings • Powerful noise gate... There really are far too many features to list in this advertisement, so give us a call today to arrange a full no nonsense demo of this great multi track recording tool.

Soundscape
DIGITAL TECHNOLOGY LTD

Official Top UK Dealer

Apple Authorised Reseller

- Suppliers of P.C., Atari & Macintosh hardware.
- Full range of software for all platforms in stock.
- Special Discounts for academic and educational orders*
- Hard Disk Recording and CD Authoring specialists.
- Complete running systems of hardware / software and expander packages our speciality.
- Prompt delivery service.

Cash

Finance available subject to status, written quotations available upon request

All prices include V.A.T unless stated. **Multi Media Music** is a division of Academy of Sound Ltd. 182-184, Chesterfield Road North, Mansfield, Notts NG19 7JD

* Educational and academic discounts are only available when accompanied by an official written order.

Prices correct at time of going to press and are subject to availability.

To celebrate our Soundscape Top Dealer Award, this month we're offering you **Soundscape** plus **FREE Time Stretch Option** worth **£150** plus **FREE 1.2Gb Hard Drive!!**

ONLY £2500

9 Months Interest Free Credit £1000 deposit + 9x £166.66 per mth

REVERB CHIP • COMING SOON!

THIS IS ONLY A SMALL SELECTION OF OUR PRODUCTS SEE 100'S MORE BEST SELLERS IN OUR FREE 72-PAGE COLOUR CATALOGUE!

NEW RELEASES

NEW RELEASES

NEW RELEASES

NEW RELEASES



BLACK 2 BLACK KILLER VOCALS

A double CD set rammed full of Murderously, Deadly

digitally recorded vocals. Created by McIntosh & Charles of 'Black 2 Black' fame, these CDs contain all the vocals you'll need to make slammin tracks. Double Audio CD £59.95



JUNK PERCUSSION

To the percussionist the world is a different place. Everything can be used to make a sound, and

renowned percussionist Roger Turner has the vision to play instruments and objects from the everyday and throwaway, creating exciting sound and rhythm. This highly respected Junkyard Shamen has played a superb collage of rhythms, textures & fills which will inspire and prove invaluable in all areas of music production. Audio CD £59.95



CUCKOOLAND UNHINGED

Are Cuckooland Insane? Reality is strange and this incredible selection of rhythms, textures and FX will have you making

music in very new ways. Grooves from 67 to 170 bpm provide rhythmical backing unlike anything you have heard before, the textures and FX are not of this world. This collection is ideal for all - from Trip Hop to Film - new styles of music will definitely evolve from this great CD! Cuckooland is our state of mind. Audio CD £59.95



THE ULTIMATE PIANO COLLECTION

FIVE STARS! (Sound on Sound) New from East-West: Four of the finest pianos ever built. Steinway D, Steinway C, Fazioli F228, and Bosendorfer 225.

Every key sampled in various attacks, with and without sustain pedal. The best Piano CD-ROM available - and the best possible with today's memory capabilities. \$260,000 worth of grand pianos ready to play - on a silver disc. One of them will surely fit the music you're working on. Come and demo this amazing disc and we're sure you'll be convinced it's the best. Available on AKAI CD-ROM. Vol.1 (all 4 pianos): £249.00. Vol.2 (Fazioli & Steinway C): £149.00. Vol.3 (Bosendorfer & Steinway D): £149.00



SAMPLE MATERIAL

Sample Material is a sonic collage from the sound libraries of visionary New York producer Bill Laswell and the 'Material' cadre

containing Loops, Textures, Riffs, and Single Sounds, Atmospheric Ambiences, TranceScapes, Ethic Loops & Riffs, Metafied Grooves & Kaos. A Sampling Product covering the broadest spectrum of musical genres. Ammunition for all Sonic Wizards who wants to create music with no boundaries. "EVERYTHING IS PERMITTED, NOTHING IS TRUE." Audio CD £59.95, AKAI CD-ROM £149.00



MUSIC & MIDI FOR MAC/PC

Over 600Mb (over 3000 items!) of freeware, shareware, plus demos of 56 music software packages such as Circle Elements, Cubase

Score, Deck, Logic, Performer, Pianist, Vision, etc. You also get loads of drivers and Mixer Maps, MIDI-files in many styles (Classical, hit, jazz, rock - over 600 files), and System Sounds. Also many invaluable utilities: e.g. format converters (WAV-AIFF), internet sound utilities etc. Only £29.95! (please specify PC or Macintosh)



DRUM DOCTOR II

With over 1500 new samples, Ross Garfield has dramatically

raised the standard even higher for this sequel to "The best drums on Earth". Even better sounds, more takes per instrument, 5 dynamic levels and more programs. Audio CD £59.95, Samplecell & Kurzweil, £199.00



THAT JUNGLE FLAVOUR

New from Zero-G and EXTREMELY HOT! Flavours from every tree in the Jungle - Intelligent,

rough, hard, steppin' breaks and FX for todays Drum 'N' Bass samplers. Over 350 new transformed breakbeats and 600 of the latest stabs, pads, noises and FX make this library the most extensive Jungle collection to date! Audio CD: £59.95



XX LARGE MOST WANTED

The Rhythm Box is back with a vengeance! Over 2500 of the original preset drumloops from 37 classic analogue

drumboxes including Roland, Korg, Elka, Farfisa, Hammond, Casio, Univox, Wersi and many more..... All loops are tuned exactly and bundled in speeds of 80 to 160 bpm. Double Audio CD £59.95 CD-ROM (Akai/Emu, Roland, Samplecell) £149.00



TRAVELOGUE 1

This 1000+ samples of ceremonial drumming, male & female chants, musical bows, hand

clapping, funeral xylophones, royal horns, choirs, grinding songs, crying widows, village noises & much more. A trip to Africa? - Pack your bags! Audio CD £59.95



LOOPZILLA 2

This new sequel features over 2 hours of HipHop, R&B, and Funk samples. "Loopzilla 2" combines the best

elements of programmed grooves & live playing with new melodic and funk elements. Tons of Slo' Jamz, R&B and HipHop from Atlanta, Miami, New York & Oakland. £69.95 for this red hot 2-CD package.



INTERFACE DANCE

Superb all-round dance collection - NOW ONLY AVAILABLE FROM TIME+SPACE (exclusive worldwide distribution). INTERFACE DANCE has definitely cracked it.

Extremely well-organised, this CD encompasses many areas of production including Nu-NRG/Euro, Techno/Industrial, House/Garage, R&B/HipHop, Jungle and Hardcore. Drum Loops, Hits, Synth & Bass multisamples, Vocal Shouts/ad-libs & FX, TB303 basslines, Horns/Hits & stabs, Piano, Sax & Hammond, Guitar riffs, MC/Ragga vocals and more... Fantastic reviews in the press! Audio CD: £59.95



LOOPMATIC

This superb tool is specifically designed to provide a fast and flexible working environment for analog sweeps, effect loops, digital sweeps, RND loops & drum sweeps. Each sound

has been sampled with it's filter cutoff set at 32 different levels, so there are literally thousands of ways the sounds can be used, from creating smooth sweep effects to random bippy sequences. 320 different categorised sounds are included on this mixed-mode CD, containing an Akai CD-ROM section with over 10,000 samples!! Mixed-mode Audio/Akai CD £59.95



ALI-BABA & THE 40 RAVERS

The Orient offers a massive range of beautiful instruments and percussion that can be used in many styles of

music, and this new library captures just about all of them from Tunisia, Iran, Irak and Turkey! Hot off the press, this double CD contains phrases, individual notes and hits of instruments, percussion, turkish orchestras, moving atmospheres and oriental choirs. Call for more details!! Double Audio CD £59.95



MEGATON BOMB

Five star review - "An almost ridiculously complete 2-CD package of loops, drum hits and other assorted goodies -

everything from construction kits containing multi-layered arrangements to drop-the-needle turntable noise, from TB303 Bass riffs to Sci-fi dialogue. If they let us give 6 stars for selection, this package would have scored even better. ☆☆☆☆" (Keyboard USA). The collection features ambient, hardcore, trance and techno on a 2 disc set for only £69.95



DOUBLE PLATINUM DRUMS

Brand new from Ilio Entertainments in L.A. Multi-Platinum record winners, producer John Boylan and drummer Michael Botts have

put together one of the smartest, most tightly assembled collections of drum loops to date. Phenomenally well-recorded and mixed in true stereo with the same high quality you expect from platinum records. These acoustic kits are played with raw, rockin' energy and plenty of feel. Loops & hits, Dry & Room, Intros, Hits & ends for complete tracks! Audio CD 2-disc set, £79.95. CD-ROM 2-disc set for Akai, Roland or SampleCell, £199.00



TOTAL CONTROL

The worlds first sample-CD with realtime-filtered & arpeggio-ed analogue sounds. Total Control

makes a brand new analogue synth out of your sampler with 4500 spanking new sounds, fractal loops & inspiration sets, all on a mixed-mode double CD-ROM including a 500mb Akai section!! Mixed-mode Audio/Akai double-CD £59.95



GROOVE TO LOOP

This new CD is full of funky drum loops, recorded by 9 session drummers. Over 500 loops covering Funk,

Dub, Ambient, Jungle, Trip Hop, Techno & Reggae. Also contains a selection of programmed loops. The CD is really full of Hot Grooves for every dance style. Audio CD £59.95



DEF HOUSE

Brand New! Dedicated specifically to House music production, this high-profile stormer from Universal Sound Bank in France sets its target

square on. Focussing on the dance floor, you'll find it delivers tons of top-class material for all kinds of house music. We expect this one to enter the hall of fame! Definitely not to be missed. Available NOW in four formats: Audio CD: £59.95, or choose a version formatted specifically for Akai, Roland, or Ensoniq samplers - £149.00



ABRACATBLA

New from AMG: produced by Talvin Singh (one of the leading exponents of UK ethnic fusion, who works with top acts like Massive Attack & Bomb The Bass). A huge

selection of mostly ethnic percussion. Highly contemporary ensemble grooves with extremely intricate, tight performances, broken into various mixes/combinations/sounds. There is also a section of solo patterns complete with very comprehensive sets of single hits. Super tight performances and great sound quality! Audio CD: £59.95



CREATIVE ESSENTIALS SERIES

'Dance Vocals' is just one of thirty brand new sample CDs in this amazing new series from Time+Space. Over 200

samples on each disc. Every sound is provided in three formats: Audio, WAV for PC, and AIFF for Mac. Available at Virgin, HMV, and all good stockists of music software. Call now for full details! "There isn't a hint of naiffness to this product, and that appears to be a trait inherent to the Creative Essentials Series... A generally excellent series" (The Mix). Each volume in the series is only £19.95 inclusive.



RAVE T.R.A.X.

A hot new source of original dance samples from Germany. Expertly arranged into construction kits for

Jungle, House, Trance etc, and featuring Drum & Percussion Loops, Synth Hooks, Chords, Sequences & Basslines, Vocal Hooks, Ad-libs, Single Drum & Perc samples, and Multisampled Synths & Keyboards. All BPMs and keys are given. Audio CD £59.95



SYMPHONIC ADVENTURES

New library of orchestral samples from Everglades in France. As soon as we heard this superlative disc we knew it was a winner. Explores the

darker side of the orchestra. Perfect for film composers or for any music that needs powerful stings, effects, phrases, suspense, moods, etc. A truly huge set of immaculately performed and immaculately recorded stereo samples. This tremendously versatile orchestral library will not disappoint and we recommend it highly! Audio CD: £59.95, CD-ROMs (coming soon): £149



96th Street by BLACKBEAT

O.D. Hunte's sequel to his successful 'Freekee Jack Swing' CD. This CD follows a similar format, but concentrates on the split

loops and adds a large selection of individual sounds on top of these. The loops are divided into three styles - Rap Street Loops, Future Funk Street Loops, and Caribbean Street Loops. Each loop features four alternate versions, a standard drum loop, one with bass, another with vocal-fx, and lastly with everything together. This sequel will not disappoint. Audio CD: £59.95

Invest in the World's best Sounds on CD & CD-ROM

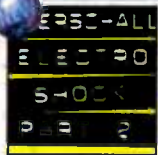
WE ARE INTERNATIONAL DISTRIBUTORS FOR A.M.G. • BEST SERVICE • BIG FISH • EAST-WEST • E-LAB • ILIO ENTS. •

NEW RELEASES

DANCE

DANCE

DANCE



ELECTROSHOCK PART II

The sequel to a very successful techno dance library, this 2-disc set looks set to do equally well.

CD1: 70 minutes audio plus MAC (AIFF) & PC (WAV) ROM data.

CD2: 68 minutes audio plus AKAI ROM data. Huge collection of fresh analog+digital stuff for serious technoheads, including rare vintage synths and construction kits. 2 Disc Set: £59.95



JUNGLE WARFARE

If you need Jungle this is unmissable. • Loops • Riffs & fills • Perc Kits • Pads & Chords • Bass • FX • Vocals.

"Excellent fidelity, balance & punch, & variation in feel & sound... there's no serious competition. Rated 5 stars out of 5 ☆☆☆☆☆" (Sound on Sound, UK). "Kicking grooves... a wide range of styles... highly useful... AS UP-FRONT AS YOU CAN GET." ("The Mix", UK). Audio CD: £59.95



X-STATIC 1 - REMIXOLOGY

The XXXX-Largest CD ever?? 4000 samples from the now deleted X-STATIC GOLDMINE 1 and XL-1. If

you don't own these two classics then this new CD is essential! All of the 600+ loops are now tempo-mapped for ease of use. Choose either format at the same price!!! - Audio CD, or Akai S1000 CD-ROM. At £59.95 it's got to be one of the best value dance CD-ROMs ever. Audio CD: £59.95. CD-ROMs: only £59.95!!!



BLAGK II BLACK Volumes 1 & 2

By Steve McIntosh & Joe Charles. One of the biggest & best set of kickin' R+B samples around. All loops, Vocals,

Brass lines, & Drum hits were specially recorded. Features: Reggae, Ragga, Swing, Jazz house, Euro house, Mad house, Slo jamz, Rap, Guitar licks, Bass lines, Garage, Disco.

☆☆☆☆☆3/4" (Sound on Sound). Each volume is available on Audio CD: £59.95 each, or on Akai CD-ROM: £149 each.



BEATS 'N' THE HOOD

The ultimate beats collection for serious Hip Hop, Swing and R&B production.

Grooves with attitude and altitude to lift your music into a new dimension.

"I MUST HAVE AUDITIONED WELL OVER 10,000 DRUM LOOPS DURING MY TIME, BUT NONE AS COOL OR EFFORTLESS AS THESE" (Sound on Sound, UK. - April '96). Audio CD: £59.95



PHAT & PHUNKY

Another dynamite set from East-West. Over 2000 samples on 2 CDs. 165 grooves, each with its component samples given separately (drums &

instruments) together with the sequence data for each loop on a separate MIDI-file floppy disc (PLEASE STATE ATARI/IBM or MAC version when ordering). This arrangement gives you complete flexibility to customize all loops to any tempo or content you like. 2-CD audio set: £59.95



FUNKY ELEMENTS

Both audio CD volumes now combined into one CD-ROM (Over 500Mb / 1900 samples!) - all prog-rammed into killer patches ready to play. Fat with feel, this disc is

guaranteed to serve up that 'of' funk sound. ☆☆☆☆☆ Five Stars" (Sound on Sound). Loops, drums, horns, guitars, all you need. A best selling library. Akai, Roland or SampleCell CD-ROMs: £149.00 (or buy the 2 volumes separately on audio CD: £59.95 each)



DANCE / INDUSTRIAL 2

A 2-CD set of Loops, plus all the component percussion elements used to make them, plus their programming on an

accompanying MIDI-file floppy disk. An extremely professional approach from East-West (USA). ☆☆☆☆☆ 5 Stars" (Sound on Sound). 154 loops and 1500 samples on 2 CDs. Comes with Midifiles on floppy (state Mac or Atari). Audio CD £59.95. CD-ROM: £149



FLAMENCO SOUNDS

Recorded exclusively in Spain. A wealth of rhythms and flavours in true Catalonian style by original, respected,

Flamenco musicians (inc Ketama, Tino De Geraldo and Pedro Andrea). Guitar rhythms, Male & Female vocals, tapping feet, castanets, & Cajon rhythms. Rich assortment of peasant-style sounds to help bring out the Gipsy in your music! BPMs and key references are included where necessary. £59.95



L.A. RIOT 3

2-CD Set: 1000's of Hip Hop & R&B samples. • Mad-hard construction kits • Bomb-ass breaks • Bases • Loops • Horns • Scratches • Dope FX & Squeales • Crazy guitars • Vocals • Synths • Piano • Rare

groove elements. Every 5 construction kits are same BPM & key for mixing & matching. Fresh, well-organised and a true goldmine for the serious producer. "Sheer authenticity & attitude... An all-American urban soundscape of immense realism... A hard act to follow... Quite simply a classic. ☆☆☆☆☆ 5 Stars" (Sound on Sound, UK). 2-CD audio set: £59.95



EUROTECH

5 stars... A hit release" (Sound on Sound magazine). Specialising in Euro-dance/ Europop. This style of music has dominated the charts all

over Europe over the last few years & seems set to continue to. A very commercially attractive set of sounds, and all original. The loops are fast (192 of them are over 140bpm!). A nice balance of experimental & straight. All bpm's given. A hot & hard techno resource. Audio CD: £59.95. AKAI CD-ROM: £149.00



ZERO-G TECHNORANCE

A massive library of classic techno synth & FX samples, each presented with a short demo to show its effectiveness.

"One of the world's very best techno sample CDs, having achieved 5-STAR reviews in USA, Germany & UK. Audio CD: £59.95. PC 'WAV' CD-ROM: £29.95. Also available on Akai S3000, Roland or SampleCell CD-ROMs for only £99.00.



DEF HOUSE

Brand New! Dedicated specifically to House music production, this high-profile stromer from Universal Sound Bank in

France hits its target square on. Focussing mainly on loops, you'll find it delivers tons of top-class material for all kinds of house music. We expect this one to enter the hall of fame! DEFINITELY not to be missed. Available NOW in four formats. Audio CD: £59.95. or choose a version formatted specifically for Akai, Roland, or Ensoniq samplers - £149.00)



XX-LARGE EXTREME

With its latest production, the XX-Large Team presents the biggest Dance Drumloops collection worldwide!

1750 absolute new Stereo Drumloops. House, Jungle, Rap, Hip-Hop. All of the loops are tuned accurately on beats per minute and arranged in groups from 80 - 180 bpm. In addition, more than 100 current Dance Sounds: House Organs, Jungle Bases,.... You can't live without it!!! Audio CD: £59.95. CD-ROM: £149.00



VOCAL BYTES VOLUMES 1 & 2

Volume 1 has OVER 1000 VOCAL GEMS. PRODUCED BY HIT U.S. REMIXER E.K.O. & MIDIMARK PRODUCTIONS in the USA. FOR HOUSE, TRANCE,

RAP, AND DANCE • ALL ORIGINAL • ULTRA CLEAN TO SUPER NASTY Audio CD: £59.95. Volume 2 features 12 more singers: soulful, funky, crazy Vocoder samples from the oldskool unit, the Roland RVC-300. New Talk Box samples from the Heil talk box. Well over 1,000 original samples. No royalties to pay! Audio CD: £59.95



TECHNO TOOLBOX

Features the sample libraries of Germany's most respected Techno producers including Eye O, Harthouse/ Ralf

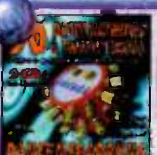
Hildenbeutel, Jam El Mar (Jam & Spoon, Dance 2 Trance), Cet Merlin (Spacefrog, Energised), Genlog, and more. Coveted key sounds of many of the world's top techno producers: custom drum, synth, bass, loop samples. "Within the first 3 minutes of this CD I had goosepimples" (Frontpage Mag, Germany). Audio CD: £59.95.



VINYLISTICS 2

R&B/Jungle/Trip Hop - whatever the trendmakers call it - it all comes down to the Right Flavor of the Grooves. Many future

styles will probably rely on breaks like this. Tons of Grooves, Hits & Loops to give you a unique feel for Raregrooves. Produced by PHAT FABE aka Fabian Thorsson (Nene Cherry & Shabba Ranks). Tempo-maps provided (plus MIDI-files on CD-ROM version). Audio CD: £59.95. CD-ROM (incl audio CD): £149.



DANCE MEGADRUMS

4500 well-organised samples. 90 complete and different Drum machines as well as ultra rare analogue Rythm-boxes

with several sound variations. Also 1500 latest dance Drumsounds (BDs, SDs, Hats, Percs, Analogue Drums and Perc). 400 Mb ROM part. All Drum machines laid out in keygroups, ready to play. Available as Double-CDs mixed mode Audio/ Akai CD-ROM. Only £59.95!!



ON A JAZZ TIP

Hip Hop In Full Swing! Stomping grooves, licks and loops, played in predetermined keys and

tempo to be used inter-actively: Bass, Guitar, Keys, Horns, Drums and Perc., Jazz pads, riffs and chords. Perfect for all HipHop, Rap, Soul, TripHop, Acid Jazz and Funky flavors. For any music project that needs a sting, swing or that Jazz Thing. Produced and played by musicians who love and respect music. Audio CD: £59.95



LOOPISMS AWE-32 COMPILATION

Every loop & sample from D-Zone's Loopisms series volumes 1 to 6, 4850 loops & samples for

Jungle/house/rap. PC CD-ROM for use with AWE-32 Soundblaster soundcard. £29.95. Also available: "LOOPISMS WAV COMPILATION" - the same but in straight WAV format for use with any PC software or soundcards. £29.95. Many other D-Zone titles available - call for details! N.B. D-Zone have asked us to point out that the samples on D-Zone titles are not all licensed for use in your commercial music releases



SAMPLING SOUND SYSTEM

Advance news of a new series of smaller libraries from Sounds Good in Sweden. Each disc in the series will be mixed-mode Audio / PC WAV / Mac AIFF. Anticipated pricing: £19.95 each, with

Akai CD-ROM versions also becoming available for £39.95 each. Titles include Drum Tools (Laidback, Brushed, & Popped), Country, Roots Reggae, On The Latin Trip, G-Soul, Trippy, House, and more! More news very soon!!



XX-LARGE 1500 DRUMLOOPS

One of the largest selections of dance grooves available on a single CD. From German developer Best Service and already a classic! 1500

hypnotic loops, in groups of 80, 85, 90, 95, 100, 105, 110, 115, 120, 125 and 130 bpm!! Workaholics take note this is your basic tool - styles include hip hop, rap, hardcore, house, techno, all in stereo - 1500 happening loops, exactly tuned and carefully sorted. An exclusive tuning chart lets you tune any loop to the exact bpm you need - FAST! The collection is available on audio CD (£59.95) or on CD-Rom for Akai, Ensoniq & Samplecell samplers (CD-ROM, £149)



SLY DUNBAR Reggae Drumplash

The World's No.1 Reggae drummer & Producer (half of Riddim Twins Sly and Robbie). There's nothing else like this on the

market! • Reggae • Ska • Dancehall • Bhangra. Comes with MIDI-files on floppy disk for the loops. READ THE FANTASTIC REVIEWS - undisputably the NUMBER ONE sample CD on the market for reggae production. Audio CD plus MIDI-file floppy disk (please state Mac, Atari or PC). £59.95



LOOPISMS DANCE ZONE

New from D-ZONE (UK). Features 125 Korg Prophecy samples plus slammn extended loops.

Each sample is provided in 3 formats: Audio, AWE-32, and WAV. Also features Apogee's great game "RISE of the TRIADS" for PC plus other demos of PC software. Only £12.95!! N.B. D-Zone have asked us to point out that the samples on D-Zone titles are not all licensed for use in your commercial music releases



TIME+SPACE No.1 Source for Samples

SAMPLEHEADS • SOUNDS GOOD • SPECTRASONICS • TIME+SPACE • VOICE CRYSTAL • WC MUSIC RESEARCH • ETC...

MISC.

PERCUSSION

ETHNIC / WORLD

CLASSICAL



FUNKY ASS LOOPS

Produced by the New Power Generation (who do all the drums & programming for Prince). "Seriously HOT! 5 stars for content value and sound quality" (Keyboard, USA). This super-funky disc will prove to be the inspiration for many bits. All grooves played live - but not just with traditional drums - you won't believe the sounds used, and you get all the separate component samples as well. Audio CD: £59.95. CD-ROM: £149



PERCUSSION SLAM

Hot new disc from Invasion (USA), comes with loops, samples and standard MIDI-files. Multiple layers of percussion instruments were played live and the MIDI-files were created directly from the loops. Killer material for Dance, Pop, Latin, R&B, HipHop, etc. Enhanced construction kit format includes: multiple tempos of each groove, alternate instrument mixes, files, MIDI-files & samples. Gives you the power to quickly create and modify tracks. Performed by Rafael Padilla and meticulously recorded at Mama Jo's Studios. Audio CD: £59.95 Akai CD-ROM: £149.00



HEART OF ASIA

This product got a 5 star review in every magazine in UK, US & Germany. One of the most comprehensive collections of Asian instruments & phrases. Digitally recorded in the field, this remarkable 2-disc set includes over 1 gigabyte of exotic Chinese, Malay, Nepalese, Tibetan Javanese, Hindi, Sanskrit, Mandarin, Thai & Indian samples, including instruments, phrases, opera divas, chants, speech, gamelan orchestra, monks. Perfect for your next film score, album or remix project. Audio 2-CD set: £79.95. CD-ROM 2CD set: £299.00



PETER SIEDLACZEK'S ADVANCED ORCHESTRA

Introducing a new generation of Orchestral samples for the electronic musician. Short & Long notes, played in two dynamic degrees for every instrument ... trills, grace notes, quick runs, arpeggios, crescendi, glissandi and more! The complete Symphony Orchestra at your fingertips? Peter Siedlaczek's Advanced Orchestra gives you the touch! Available late June. Call for more details.



XX-LARGE THE KILLER

Over 100 minutes (different samples on L & R tracks). 750 synths, chords, organs, voices, pads. Techno/ trance hooks. 250 Bases, 750 Drumloops (80% in stereo, tuned and grouped into BPMs from 130-200 BPM). Analog Drum Machines (adjusted to every possible variation). "Really good value ☆☆☆☆ 5 stars" (Sound on Sound). Audio CD: £59.95. CD-ROMs: £149.00



CARMICHAEL'S CRUNCHY NUT LOOPS

Crunchy Nut Loops - A collection of Phattening Grooves from Drummer Jim Carmichael (Freak Power, K-Creative etc.), played with v-be in mind, these loops are encrusted with funky substance and fortified with extra compression to start your day in the positive way. Audio CD: £59.95



HEART OF AFRICA VOLUMES 1 & 2

Vol.1 is a 2-CD set of phrases & instruments from all over African continent. Following the success of Heart of Asia, this sequel was a smash hit even before it was released... Audio CDs: £79.95 CD-ROMs: £199. Heart of Africa Vol.2 has all new tribal phrases, vocals, performances & SFX from a huge tribal competition in Kenya. This material is very primitive & really enhances the volume 1 samples. Audio CD: £59.95 CD-ROMs: £149



Peter Siedlaczek's ORCHESTRA

One of our most popular products An entire orchestra at your fingertips, mostly playing tutti. The string sections are perfect for those lush string pads & lines and eleven other categories are provided. Aural dimension & realism at an affordable price. Audio CD: £59.95. CD-ROMs: £149.00



LOOP SOUP

This 2-CD package contains ALL the rhythm loops from all the great AMG dance CDs - (from Norman Cook, Megabass Remix!, Pascal Gabriel, Coldcut, and from both of the AMG "Now!" CDs). A monster collection by some of the UK's best dance producers. Audio 2-CD set: £59.95



DNA BEAT BLOCKS FEATURING ARMANDO BORG

A professional library of percussion rhythms on CD. Key features are Incredible musical versatility, fantastic variety, masterful playing, over 500 percussion loops with accompanying MIDI-files on floppy disk (created by analysing Armando's playing), with bpm's from 50 to 170. Audio CD: £59.95 (please state Atari, PC or Mac for the floppy disk)



SUPREME BEATS

The most comprehensive library of percussion grooves & instruments ever developed, featuring percussionists from all over the world. This highly acclaimed library is now available on 2 CD-ROMs: 1: AFRICAN/ CONTEMPORARY & 2: WORLD/DANCE. "A feast of human feel, energy & emotion... a knockout... Supreme Beats is a winner. 20 stars out of 20." (Keyboard, USA) Audio Vols.1-4 (4-CD boxed set): £199. Audio Vol. 5 (NEW!): £59.95. CD-ROM Vol.1: £149, Vol.2: £149 (CD-ROM versions include all the sounds from Vols.1-5 audio CDs)



Peter Siedlaczek's ORCHESTRAL COLOURS

Siedlaczek's name means pure class. Rich & evocative orchestral samples to bring colour & inspiration to your music • Hits & Finales • Moods & Timbres • Orchestral layers, chords, arpeggios, tremolos & Glissandos • Riffs & Sequences. A film composers dream. "Quality is immaculate. You've never been able to access such usable orchestral realism so cheaply before. ☆☆☆☆ 5 stars" (Sound on Sound). Audio CD: £59.95. CD-ROMs: £149



HALLELUJAH

WORLD CHOIRS & VOICES from many countries and cultures. Produced by Peter Siedlaczek/ B. Jojic/ K.Kandler. • Dance & Pop Choirs • Gregorian/Monk Choirs • Gospel Choir • Background choirs • Classic soloists • Ragamuffin • Choir of Nuns • Vocal hooks • Total fascination! ☆☆☆☆ 5-stars" (Sound on Sound Magazine, UK). Audio CD: £59.95 CD-ROM: £149.



GOTA YASHIKI'S GROOVE ACTIVATOR

Drum & Percussion grooves, chops & fills. Gota's work with the likes of Soul II Soul, Bomb The Bass, & Simply Red is already part of pop folklore. His ability to make machines groove is legendary. This CD is very different, and a guaranteed source of inspiration. Quality, originality and creativity of the first order. Audio CD: £59.95



NEW WORLD ORDER 1 & 2

Journey #1: Fantastic Collection of Ethnic & Percussion loops, Tribal Rhythms, Ritual, Djembe, Talking Drums, Catyppo. Reggae, Haitian Yooodoo, Afro-Cuban, Latin Funk, Tabla Loops, Indian Ensemble, Rhythms from Japan, Ireland, Texas & New Orleans. Journey #2: Extensive performances on a multitude of acoustic instruments from all over the World. Loads of seldom heard Folk/Historical instruments, plus vocals. Loops, Riffs, Slides, Chords, Scales etc. All sounds are original recordings. Audio CDs: £59.95 each. CD-ROM (Akai): £149 each



MIROSLAV VITOUS' SYMPHONIC ORCHESTRA

REALISM! An orchestral sample library that even top conductors are proud to own. Two years in the making, FIVE CD-ROMs exploring every subtle nuance. Very expensive, but of the highest quality. See catalog for full details, or call to discuss. We highly recommend a full demo at our private CD-ROM auditioning suite. Many film composers have bought this library and been delighted. A mini version is also available on a single CD-ROM.



ALPHADANCE II

2 CDs featuring 90 minutes of audio & 300Mb CD-ROM section - all for only £59.95. House & techno organs, Strings, Sequencer lines, Combination Pads. Attack Banks, Vocals, Acoustic Percussion Loops & Drumloops, Rave Bases (multisampled, with short demos), Dirty Loops, Lead & Hook Synths, Transformer sounds, Synth Drums. The CD-ROM section has everything mapped, in keygroups, ready looped, ready for takeoff. 2 CD set including 300Mb Akai CD-ROM: £59.95



SMOKIN' BY TONY MASON

New from AMG: seventy-three minutes of specially recorded grooves with a strong dance flavour. All samples have undergone analogue processing to give an authentic 'rare' valve sound. Smokin' was recorded in Trinidad and the UK by much sought after session drummer, Tony Mason (Tony has taken care of drums for Al Green, Incognito, Fine Young Cannibals and George Michael). The ideal drum loop CD for anyone looking for great sounding beats with attitude. STRONG DANCE FLAVOUR WITH A LAID BACK RHYTHM AND BLUES ATTITUDE. Audio CD: £59.95



ZERO-G ETHNIC 1 & 2

Another exotic set of samples, by the Paradise Organisation who roamed Africa, India and the far east for 2 years in pursuit of material for these two discs. All samples were recorded 'in the field', and it's a dynamite collection. An enormous collection of ethnic vocals, rhythms and instrument riffs. Well suited to dance music production. Audio CDs (vols 1 & 2): £59.95 each. Akai CD-ROM (includes both volumes 1 & 2): £149. (Volume 1 is also available formatted specifically for Roland 700 Series: £99).



PETER SIEDLACZEK'S CLASSICAL CHOIRS

From Czechoslovakia comes an incredibly haunting and inspiring set of vocal sounds. Awesome vocal power. Truly an absolute masterpiece. "☆☆☆☆☆ Five Stars" (Sound on Sound magazine). Audio CD: £59.95. CD-ROM: £149.00



OVERDUB SENSATION

House & Acid Jazz library. 1200 sounds from the private library of DJ and producer 'MOUSSE T' (remixer for such artists as Shabba Ranks and Inner Circle). Several versions of each loop, etc. An extremely flexible tool for remix work. Audio CD: £59.95



PETER ERSKINE'S LIVING DRUMS

One of the world's most famous drummers at your fingertips! Thousands of carefully recorded drum performances, played by Peter from his collection of world class drum sets. Immaculately recorded and beautifully organised. Great for jazz, and in fact all styles. Audio CD: £59.95. CD-ROM: £149.00



VINDALOOPS

By Hoggie & The Turbinator at Nu-Groove Productions. The definitive Bhangra Sample CD. A spicy concoction of Indian percussion loops, single shot hits and authentic Bhangra instrumentation/FX. Mostly in stereo. Loops grouped in "kits" of similar sounds and tempos. "Never before have so many Bhangra ingredients been so accessible... Feel the feel!" ☆☆☆☆ 1/2 (Sound on Sound). Audio CD: £59.95



CLASSICAL WILD TAKES

In the same vein as "Orchestral Colours" but perhaps more FX orientated, this is another superb selection of orchestral stings, phrases and orchestral effects samples for use in film, broadcast and any music requiring that big, expensive and professional orchestral sound. From a different German developer, but, like "Orchestral Colours" this CD is also superbly recorded and presented. Akai CD-ROM: £149.00

SYNTH & FX



AMBIENT VOLUMES 1 & 2

By IAN BODDY This collection achieved a 5 star five-star review in both Sound on Sound (UK) & Keyboard (USA). Comes very highly recommended. A wealth of synth FX, atmospheres, instruments & textures from one of the UK's leading synthesists. Audio CDs: £59.95 each; PC WAV CD-ROMs: £29.95 each; Akai CD-ROM (Both vols. on one CD-ROM/500Mb): only £149.00



VINCE CLARKE

'Lucky Bastard' "One hell of a useful CD. 9 out of 10" (Future Music). A huge set of sequences

specially created by Vince Clarke using his massive collection of classic analogue synths. Fast creative sampling. Audio CD: £59.95



ANALOGUE DREAMS

There are over 3000 analogue synthesized samples on this 2-CD package. The list of rare synths & analog drum machines used looks like a museum inventory: Dreams, squelches, or mind-blowing effects, there's a synth sound here to fit the bill. Get the CD-ROM version and you'll have everything sampled, looped and laid out in superb performance patches. Audio 2-CD set: £59.95. CD-ROM versions: £149.00



DISTORTED REALITY

NEW RELEASE - but already getting 5-star reviews!!! Cutting Edge Textures, FX and Loops, exploring an experimental world of extraordinary colours. From 3-dimensional Harmonic Sound Morphing, to trance-inducing ambiences, enormous modular drones & astoundingly liminal distortions. An essential resource for the producer, composer or sound designer in search of unique sound. You simply have to hear these sounds to believe them, and we can't praise this product highly enough. Audio CD: £59.95. CD-ROMs: £149



ANALOG TO DIGITAL and A2D2

Unique sounds, layers, textures, FX from the worlds classic vintage synths. Ambient, techno, film, rock, whatever - these 2 discs will inspire you with fresh sounds of immense power or subtlety. Raved about by Dance producers for their usability and versatility for everything from Ambient/Trance to the hardest of Hardcore Techno. Audio CDs: £59.95 each. PC WAV CD-ROMs: £29.95 each (Akai CD-ROM coming soon: £149.00. Includes both volumes)



METHODS OF MAYHEM

Brutal & sweet sampling for Industrial/Intelli-gen Techno, Goth Techno or anything in need of an Experimental Edge. Uniquely twisted, bizarre and savage stuff. Drum-, Bass-, Synth-, FX-, Vocoder-, Feedback- & Noise-loops. Grinding Guitar Riffs & Feedback. Synth FXs, Sweeps, Basses, etc. Creamy & Cheesy Sound FX, Music FX & Voices. Over 1000 Samples. A unique collection. Audio CD: £59.95



ROBOTS & COMPUTERS

The electronic invasion of machines & computer. Unique starting material for any fan of electronic and Kraftwerk. Fantastic studio production tool. Hundreds of electric Synthesizer & Drumsounds coming from collector's stock. Rhythm-sequences and Drumloops, extensive Vocoder section, language computer-rarities. A real treasure trove. 1500 analogue & digital specialities. From the past to the future. Audio CD: £59.95. CD-ROM: £149.00



Global Trance Mission

Specially created dance samples with the emphasis firmly on analogue synthesis. Includes: Synth sequences, Ambient Pads, specially processed drumloops, Synths & synth FX, Atmospheric sounds, Basses, Sung vocals & dialogue, FX, and amazing ethnic sounds resulting in a unique and highly creative sample library. SPECIALLY CREATED BY GARRY HUGHES AND NICK FISHER - IDEAL FOR TRANCE, AMBIENT & RAVE! THESE ARE ARE INSPIRATIONAL, CUTTING EDGE ORGANIC SOUNDS. * CD 1 Audio: £49.95 * CD 2 Audio: £49.95 * Both: £79.95

INSTRUMENTS



STEVE STEVENS GUITAR SAMPLES

Renowned for his guitar work with Billy Idol, Steve delivers here all his famous trademark sounds, plus awesome FX. The majority of sounds on the CD are multi-sampled and have been thoroughly tested for playability on a keyboard. "Raw textures that cut, pummel and soar. Even the acoustic samples have attitude. The effects are killer" (Keyboard, USA). "A beautifully recorded and very complete package" (The Mix, UK). Audio CD: £59.95. CD-ROM: £149.00



BASS LEGENDS

Earth-shaking bass grooves & samples from 3 of the world's greatest bassists: Marcus Miller, John Patitucci & Abe Laboriel. All grooves are given in every key & in multiple tempos. CD-ROM versions also include an extravagant variety of multisamples of instruments from the players' private collections. Audio CD: £59.95. CD-ROM: £199.00



FUNK GUITAR

by VLAD NASLAS. The Definitive Sample CD for Classic Dance Guitar Rhythms and FX. ☆☆☆☆ "5 stars" (Sound on Sound magazine). • Styles from cool & slicky to hot & bothered • ALL ORIGINAL • 1700 SAMPLES • Raw & authentic • Quite simply ESSENTIAL for anyone in a funk groove. Audio CD: £59.95. CD-ROMs: £149.00



PHANTOM HORNS

"5 stars" (Sound on Sound magazine). The world's best and classiest horn sample library featuring the dynamic sounds of the UK's most in-demand horn section. John Thirkell & Gary Barnacle (whose album credits read like a who's who of megastars). Packed with riffs, hits, swells and all the other horn elements you'll need to add real brass impact to your tracks. Audio CD: £59.95



CATHEDRAL PIPE ORGAN

Brand new from Britain in the USA (twice brought you the Spectrasonics Library), this meticulously recorded GORGEOUS German organ features all manuals and bass pedals with numerous register combinations. It's all here from the full-throttle Great Organ to the sweet, singing quality of the Wooden Pipes. Plus you will get capital Doves, Coupled Flutes, Swells, and other registers. Fascinating historical recordings at Church atmospheres and the finishing touch: The definitive Cathedral Pipe Organ (Cathedral not included) CD-ROM: £149.00 * Audio CD: £59.95



FUNK BASS

From the producer/performer of 'Funk Guitar' comes a unique product. This is a 2-CD package of incredibly funky bass riffs & loops covering all styles. PLUS you get multisamples and FX. Highly rated by the press. Audio 2-CD set: £59.95 (CD-ROM coming soon: £149.00)



DRUM TOOLS

LIVE Rock & Pop loops. Very flexible. Tempo Sets. Inspiration Grooves & Individual Hits to allow flow and natural feel. 4/4 Straight, 4/4 Shuffled, 6/8, Blues, Brush and a Big Section of Inspiration Grooves. Full Loops (BD, SD & Hat/Ride), Fills, Separate Hat & Ride Loops, Perc Loops & Flams. Produced by the Roxette team. Audio CD: £59.95. Akai CD-ROM: £149.00



HANS ZIMMER GUITARS

Released by SPECTRASONICS in the USA. Internationally acclaimed film composer Hans Zimmer releases sounds from his private sample library. Powerful guitar textures, incredibly detailed and expressive, using up to 12-way velocity switching! Also includes massive rock guitar grooves each presented in Spectrasonics' new Chromazones™ concept that works in every key and at various tempos. This library contributed to Hans' rich sonic approach in many films incl. The Lion King, Cool Bunnings, True Romance, etc. A must-have for any serious sample collector. Audio CD: £59.95. CD-ROMs: £149

LISTEN BEFORE YOU BUY

Sample CD Jukeboxes! Listen to our CDs at Pro-Audio dealers nationwide...

The dealers listed below have demonstrated their commitment to keep your sampler fuelled with inspiring new sounds! Time+Space distribute only the highest quality products available, from the world's best developers, and we offer UN-BIASED and helpful advice to mail-order customers. However, you have the opportunity to visit one of the following locations and listen to the entire contents of the products that interest you most - there you'll find the world's top 100 audio sampling CDs in one of our Sony 100-CD Sample-CD Jukeboxes.



JUKEBOXES already installed at:

- Soho Soundhouse (2 jukeboxes), 114 Charing Cross Rd, LONDON W1, Tel: 0171-379 5148;
- Music Lab, 72-76 Eversholt St, LONDON, Tel: 0171-388 5392;
- Project Music, 433 Gt West Rd, HOUNSLOW, Middx, Tel: 0181-570 4444;
- C.T.I., Fumbally Court, Fumbally Lane, DUBLIN 8, Ireland, Tel: Dublin 45 45 400;
- Music Village, 10 High Rd, Chadwell Heath, ROMFORD, Essex, Tel: 0181-598 9506;
- Sound Control, 61 Jamaica St, GLASGOW, Scotland, Tel: 0141-204 0322;
- Sound Control, 19-21 St Marys Street, EDINBURGH, EH1 1TA, Scotland, Tel: 0131-557 3986;
- Sound Control, 10 Moseley St, NEWCASTLE, Tel: 0191-232 4175;
- Sound Control, Unit 5, The Red Rose Centre, Regent Rd, SALFORD, M5 3GR, Tel: 0161-877 6262;
- Carlsbro, 22 Humberstone Rd, LEICESTER, Tel: 0116-262 4183;
- Carlsbro, 11-13 Hockley, NOTTINGHAM, Tel: 0115-959 1888;
- Carlsbro, 720 City Road, SHEFFIELD, S2 1GJ, Tel: 0114-264 0000;
- Dawsons Music, 65 Sankey St, WARRINGTON, Cheshire, Tel: 01925-632591;
- X Music, 20 Cotham Hill, Cotham, BRISTOL, BS6 6LF, Tel: 01179-734734;
- Emis, The Old School House, Cossham St, Mangotsfield, BRISTOL, BS17 3EN, Tel: 0117-956 1855;
- Andertons, 58/59 Woodbridge Rd, BUILDFORD, Surrey, Tel: 01483-38212;
- A1 Music, 88 Oxford St, MANCHESTER, Tel: 0161-236 0340;
- Musical Exchanges, 89 Old Snow Hill, BIRMINGHAM, Tel: 0121-236 7544;
- Time+Space, 3 Churchgates, The Wilderness, BERKHAMSTED, Herts, HP4 2UB (appointment system operating for jukebox & CD-ROM demo suite: Tel: 01442-870681 to book some hours!)

FREE CATALOGUE

Call for your free copy - 72 colour pages featuring 100's of CDs & CD-ROMs! Or use the INTERNET to take a detailed look at what's available RIGHT NOW by logging on to our web site at: <http://www.timespace.com>

FREE CD WITH EACH ORDER

Each time you order from Time+Space you'll receive one free showcase CD from one of the following sound developers: Time+Space, Sounds Good, Spectrasonics, Ilio Entertainments, Best Service or AMG. (*Offer limited to one of each per household).



FAST INTERNATIONAL MAIL ORDER

REMEMBER TO ASK FOR YOUR FREE COLOUR CATALOGUE! ALL PRICES INCLUDE VAT & UK POSTAGE. We operate a FAST international mail-order service - delivery is usually within 48 hours when you pay by credit card (VISA/ MASTERCARD/ AMEX/ SWITCH), postal orders, bank draft, or building soc. cheque (PLEASE DO NOT SEND CASH BY POST). TO ORDER:

TEL 01442 870681 • FAX 01442 877266

INTERNET... <http://www.timespace.com> • e-Mail: sales@timespace.com

If paying by personal cheque please allow up to 7 working days (!) for clearance through the bank. Make cheques/PDs payable to "TIME+SPACE" and post to:

TIME+SPACE • P.O. BOX 306 • BERKHAMSTED HERTS • HP4 3EP • ENGLAND

International orders: please add £5 airmail or £10 express airmail (plus 17.5% VAT if you live in the EC). EC countries: please give us your international VAT number if you have one. Sales office open: 09.30-18.00, Mon-Fri. Prices are subject to change without notice. E&OE. Terms & conditions of sale: All contracts in respect of goods between the Company and the Purchaser are subject to the Company's standard conditions of sale, a copy of which is available on request.

Dealer Enquiries Invited

TIME+SPACE
THE LEADING EDGE OF SAMPLING TECHNOLOGY
e-Mail: info@timespace.com
Internet: <http://www.timespace.com>



1235, and features walls almost four feet thick.

In the spacious former hayloft, above what once were the stables, we settle in Shaw's recording studio with some tea. A Crystal 16:4:2 desk, two Alesis ADATs, a Roland W30 and SH101, Korg DW8000 and 01R/W contrast quaintly with the age-old woodwork, as well as a collection of wooden flutes, and a little altar featuring rattles, shells, bird bones and all sorts of other natural artefacts. Shaw himself is an easy-going, affable person, who speaks with quiet confidence and appears to have a relaxed live-and-let-live attitude.

Occasionally, however, another side of his character shows — a determination which surely must have helped him get to where he is now. He's particularly outspoken about the dream of so many musicians — to be signed by a record company. "The biggest trap in the world," he fumes. "It's

At home with...

Nigel Shaw isn't signed to a record company, yet sales from the multiple albums he's produced in his home studio enable him to make a good living from his talents. PAUL TINGEN talks to him about the business of independent music.

Nigel Shaw

fatal, especially when you're young and just starting out. Looking for a company or person to rescue you eats up lots of time and energy that could be spent producing brilliant pieces of work. And I've met very few signed people who've had a really good time with record companies. For almost everyone it's a compromise, and it's the element of compromise that I find distasteful. How can you compromise with your own creativity? Musicians should empower themselves and do their own thing, and stop other people feeding off what they do. If I can get my stuff out and support myself financially from my music, everyone can do it. It's like the early punk attitude: anyone can do anything, regardless of what talent they have. It's not about having a specific skill or technique, it's just about belief: do you believe in yourself enough so that you know you can do it?"

For some, this may already be a challenging question too close for comfort. Yet Shaw isn't finished with his sermon: "There's a key issue at stake here. It's not even a matter of whether musicians are capable of doing it or whether they believe in themselves enough, it's often a matter of whether they're willing to do it. Many musicians think it's beneath them to sell their own stuff, that it somehow degrades what they're doing. To me, that's totally weird. How can it possibly be degrading to take your own stuff out to people? In fact, you're actually the best person to stand behind your work. To me, the act of selling your music is no different than producing the music in the first place. You're in a different place when you're doing it, but the energy is the

In a stunningly beautiful, 13th century Grade 2 listed building right in the middle of Dartmoor lives a musician who has resisted the traditional record company route to making money from music, and shown a new way forward for like-minded others. Impressively, he appears to have it all: still only 34 years old, he makes a comfortable living from selling and performing his own music, lives in idyllic surroundings with his wife-cum-musical partner, plus two children, and enjoys the benefits of a modest home recording studio. No record or publishing company is involved — no distributors, no middle men, no managers. Everything is done by the couple in-house: his many solo albums and collaborations, and her albums and prints, are sold either by mail order, or via 'new age' shops, and in some cases via regular record shops. The dubious machinations of the music industry are nowhere in sight. As a result Nigel Shaw and partner Carolyn Hillyer retain complete control over their music, their careers, and their lives.

PHILOSOPHY

So how does he do it? And what, exactly, does he do? On a grey and misty day earlier this year, I made the long trek from London to Dartmoor to find out. I marvelled at the remote and pastoral location of Shaw's home, a beautiful Devonshire longhouse, the central part of which was built in

MUSIC LAB

Massive Summer Clearout!

We're piled high with bargains but it's first come, first served

All prices include VAT

| Item | Condition | Price | Item | Condition | Price | Item | Condition | Price |
|-----------------------------------|-----------|-------|---------------------------------|-----------|-------|--------------------------------|-----------|-------|
| Lexicon 224 | E/H | £1800 | Topaz Meterbridge 24 | New | £575 | Yamaha MT8X 8ch Multitracker | E/D | £800 |
| Joemeek Compressor | E/D | £900 | HK LS0200 Speakers | New | £100 | Signex Bantam Patch Bay | New | £150 |
| LA Audio Classic | E/D | £625 | Made To Fade GM25 DJ Mixer | New | £140 | Denon DRM44HX 3Head Cassette | E/D | £100 |
| BEL BC3 24ch Noise Reduction | E/H | £600 | Soundcraft Live 24 Mixer | New | £1300 | DBX 290 Digital Reverb | New | £200 |
| BBE 822A Sonic Maximiser | E/D | £250 | Spirit Lite Mixer | New | £220 | Audio Tech Hand Held Radio Mic | New | £400 |
| Quad 405II Amplifier | E/H | £230 | JBL 4206 Monitors | New | £225 | Sony DTC670 DAT | E/D | £400 |
| QSC 1400 Amplifier | E/H | £300 | Fostex 820 Mixer | New | £1500 | Peavey Analogue Filter | New | £250 |
| Alesis SR16 Drum Machine | E/H | £150 | Kurzweil K2000R Sampler | E/D | £1800 | Spirit Folio 12/2 Rack Mixer | E/D | £325 |
| Roland TR707 Drum Machine | E/H | £350 | H/W MX8 DJ Mixer | E/D | £100 | Fostex D5 DAT | E/D | £749 |
| Roland TR727 Drum Machine | E/H | £300 | Fender Bassman 59 Combo | New | £325 | Alesis Monitor 2 | E/D | £575 |
| Roland TR505 Drum Machine | E/H | £200 | Yamaha QY8 Sequencer | New | £180 | KRK 6000 Monitors | E/D | £550 |
| Sennheiser Radio Mic (lapel) | E/H | £400 | Yamaha GW10 Guitar FX | New | £200 | KRK 7000 Monitors | E/D | £900 |
| Sennheiser Radio Mic (handheld) | E/H | £400 | Roland GI10 + MIDI Pickup | New | £425 | Alesis RA100 Amp | E/D | £250 |
| Urei 964 Digital Mtronome | E/H | XXX | Samson Servo 240 Amp | E/D | £225 | EMU ESI32 SCSI Sampler | E/D | £1000 |
| EMU Performance 1+ | E/D | £150 | Samson Servo 150 Amp | E/D | £150 | Sony SV09620 Pro SVHS | E/D | £2200 |
| Mackie 1202 Mixer | E/D | £230 | Samson E62 2x31 Band EQ | New | £230 | Tascam M2600 16/8 Mixer | E/D | £1700 |
| Acoustic Energy AE1 Monitors | E/H | £400 | Samson E30 1x30 Band EQ | New | £230 | Cubase Windows | E/D | £150 |
| Sennheiser MKH20 Omni Condenser | E/H | £600 | Roland MS1 Sampler | New | £290 | MOTU Freestyle | New | £150 |
| EMU Darwin + 1GB HD | New | £2400 | Peavey DP8MC8 Mother Keyboard | New | £1200 | Cubase Compact PC | E/D | £150 |
| Voce Micro B2 Organ Module | New | £320 | Steinberg Pro24 Atari | New | £25 | Roland MSE1 | New | £400 |
| Alesis S4 Quadrasynth Module | New | £600 | Tascam DX4D 4ch Noise Reduction | E/H | £100 | Roland MDC1 | New | £400 |
| Roland MT32 Module | E/H | £150 | Korg M1R M1 Module | E/H | £600 | EMU Vintage Keys | New | £599 |
| Yamaha QX5 Sequencer | E/H | £150 | Roland D550 D50 Module | E/H | £400 | Cubase Audio Version 2 MAC | New | £350 |
| Behringer Edison Stereo Simulator | New | £150 | Roland U220 Module | E/H | £300 | Alesis Monitor 1 | E/D | £250 |
| EMU Proteus FX | New | £400 | Denon DRM710 Cassette | E/H | £150 | Sony DTC60ES DAT | E/D | £575 |
| Aphex 104 C2 Big Bottom | New | £220 | Peavey Autograph 2 | New | £350 | AKG C1000 Mic | E/D | £179 |
| Aphex 107 Tubessence Mic Amp | New | £400 | Symetrix 488 8 ch ADAT Comp | New | £400 | AKAI 2Mb Board for S2800/3000 | New | £150 |
| Arcus Plus 24Bit Colour Scanner | S/H | £550 | Fostex 350 Mixer | S/H | £100 | Soundtracs Solo MIDI 24 | E/D | £3600 |
| Mackie CR1604 Mixer | E/H | £550 | Deep Bass 9 Module | New | £340 | Ensoniq DP4 4ch FX | E/D | £900 |
| Tannoy PBM5 Monitors | E/D | £190 | GEM Powercase 16 Powered mixer | New | £900 | Yamaha REV7 FX | E/H | £600 |
| Allen & Heath GS1 Mixer | New | £699 | Samson MPL2242 Mixer | New | £549 | Summit PEQ100 EQ | S/H | £900 |

E/H = Ex Hire - E/D = Ex Demonstration - S/H = Second Hand - New = New

Phone: 0171 388 5392 • Fax: 0171 388 1953

72-74 Eversholt Street, London NW1 1BY. Opposite Euston Station

All major credit cards accepted

Nigel Shaw



The Seventh Wave studio gear, from left to right: (on stands) the Korg DW8000 and Roland W30; (in flight case) Alesis Quadraverb multi-effects, Korg O1R/W synth, JBL monitors, Alesis Microverb II (concealed behind Beyer MC834 mic), Yamaha GC2020 compressor, XRI Systems synchroniser, Ibanez SDR1000 delay, 3G Crystal mixer, Sennheiser HD480 headphones (hanging from beam), Denon tape deck, Sony DTC690 DAT. The Alesis ADAT and ADAT XT are out of sight.

► same: you're putting out something of yourself. And it teaches you about personal responsibility. I think that taking more personal responsibility is the way the whole planet is going, and wouldn't it be amazing if everybody was responsible for their own creativity?"

TURNING POINT

Well, yes. But there will be many unconvinced sceptics asking how on earth Nigel Shaw from Dartmoor has actually managed to sell many tens of thousands of his CDs and cassettes, and has come to enjoy a healthy turnover of £50,000 during 1995. Given that there are few groups or artists who have so far managed to succeed where Shaw has (one extremely notable exception being the unsigned band Show Of Hands, who recently sold out the Royal Albert Hall purely on the strength of their mailing list), he must surely have a sneaky secret, some hidden advantage: a rich dad, a certain contact in a certain place? Well, no. Delving deeper into Shaw's story, it appears that if he did have an unfair advantage, it was of a very mundane kind. His unassuming, instantly likeable personality — people quickly feel at ease around him —

is surely of great help when he's representing his music. And the fact that he's always seen himself as a bit of a non-musician, with no ambitions for fame or stardom, surely takes away a lot of ego and fear-of-failure pressure. But to this writer, the defining factor appears to be something that everyone can adopt: Shaw's eminently down-to-earth attitude. He has a vision, but he's allowed it to unfold slowly and organically, careful not to get ahead of himself. Instead, he took a small step forward every time, and then made sure that all parts of him and

his business had time to catch up. As the Zen masters say: regard the journey as more important than the arriving.

Shaw's journey began when he started playing keyboards at the age of 19, in 1981, while studying Applied Biology in London. He spent his entire

grant on a Roland Juno 6: "I figured that with a synth you can get some wonderful sounds just playing with one finger". An SH101, Fender Rhodes, and other keyboards followed. Though Shaw already realised that his future somehow lay with these machines, he nevertheless completed his degree, and also acquired a diploma in Pharmacology.

Finally released from the last remaining pressures of 'common sense' (get a degree, then a day job) in 1984, he made the "very conscious" decision to become a musician, and instantly went on the dole. He started recording on a Fostex X15 cassette 4-track, went on the Enterprise Allowance Scheme in 1985 as a composer, and produced his first "very basic" album, *Spirit Of The Elements*. He took it round to a few new age shops, some of whom bought it. An "amazing turning point" was some improvised performances he did at the Festival for Mind, Body and Spirit in London in 1985: "I sat up all night after I sold all my 10 copies of the album after the first performance, copying more tapes and drawing more covers. I thought: 'hey, something's happening here'." A second album followed, and Shaw gradually expanded his studio to 8-track. To support himself, he initially worked in a music shop, and later rented out his home studio. Meanwhile, he still felt like a stranger in a strange land: a chops-challenged non-musician and non-engineer entering an undiscovered country and learning about it as he went along.

FEEDBACK

"It was an organic process, each time doing a little bit more with my music, expanding a little bit more. I learnt gradually to deal with the business side as well. Apart from one point, when I couldn't see the next step, couldn't see how I could make it bigger, it never occurred to me to take the music to



SHAW'S SEVENTH WAVE STUDIO

SYNTHS/SAMPLING

- Korg DW8000 synth
- Korg O1R/W module
- Roland S50 sampler
- Roland SH101 analogue monosynth
- Roland W30 sampling keyboard

RECORDING

- 3G Crystal 16:4:2:1 mixer
- Alesis ADAT and ADAT XT digital recorders
- Alesis Microverb II reverb
- Alesis Quadraverb effects
- Beyer MC834 mic
- dbx compressor/limiter
- Denon cassette deck
- Ibanez SDR1000 digital delay
- JBL monitors
- Sony DTC690 DAT recorder
- Sennheiser 421 overhead mics
- Sennheiser 541 mics
- Sennheiser HD480 headphones
- XRI Systems synchroniser
- Yamaha GC2020 compressor/limiter

Creativity Is Priceless. Now, It's Also Affordable.



Introducing The Alesis QS6

How much is your creativity worth? You really can't put a price on something so valuable. The powerful new QS6™ 64 Voice Expandable Synthesizer gives you everything you need to push your creativity to new levels. It's the affordable solution for musical inspiration.



Studio Quality Sound

The QS6 has everything from realistic acoustic instruments to cutting-edge and vintage synth sounds, all accessible at the touch of a button. Its digital 16-bit linear non-compressed samples provide warm, clean, and incredibly accurate voicing for every performance. The onboard multieffects - reverb, chorus, flange, delay, rotating speaker effects and more - use the same advanced processor as our Q2™ Master Effects. Combine these effects with the massive sound library, and you'll create CD-quality mixes right from your synth. QS6's rhythmic/sonic loops let your creativity groove just by holding down a single key. The semi-weighted keyboard offers velocity, release velocity and aftertouch for expressive playability. It's all packed into a tough all-metal chassis that will take the punishment when you take your show on the road.

Variety and Expandability

The QS6 offers a huge palette of internal sounds - 8 megabytes of sample waveforms, 640 Programs, and 500 Mixes - giving you thousands of timbral options to choose from. This sonic

library can be expanded instantly by simply plugging in a 4MB or 8MB Alesis QuadraCard™, like our acclaimed Stereo Grand Piano card. Also, the QS6 includes Alesis' exclusive Sound Bridge™ software (for Mac and PC) which allows you create custom cards with your own sound files from your computer. This innovative technology guarantees that you'll always have access to new sounds.



Powerful Synthesis Engine

The QS6 uses the same advanced synthesis architecture as its big brother, the QuadraSynth Plus™. True 64-voice polyphony lets you assemble complex sequences and rich, stacked chords. Its 16 channel multitimbral Mixes and a built-in computer interface (also for Mac and PC) give you easy access to the world of MIDI sequencing, software and composition. In fact, we've included a free CD-ROM with the QS6 that's packed with extra sounds, killer sequences, and sequencing software to help get your creative juices flowing.



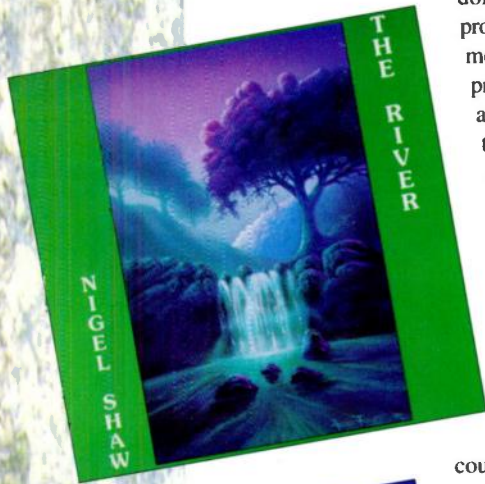
The QS6 is an instrument that was crafted to help you unlock your creative talents. Stop by an Alesis Dealer and start creating new music with the newest keyboard from Alesis.



Sound Technology plc
Letchworth Point, Letchworth, Hertfordshire, SG6 1ND
Tel: 01462 480000 Fax: 01462 480800

ALESIS

EXPANDABLE SERIAL DATA PORT GENERAL ALESIS EFFECTS SEQUENCING SOFTWARE QUADRACARDS



▶ someone else to sell it for me. As I said before, to me the business is inseparable from the music: doing my accounts is as much a part of the process as recording a new album. One may be more enjoyable than the other, but it's about a process of growth, where you learn to handle all those things. By 1989, I was selling one or two thousand copies of four album titles, and was just starting to make a living, selling my tapes at new age festivals and via new age shops. The advantage of doing it all myself was that I had a much higher return on every cassette copy I sold, as much as £7. Had I been with a record company, I would only have made a fraction of that per copy."

Shaw was by now playing at every new age fair or festival around the country, and his contacts with new age shops were growing rapidly, helped by the fact that he had several album titles, "so they could order a selection and make the postage and investment in my name worthwhile." Personal contacts with audiences at the festivals or feedback from the shops also helped: "You really get a sense of how music affects people's lives, you see it working. It's amazing." In 1991 Shaw produced his first CD, *Brother Sun, Sister Moon*, a project for which he borrowed £2,000 from the bank. Two largely improvised ambient CDs followed: *The River*, which used a backdrop of nature sounds recorded

in Dartmoor, and which has become Shaw's best-selling work to date, with over 15,000 cassettes and 6,000 CDs sold; and *The Seventh Wave*, featuring a backdrop of ocean sounds, which sold about half that amount. *The River* was his first album recorded in Dartmoor, where he moved in early 1992.

"I've met very few signed people who've had a really good time with record companies. For almost everyone, it's a compromise."

It was around this time that two other events took place that were of pivotal importance: he met Carolyn Hillyer, a painter who wrote songs to accompany her paintings, and he began playing the flute, an instrument that soon became of central importance to his music. Shaw and Hillyer became both personally and musically involved, and "things took off. There was now this joint vision; two sets of energies going out in the same

direction." The two combined forces under the umbrella of Shaw's Seventh Wave Music, the name tag that he had used for his ventures since 1987. Today Seventh Wave Music produces a beautifully laid-out mail order brochure that features six of Shaw's eight solo albums to date, three of Hillyer's albums — *House of Weavers* (1992), *Heron Valley* (1993) and *Grandmother Turtle* (1994) — and a series of her cards and prints. There are also several collaborations with other musicians, amongst them two albums by the band Global — *Willywoman* (1994) and *Shamanka* (1995) — both featuring wild "ambient trance-dance music". And this May two collaborations between the couple were added: *Songs From The Forgotten People* and *Echoes of the Ancient Forest*.

INSPIRATION

So what, then, of the music with which Shaw has achieved such remarkable success? Given that he has spent the last 10 years selling most of his music to new age audiences, one would be forgiven for assuming that his music falls firmly into that category. Shaw himself begs to differ, stressing that he does "ambient music. New age doesn't mean anything to me." New age music has acquired quite a bad name for itself, courtesy of a flood of tedious, repetitive, unimaginative albums that appeared to be an excuse for the creatively-challenged to make a quick buck. And a market for purely functional, impersonal new age music — like 'music for meditation', or 'music for massage' has also done little to earn the genre artistic respect. Shaw's music is a world away from the latter type: it's personalised music with a theme and a message — and, apart from the two ambient CDs, *The River* and *The Seventh Wave*, it demands attention. Yet it has many of the characteristics we commonly associate with the new age tag: slow-moving, synth-string washes, nature noises, lots of space in the sparse arrangements, much rhythmless hanging on one chord, and so on. It is generally very slow, calming music, and it is easy to see why it would appeal to a new age market.

At the same time, there's a haunting, melodic quality to Shaw's music, and this, combined with the extensive usage of American Indian flutes on later albums, and other acoustic sounds, whether sampled or 'real', gives his music a timeless, otherworldly quality, rather than a synthetic feel, and is thus far removed from new age clichés. Hillyer's albums, filled with intense, shamanistic-ritualistic songs, and the up-tempo dance rhythms of their band Global, also bear little resemblance to new age's stock-in-trade. Shaw agrees, though, that most of his music is undramatic and slow-moving, and explains: "It definitely is a reflection of my temperament. I love slowly-changing textures, and I love strings and polyphony. Classical music, for that reason, has always been a big influence on me, especially composers like Mahler, Fauré or Vaughan-Williams, who also have that brooding, slow-moving quality in their music. I don't like

MidiVerb[®] 4



Clean, Quiet, Rich

Forget what you know about digital multieffects processors, the new Alesis MidiVerb 4 has rewritten the book. While the competition has been chasing the standards set by three generations of MidiVerbs, our engineers were researching ways to integrate the form and function of digital reverb way beyond anybody else's imagination...or capabilities. It makes the MidiVerb 4 the cleanest, quietest, richest sounding and, yes, the smartest machine of its kind.

Here's how...

and Smart

Advanced Fully Integrated 18 Bit Architecture

Alesis is the world leader in full custom VLSI design for audio applications, so MidiVerb 4's 20 Bit DSP engine is so advanced it eliminates massive quantities of discrete circuitry, making it a revolutionary blend of electronic design and functionality. And to insure state of the art performance, the input is sampled at the professional standard 48kHz sampling rate via 18 Bit, 128 times oversampling A/D converters.

The Power of Great Sound

MidiVerb 4's superb reverb and effects algorithms are the direct result of our ten year mastery of the art and technology of sound. Dense, natural reverberation, and rich chorus, delay and pitch effects deliver unbeatable sonic performance. 20kHz bandwidth, 90dB signal to noise ratio, 18 Bit and 8 times oversampling D/A converters combine to make MidiVerb 4 perfect for even the most pristine digital recording.

Fast, Fun, Flexible

But great sound is only the beginning. You get 32 full Stereo configurations, as well as powerful independent Dual Channel Parallel Processing. Plus, a special

Cascade mode allows the output of channel 1 to feed the input of channel 2 in any of 7 dual channel configurations. A large custom backlit LCD, data entry wheel and clearly labeled buttons comprise the front end of MidiVerb 4's fast, intuitive user interface. Four parameters are shown simultaneously and there's even screen help prompts to put you at ease if there's ever a programming question. You can tweak one of the superb 128 preset or 128 user programs, or start from scratch and get the sound you need in no time.

Auto Level Sensing™

No, this won't tell you if your car's on a hill. But, if you want to start mixing in a flash, or the drummer's starting the count and you just plugged in, our exclusive Auto Level Sensing feature automatically sets the input level for optimum use of MidiVerb 4's wide dynamic range, so you'll never have to trade off patience for excellent sound.

It's a MidiVerb

Of course, because it's a MidiVerb, you can modulate effect parameters in real time via MIDI, select programs, and automate your effects during mixdown with a MIDI sequencer.

MidiVerb 4 is based on a classic theme, but it's new in every way. And as always with MidiVerb, the best part is the price. See your Alesis Dealer.

© MidiVerb is a registered trademark, Auto Level Sensing is a trademark of Alesis Corporation.



Sound Technology plc
Letchworth Point, Letchworth, Hertfordshire, SG6 1ND
Tel: 01462 480000 Fax: 01462 480800



► that Mozartian thing: here's a theme in your face and let's play it at 90 miles an hour and repeat it over and over again. And other than in the dance music, for which I use the W30 sequencer, I don't sequence my music. Horrible, rigid, sequenced predictability is one of new age music's greatest failings."

Shaw stresses that it is the quest to create a "sense of beauty" in his music that drives him, and adds that his biggest inspiration is Dartmoor: "That's a direct resource that I use in my music; to get that feeling of space and emptiness, to capture the energy of the land. We don't make folk music, but there's an ancientness of feeling to our music that is intentional and linked to Dartmoor."

This 'ancientness of feeling' has been particularly enhanced in recent years through the use of the aforementioned American Indian flute, especially on albums like *Seven Stones* (1993) and *The Lone Tree* (1994). Flutes, like synth strings, have played an important part in Shaw's music for many years. In the past they were samples, initially played on an S50, and later on his Roland W30. His Korg 01R/W, he says, "has the best string sound I've ever heard. It's not a brilliant machine — a lot of sounds are based around the effects that are in it — but the string sounds have a very rich quality to them, and the touch response is fantastic: the string sounds are beautifully playable."

ATTITUDE

Holding one of his American Indian flutes in his hand, Shaw dryly observes that "this technology has lasted longer than the music technology that is around at the moment. But brilliant results come from the combination of ancient things and electric stuff. There's something that really works about that." The only other keyboards Shaw owns are a Roland SH101 and a Korg DW8000. Combined with his 3G Crystal desk (a PA desk that he has slightly modified, and praises for its superior EQ and transparent sound

You can always feel that you need a new piece of gear, but it quickly makes you a victim, rather than a user, of technology when every time the next thing rolls off the production line, or is reviewed in *SOS*, you think: 'I really need to buy this.' You're forever learning about new equipment, rather than actually making music. It's for a similar reason that I don't use a computer sequencer: you can get so easily lost in the technical side of it, and get distracted from making music."

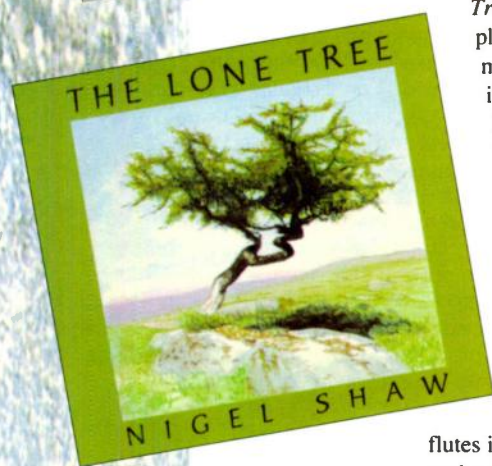
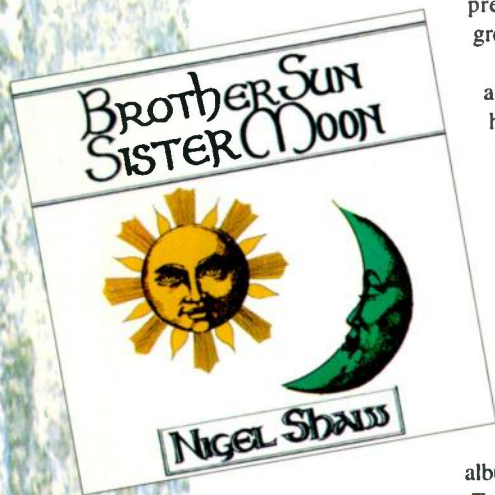
Towards the end of our conversation, we return to the subject of Shaw's DIY approach to selling his music, and talk about the nuts and bolts of his business — like how he never makes sale-or-return agreements with shops, "because it is a nightmare. Shops often don't keep records of what they sell, and the extra admin just takes time and energy. When I ring a new age shop, or an independent record shop, I make sure I make personal contact with someone, send him or her some material and agree to ring them back a couple of weeks later. If they like it, I suggest that they order five or something, with a 30-day invoice. I only charge £3.50 per cassette and £5.50 per CD, so that's not a big risk for them. My prices are very cheap — distributors sell CDs to shops for £7.50. If my production costs were higher, I would charge more too, but one of the main things that makes this whole DIY venture possible is the low production costs of CDs and cassettes. You can have 500 CDs made for £1000. If you sell them at concerts for £10 each, you only need to sell 100 to break even."

Shaw stresses the importance of having more than one album, and of taking things step by step. "The mistake would be to press up 1000 CDs, 500 cassettes, and then contact the shops. You should initially just have a few, and talk to people, make friends with them — there are many really nice people working in shops. It's a long, slow process, but it works." Shaw warns that the American market is virtually a no-go area, because new age shops won't buy other than from official distributors, no matter how much they like an album.

Finally, he denies that he's been successful purely because he has found a hole in a niche market: "I've carried on with exactly the same attitude with which I approach new age shops when I deal with record shops, and/or sell my dance music. Of course, you can forget about Our Price, but there are many independent record shops, including HMV and Andy's, with buyers who are always keen on new and adventurous material. They often can't stand the stuff that is dumped on them by record companies. It's your attitude that is the most important thing. Becoming independent and self-sufficient as a musician is a path, a spiritual path, that involves not just music and business, but your whole personality. I don't tend to define things in terms of spirituality particularly, but to me it's totally that."

SOS

Nigel Shaw and Carolyn Hillyer can be contacted at:
Seventh Wave Music, PO Box 1, Totnes, Devon TQ9 6UQ.



"If I can get my stuff out and support myself financially from my music, everyone can do it."

quality), two ADAT machines ("dead easy to use, and brilliant for recording flutes") and some minimal outboard gear, Shaw's studio is positively spartan. He explains that equipment, for him, is just "work tools to get a result, I don't get attached to any particular box. I don't need anything more.



GROOVE TUBES

Valve Microphones Glow With The Flow!



Sweetness and warmth are two elusive qualities that engineers the world over strive to capture in their vocal recordings. Now you can have it with Groove Tubes valve microphones.

Arguably, the best sounding microphones in the whole universe!

"The most fantastic sounding microphones - ever!"

Available from selected pro-audio dealers throughout the UK

Distributed Exclusively in the UK by Axis Audio Systems Ltd
Tel: ++44 (0)161 474 7626 Fax: ++44 (0)161 474 7619
Email: sales@axis.asl.demon.co.uk



Worldwide: Groove Tubes • GT Audio 12846 Fourth Blvd. Sylmar, CA 91782 USA Tel: (818) 361-4500 Fax: (818) 361-4501

gateway

in partnership with
Kingston University



New Modular 2 year Higher Diploma Courses

Options include
Service and Maintenance
Broadcast and Live Sound
Post Production and Multimedia.

Call for
our latest
brochure
or
Visit us on
the WWW

Gateway, The School of Music, Kingston University,
Kingston Hill Centre, Surrey, KT2 7LB Tel 0181 549 0014
http://www.king.ac.uk/~xe_s516/gateway.html

GET IT RIGHT FIRST TIME!

THINK YOU DON'T NEED THE EXTENSIVE FEATURES OUR PRODUCTS OFFER?
CALL US ON 0181 337 0333 AND FIND OUT WHY YOU DO (OR SOON WILL!)

The New **PRO SOLO** Single Channel Converter. Features: V/oct., & Hz/V (for Korg). 5 gate options (including S-Trig), Programmable LFO (9 waveforms), Pitch Bend, Portamento, Transpose, Single/Multiple Trigger, Auxiliary CV, MIDI Monitor Mode, Thru Socket, Rugged Steel Case, 3 Digit Display - Easy To Use. Now with sync 24/ clockpulse mode
IN STOCK NOW £119.85 Inc VAT

The **PRO-2** Dual Channel Converter can run two mono synths. Each channel has: CV, Gate, S-trig (for Moogs), 2 auxiliary CV's (to control filter cut-off, etc.). It also has SYNC24 (for TB303s), clock pulse output, optional Hz/V (for Korg & Yamaha synths), & can run a Wasp & TR606/808 on optional 3rd & 4th channels.
IN STOCK NOW £189.99 Inc VAT

The **PRO-4** Multi-channel MIDI to CV converter can run up to 10 pre-MIDI instruments, including 4 mono-synths. It also has many other features, such as 4 MIDI syncable LFOs, 8 auxiliary CV's to control filter cut-off etc, portamento, polyphonic mode, non-volatile set-up memories, extensive control via MIDI SYSEX, WASP, DCB & KADI ports as standard, optional Hz/V board, the ability to run a TR606/808 sync 24 & clock pulse, and much more.....
IN STOCK NOW £499.96 Inc VAT

SEQUENTIAL
CIRCUITS INC

EMS

moog

KORG



Oberheim

Roland

ARP

YAMAHA

We can fit MIDI to most pre-MIDI synths and drum machines with an internal MIDI Retro-fit. We can also supply, or fit socket kits to instruments such as the TB303, MC202, Odyssey, Prodigy, Cat, 700s, and others, to enhance their control from the PRO-SOLO, PRO-2 and PRO-4. Please call for details.



For further details, sales & mail order
Call Our Sales Line Now On **0181 337 0333**
Trade and export enquiries are also welcome
World leaders in MIDI for pre-MIDI Instruments



KENTON electronics



12 Tolworth Rise South, Surbiton, Surrey, KT5 9NN, UK
Tel: 0181 337 0333 Fax: 0181 330 1060
<http://www.kenton.co.uk> E-mail: sales@kenton.co.uk

electronics

KENTON



It's not often that plug-in cards merit the same attention as the equipment they plug into, but these add-ons are capable of transforming Lexicon's PCM80 effects processor into a completely different beast, as PAUL WHITE discovers.

PLUG-IN POWER!

LEXICON PCM80 PLUG-IN EXPANSION CARDS

Lexicon's PCM80 multi-effects unit is not yet two years old — we reviewed it back in *SOS* December '94 — but it has already made its name as a worthy '90s successor to Lexicon's classic PCM70. In its basic form, the PCM80 includes some fairly serious reverb algorithms, and although the number of simultaneous effects may seem limited on paper, the aural experience is never disappointing — and frequently stunning. If you own a PCM80, you can now expand its capabilities considerably, courtesy of the three new plug-in cards under review here, two of which (the Dual FX and Pitch cards) offer new processing algorithms and presets, while the third just offers new presets.

DUAL FX ALGORITHM CARD

The Dual FX algorithm card (the blue card on the right of the main picture) extends the PCM80's flexibility by offering 25 brand-new effect algorithms, which combine five completely new effects blocks with the five original reverb types. The algorithms must be loaded from the read-only card whenever the machine is used — the easiest way to work is simply to switch on the machine with the card plugged in. Alternatively, you can plug the card in with the PCM80 already running, and instigate load proceedings. Once loaded, the card can be removed from the machine and the algorithms will remain available until the machine is next switched off, which means that a studio running more than one PCM80 could load them all up from a single card at the start of each day. Using the card doesn't increase the number of user presets, but it does provide five new banks of presets prefixed X.

The five available reverb blocks are exactly the same as in the basic PCM80: Concert Hall, Plate, Chamber, Inverse and Infinite. The first of the new effects blocks is Glide, comprising a stereo pair of 2-tap gliding delays routed into four adjustable delay 'voices', each of which has its own feedback and pan parameters. The maximum delay time using a PCM80 with fully expanded RAM is a massive 42 seconds, and the pitch-changing character of the gliding delays makes it possible to create dynamic flanging-type effects or dramatic pitch-shifting treatments, many of which defy simple description.

The Chorus block might seem mundane from its name, but this one sounds wonderful, and sports four separately adjustable voices, making it sound like four chorus units working at the same time. The chorus effect is crystal-clear, with none of the noise or mushiness that afflicts many cheaper units.

Next up is M-Band, another 4-voice delay effect, but this time incorporating high- and

low-cut filters, enabling it to create repeat echoes that change in timbre as they decay. Though this isn't a new idea, it sounds exactly right, and you can get very close to setting up tape-echo sounds or echoes that appear to fade into the far distance.

Resonant Chord Res 1 and Res 2 are derived from the classic PCM70 and PCM80 resonant effects, where precisely controlled short delays are combined with large amounts of feedback to create resonators that 'ring' at a specific musical pitch. Percussive sounds produce metallic, tuned percussion effects, whereas harmonically rich pad sounds can become quite eerie. It is possible to control the resonator pitches via MIDI, allowing percussive sounds to be processed via chordal filtering, and there are two different systems for pitch allocation, which create two distinctive effects. Res 1 assigns pitches to the four resonators chromatically — the resonators retain the pitch of the last four MIDI notes played. The result is a sustain-like effect, as the resonators stay in their current state until a new note is played. Res 2 allocates the pitches diatonically harmonised with the scale, key and root note entered by the user. This allows a MIDI-controlled sound to be processed in a way that creates a resonator harmony. Both versions include conventional delay, which can be up to 38 seconds for a fully-expanded PCM80.

These five effects blocks are combined in all possible combinations with the five reverb types, hence the total of 25 different algorithms. The best way to describe the result is to pick out some of the more memorable preset types. As you'd expect, the chorus, modulation and delay effects are very clean, but what amazes me is just how

pros & cons

LEXICON PCM80 PLUG-INS £249/£199

pros

- The two cards with extra algorithms significantly enhance the capabilities of the PCM80.
- Each card has a good range of presets, which you can either use on their own or as a basis for your own adaptations.

cons

- If you add up what you need to buy all three cards, you could afford a budget effects unit in its own right!
- The preset-only card is not as good value as the two with new algorithms on board.

summary

The Pitch card and Dual FX cards are 'must-have's for anyone who could own a PCM80 now or in the future, but the preset-only card, though good, is probably only an essential if you do a lot of post-production work.

SOUND ON SOUND

Nord Lead V2.0

Nord Lead is the first digital synthesizer to use "Virtual Analog Synthesis". Clavia has analysed analog synthesizer design in detail and implemented the research in a digital model. Nord Lead employs mathematical simulations of the electronic signal generated by analog oscillators, instead of using waveform tables. This makes it possible, for example, to sweep the pitch smoothly over a very wide range and allowing for true pulse-width modulation. In other words it sounds amazing!

New Version 2.0 features: Analog Drumsounds!

Looking for that good old analog drumsound? Look no further.

Go down to your music store and check out the new Nord 2.0. It's loaded with exciting percussion sounds, the sounds you have been looking for. The Nord Lead/Rack 4-voice version comes with 10 analog percussion kits in ROM right from the start. The Percussion kits are editable, you save them via SYS EX Dump. An expanded Nord can hold an additional 30 programmable percussion kits on a PCM-CIA S-RAM card.

It's a breeze to work with percussion sounds in the Nord. You can use up to 4 different percussion kits of totally 32 sounds simultaneously on 4 MIDI channels. The percussion sounds are configured in 8 different zones on the keyboard. The 8 different sounds can easily be edited in real time. When you use the Nord in a multi-timbral set up, you can assign a percussion kit to one MIDI channel and use the other three channels for basses, leads or pads sounds.

A lot of sounds to start with!

The Nord 2.0 comes with several great analog single sounds and exciting "Layers" saved in 100 new Performance factory programs. You'll find great sounds from the past, today and for the future programmed by international sound designers. By using the unique features of the Nord, the 4 slot configuration and the "Morph" function, they have created exciting pads sounds, awesome leads and monster basses.

Try the Echo!

A new feature in the Nord is the Echo effect. The Echo will be influenced by the unique "velocity programming" (morphing) feature of the Nord.

More arpeggiator effects!

It's now possible to run the arpeggiator notes randomly.

New filter option!

A new filter is implemented into the Filter section. A Notch filter in serie with a Lowpass filter.

Additional MIDI features!

The Octave Shift button is now being transmitted and received making it possible to play other octaves on sound modules from the Nord keyboard.

"After Touch" is now being received. It can be assigned to LFO 1, LFO 2, OSC 2, FM or Filter.

Arpeggiator notes can now be transmitted via MIDI.

Additional Pedal functions!

An expression pedal can now be assigned to LFO 1, LFO 2, OSC 2, FM or Filter working independently of the modulation wheel.

Expand your Nord to 12 voice with the Expansion kit. Also make sure you get hold of a S-RAM card and you'll be able to download thousands of sounds free of charge from our WEB site!

Several sound cards are now available for the Nord!

Buy a Nord PCM/CIA S-RAM card and you'll get 237 single sounds and 100 Performances!

Attention Existing Owners!

Upgrade your Nord today to V2.0 - available from your dealer only €95!

Coming soon!

New 12-Voice "Extender" Rack mount unit for your Nord - double your Nord power!

World Wide Web Site!



World Wide Web!

On our homepage, <http://www.clavia.se/> you'll find thousands of sounds, both Single sounds and performances. Expand your Nord to 12 voice, get hold of a S-RAM card and you'll be able to download thousands of sounds free of charge from our WEB site!



For your nearest dealer contact:
Key Audio Systems Ltd.
Unit D, Chelford Court,
Robjohns Road, Chelmsford,
Essex, CM1 3AG.
Tel: 01245 344001
Fax: 01245 344002



LEXICON PCM80 PLUG-IN EXPANSION CARDS

SCOTT MARTIN GERSHIN CARD

Scott Martin Gershin of Soundelux Media Labs is a sound designer for film and TV, and he's put two banks of his own presets onto a card (the green one shown in the picture at the start of this review). All his presets make use of existing algorithms, so they can be used with a standard PCM80, and the majority of the presets are aimed at audio post-production. For example, there's a whole section on telephones, answering machines, TV and live PA simulations, rooms, and even patches for enhancing explosions! The next section of this bank moves the weirdness quotient up a notch, giving us effects suitable for flashback sequences, computer voices, so-called 'fantasy' sounds and sci-fi treatments, before getting back to earth with static, a car boom box, and a neat DJ effect where the resonators skip a perfect fifth every measure.

The second bank kicks off with patches such as 'Dreamscape', 'CyberFdbak' and 'Cybermare' before launching into a raft of rotating pans, multi-tap treatments and surround effects. Again, life returns to near normal towards the end of the bank, where there are simulations of auditoria, various rooms, and a very practical set of reverb patches optimised for various instruments or room characters.

Considering that Scott Martin Gershin was involved in the soundtrack for Disney's *Pocahontas*, most of these presets are anything but cute and cuddly. What you get is a concise sound designer's toolkit that meets the needs of the video post operator, but also has enough musical effects to make it worth adding to the studio repertoire. There's a generous helping of weirdness without making the overall collection too gimmicky, and on the whole, these presets really show off Lexicon's uncanny ability to create the illusion of space and distance.

► much effect you can pile onto a sound without smothering it. There are rotary speaker simulations, lots of nice variations on standard treatments, and some wonderful emulations of tape flanging and tape ADT. As the basic PCM80 has a lot of nice reverbs built in, the card tends towards the less obvious, and there are many acoustic spaces well suited to post-production work as well as to music. For example, there's a fabulous underpass/subway tunnel just crying out for a busking solo sax, and there are some frighteningly realistic rooms, which include simulations of combined close and distant miking. You also get a car park, various chambers and a symphonic string hall, which combines phasing with reverb in a very creative way.

There are numerous drum reverbs which make use of filtering combined with reverberation, a few really good plate simulations with tape pre-delay, and various bouncing echoes. To me, the simulation of space is the most impressive factor — there are patches that create an absolutely convincing sense of distance. With some, you can even move the sound source away from you in real time! You get TV sound, telephone sound, ducking delays, composite modulation effects and a useful range of dual effects, which allow the unit to produce two quite different mono or stereo effects fed from two different aux sends. In all cases, the extensive real-time parameter control of the PCM80 can be exploited to create patches which either respond to the sound being processed or changes sent over MIDI.

For anyone who already has a PCM80, or who is thinking of buying one, the modest cost of this card is a small price to pay when you consider the number of brand-new, truly useful effects to which it gives you access. Not buying this card verges on the tragic!

PITCH FX CARD

As it stands, the PCM80 has no conventional pitch-shifting capability, but the Pitch card (not shown in the picture, but identical to the others in all but colour — it's mauve) changes all that, providing access to five very advanced pitch manipulation algorithms. What's most impressive is the amount of shift that can be used before the side effects of the process become significant — there's a bare minimum of that irritating modulation that makes lesser units sound permanently 'out of tune'.

First off the card is the 'Quad Hall' algorithm, which combines Hall reverb with a powerful 4-voice pitch-shifter. Delay times of up to 1.25 seconds per voice may be included, and each voice has variable feedback. For more shifting flexibility, the 'Dual-Chmb' algorithm brings together the chamber reverb and a dual shifter with a vast +/- 3-octave range and a precision of 1 cent. Again up to 1.25 seconds of delay may be added per voice.

As an alternative, there's 'Dual-Plt', which substitutes a plate reverb, or 'Dual-Inv', which uses a reverse reverb algorithm. The 'Stereo-

Chmb' option is optimised for processing stereo material, and again, the range is +/- 3 octaves. Finally, 'VS-Chmb' provides on-the-fly, high-quality pitch-shifting for real-time pitch correction or varispeed compensation. The range is limited to +55% down to -35.48%, with a resolution of 0.01%. MIDI control over shift is applied to some programs, and each effects block incorporates a sophisticated submixer which lets you decide how



to combine the reverb and effects blocks. Facilities include stereo width, output level and filtering, as well as dry/effect balance.

The card comes with 100 factory presets organised into two banks, and within the banks, the effects are arranged into logical groups. For example, Bank X0 starts out with vocal and vocal harmony patches, before moving into guitar and instrument territory. Bank X1 strays further into *X-Files* territory, but includes some fantastic pads and drones, pitch sequences and combination effects, as well as a set of 'clean slate' algorithms for the creation of new patches. All the patches are impressive, but some are simply stunning. I was particularly impressed by the clarity of some of the vocal thickening treatments, while other patches created spatial effects as powerful as anything I've heard from dedicated 3D sound systems. In all, you get a wide selection of presets ranging from patches that let you hand-tune a dodgy vocal line to completely outrageous sci-fi effects that challenge one's powers of description, and though the pitch-shifting starts to show up side effects when you dial in huge shifts, you can move a vocal a few semitones either way without it warbling unduly. However, there is no attempt at formant correction, so the 'chipmunk on helium/Darth Vader with bronchitis' effect still rears its head if the degree of shift is excessive.

Again, this is a must-have card for anyone into anything vaguely ambient; it's also great for everyday vocal thickening and fixing. If you have a PCM80, you just have to have it. **SOS**

E Dual FX Card/ Pitch Card £249.10;
Scott Martin Gershin Card £199.
Prices include VAT.
A Stirling Audio Systems,
Kimberley Road, London NW6 7SF.
T 0171 624 6000.
F 0171 372 6370.
E sales@stirlingaudio.com
W http://www.stirlingaudio.com

Info

CALL NOW FOR BETTER THAN A PRICE MATCH

01473 287872 or 01473 254150

9 Months 0%, 1,2,3 years credit available (New low 23.9 APR). Written quote upon request.
Credit details taken in 2 minutes, Approval within the hour. Subject to status

KORG



- Korg Trinity - The Flagship. 24 Mb, 48K PCM samples hard disk recording.....£CALL
- Korg Prophecy£999 £CALL
- And now the New Trinity Plus.....Also In Stock
- IH VOCAL HARMONY£379
- X5D KEYBOARD£879
- KORG X5 DR MODULE£599
- KORG X3 WORKSTATIONNew Low.....£849
- KORG X5 SYNTH£679
- KORG X2 WORKSTATION£CALL
- KORG 05R MODULE£399
- KORG X5D Keyboard.....£829

ALESIS

ALESIS QS6 SYNTH
SOUNDS SUPERB £849



- QUADARVERB II Multi / FX.....£599
- MICROVERB 4 Multi / FX.....£279
- DM5 DRUM MODULE£479
- QUADRASYNTH + PIANO Keyboard£999
- MIDI VERB 4 Multi / FX.....£349
- 3630 compressor.....£269
- MEQ230 EQ.....£225
- MONITOR ONE£299
- SR 16 DRUM MACHINE.....£219
- R100 POWER Ref Amp.....£299
- SAMSON MPL 1602.....£259
- SAMSON MIXPAD 9 COMPACT MIXER.....£199

Studiomaster

- STUDIOMASTER DIAMOND CLUB 8-2£249
- STUDIOMASTER DIAMOND CLUB 12-2£299
- STUDIOMASTER DIAMOND CLUB 16-2£349
- STUDIOMASTER DIAMOND PRO 8-3£375
- STUDIOMASTER DIAMOND PRO 12-3£499
- STUDIOMASTER DIAMOND PRO 16-4-3£755
- STUDIOMASTER DIAMONS PRO 24-4-3£999
- STUDIOMASTER SESSION MIX 16-2£699
- STUDIOMASTER P7 16/8/16£1799
- VISION 8-2 POWERHOUSE£899
- VISION 12-2 POWERHOUSE£999

MICROPHONES

AKG beyerdynamic audio technica SHURE
Call us for low low prices

novation

- NEW DRUM STATION IN STOCK£479
- BASS STATION RACK£379
- BASS STATION KEYBOARD£325

TASCAM

- TASCAM DA/P1 Portable DAT£1299
- NEW M08 Mixer£299
- TASCAM 07 PORTASTUDIO£339
- TASCAM 424 MKII PORTASTUDIO£525
- TASCAM 464 PORTASTUDIO£599
- TASCAM DA30 MKII DAT Machine£1199
- TASCAM DA20 DAT Machine£779
- TASCAM 488 MKII 8 Track Portastudio£999

Roland



Roland MC303
£CALL £550

Roland VS880
Digital Studio Workstation
£1499 £CALL

64 Virtual track digital recorder

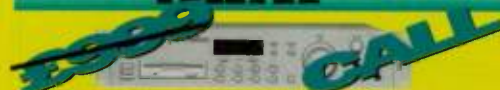
- ROLAND PMA5 PIANO MODULE£425
- ROLAND A90 KEYBOARD£1600
- ROLAND XP10 KEYBOARD£579
- ROLAND XP50 WORKSTATION£1279
- ROLAND JV1080 MODULE£979
- ROLAND XP80 WORKSTATION£CALL
- ROLAND SC88 VLCANVAS£639
- A33 MOTHER KEYBOARD£355
- MVSI VINTAGE MODULE£425
- M-GS 64 GS MODULE£525
- M-SE1 STRINGS MODULE.....£425
- M-OC1 ORCHESTRA MODULE£425
- M-DC1 DANCE MODULE£425
- DANCE, 60's & 70's, World, Vintage Boards.....£215

YAMAHA NOW AT MARY'S

- NEW SU10 Micro Sampler£299
- NEW QS300£1199
- MU5£239
- MU50£429
- MU80£739
- RY8£239
- MDF II£319
- New CS1X Synth£599

CALL FOR OPENING OFFERS

AKAI



£2000
16 bit, 2 meg, highly expandable using simms. Output expansion boards, F/X boards + free mac editing software.

- AKAI S3000 XL Sampler.....£1799.....CALL
- AKAI S3200 XL Sampler.....£2499.....CALL
- AKAI DR8 HARD DISK RECORDER + 1Gig HD£2899

For hard drive & memory expansions, chat to our hard disk recording expert Matthew

- AKAI U40 Rif-O-Matic.....£139
 - AKAI Remix 16.....£749
 - AKAI SG01V 256 Vintage Sounds Module£299
 - AKAI SG01P Piano Sounds Module£299
 - AKAI SG01K Gm Sound Module£299
 - AKAI DR4 HARD DISK RECORDER Special £949
- CALL FOR NEW DR16 PRICE**

New at Marks: a Hi-Tech studio. Come and hear the equipment demonstrated the way it should be, in the studio environment. For expert guidance on Hi-Tech and Pro Audio ask for Matt.

SECONDS OUT

- ROLAND JUNO 2£249
- ROLAND MT32£79
- TASCAM 464 as new£450
- ALESIS 3630£175
- ALESIS RA100 power amp£199
- MESABOOGIE studio pre amp£289
- ROLAND TD7 Drum Machine.....£399
- ROLAND Juno 6 Synth.....£279
- CELESTION SRI Ref Monitor£115
- JL COOPER PPS 100£225
- BOSS BL1 Bulk Librarian£125
- ROLAND MKS 100 Sampler£199
- AHB 8/2 Keys rack mixer£249
- Roland U20 Keyboard£499
- Pioneer CDJ 500 CD Turntable£499
- Yamaha CX5M Music Computer£50
- Fostex 812 Mixer.....£899

MARKS

WITH THREE STORES NEXT DAY DELIVERY
ACROSS EAST ANGLIA
WE BUY FOR CASH



CARD

CREDIT CARDS
We accept all major credit cards.
INSTANT DESPATCH

BANKERS DRAFTS - INSTANT DESPATCH
PERSONAL CHEQUES - 5 DAY CLEARANCE

CHEQUES

6-8 ST NICHOLAS STREET • IPSWICH • SUFFOLK • IP1 1TJ
27 KING STREET • CAMBRIDGE • CAMBRIDGESHIRE • CB1 1LH

SHURE AKG Lexicon Marshall novation beyerdynamic Digitaltech SENNHEISER

ZENON BOSS BEHRINGER AKG Steinberg FATAR CASIO E-MU

X MUSIC

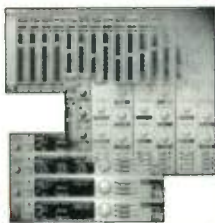


CAPTAIN SLOG REPORTS - STAR DATE JULY 1996 X-MUSIC, HI-TECH IN ALLEGIANCE WITH THEIR MOTHER SHIP RICHER SOUNDS

PHASERS ON STUNN

And you will be stunned by the new range software from Steinberg.

VST VIRTUAL STUDIO IF YOU HAVE A MAC YOU WILL BE AMAZED AT WHAT STEINBERG HAVE CREATED **£ 329**



EVENING SUPPLIER ROADSHOWS PHONE FOR DETAILS

STRANGE ALIEN CREATURE WEARING A VEST.



GALACTIC DEALS £ 209

ALESIS 3630

Tapes That's VX90 RRP £2.29 **79p** TDK AR90 **89p** TDK SA90 **£1.19**

KORG

RRP £999
X-PRICE

£ COSMIC

• ONE LISTEN AND YOU'RE HOOKED! • ANALOGUE, UHM, PHYSICAL MODELLING MONOPHONIC SYNTH



X-demo ALL WITH FULL WARRANTY BOXED AND MANUALS

EMU MORPHEUS
EMU CLASSIC KEYS, EMU VINTAGE KEYS PLUS

ROLAND MODULES

ALESIS ADAT XT
LIMITED NUMBER DEMO NISSA OUT

KORG

RRP £999
X-PRICE

£ JUPITER

• 24 MEG OF HUGE SOUNDS • MUTIMODE RESONANT FILTERS • TOUCH SCREEN FOR EASE OF PROGRAMMING



YAMAHA

QS-300

RRP £1199
X-PRICE

£ MOON

• 16 TRACK SEQUENCER • SMOOTH FILTERS • PROGRAMMABLE PATTERNS • INCREDIBLY VERSATILE
ONE OF THE BEST DANCE MUSIC WORKSTATIONS ON THE PLANET!



won a sampler well done to everybody who took part!

1st prize - Roland MS-1 Jason Pegg from Brighton

2nd prize - £10 credit Nathan Hughes from Bristol

3rd prize - A wet paddle on the back Stephen Withrington



See X-FILES or S.O.S for new competition to win the new Soundcraft Absolute Zeros

a pair for a pair

SECONDHAND SPOCK

| | |
|-------------------------------|--------------------------------|
| JUNO 2.....£399 | EMAX£499 |
| DYNAMIX 8:2£199 | EMAX K/BOARD£329 |
| CASIO C2-1£220 | EPS16 + 100 DISKS.....£729 |
| BREAKTHROUGH SOFTWARE.....£99 | KORG GR-1 REVERB.....£89 |
| NADY 101 VHF.....£199 | TASCAM PORTA 01£199 |
| WITH SM58 HEAD.....£199 | ART FXR£129 |
| TASCAM PORTA 05£199 | ROLAND JUPITER 4£239 |
| ROLAND R8£349 | EMU PROCUSION.....£279 |
| FOSTEX R8£649 | SYSTEM 12 DMP II MONITORS £949 |

ALESIS

QS6

X-PRICE

£ ORION

RRP £849 • 64 NOTE POLYPHONY • INCREDIBLE VOICES • MUST BE PLAYED! • UPGRADABLE



E-MU

ESI-32

RRP £1199

• 32 NOTE POLYPHONY • TIME STRETCH / COMPRESS • VERY EASY TO USE

X-PRICE £ COMET



FULL RANGE OF FOSTEX, TASCAM, BEHRINGER IN STOCK FULL RANGE OF MONITORS-ALESIS, TANNOY, AND SPIRIT

IN THE SMOKE

OUR LONDON BRANCH, 258A FULHAM RD, CHELSEA, LONDON, SW10 9EL.

TEL: 0171 349 9444
FAX: 0171 352 4002

WE BUY AND SELL

2ND

PART EXCHANGE DEALS ORGANISED, PHONE FOR DETAILS
NEW ENSONIQ ASR-10 £999 ONE ONLY

X-FILES RING FOR ONE



MAGAZINE • FREE: PRODUCT INFO, TECHNO TIPS, BASS STATION TRICKS, CYCLIST OF THE MONTH, POETS CORNER, COMPETITIONS & MORE.

RRRESTRIAL



PRODUCTS AND PRICES

**SPECIALISTS X-PANDING QUICKER THAN A SHOOTING STAR
BRITAIN'S MOST POWERFUL RACE OF HI-FI RETAILERS**

THESE STAR DANCE PRODUCTS WILL DEFINITELY MAKE YOU GET OFF URANUS

Roland GROOVEBOX MC303 **NEW**

THIS PRODUCT BLEW US AWAY IN FRANKFURT - MOVE SOME MOUNTAINS AND ORDER ONE NOW. THE ULTIMATE DANCE TOOL!

- 909, 808, AND 303 IN ONE BOX!
- FULLY MIDI, REALTIME CONTROL
- 24 VOICE, EFFECTS, 8 TRACK SEQUENCER

X-PRICE £559

YAMAHA CS-1 **NEW**

NOW IN SPOCK

X-PRICE £599

- REAL TIME CONTROL SYNTH
- 480 NORMAL VOICES
- 32 NOTE
- 16 PART
- ARPEGGIATOR

novation DRUM STATION **NEW**

NOW IN SPOCK

X-PRICE £449

- DRUM STATION
- 808/909 KITS
- FULLY EDITABLE

E-MU ORBIT **NEW**

NOW IN SPOCK

X-PRICE £STAR RRP £869

The ORBIT HAS LANDED, BLASTING it's way to the front of Dance Music with over 600 cutting edge samples and EMU's unique programmable 'beats'. Drum Loops that can be manipulated and tempo changed, 32 voice polyphony, 16 part with 32 6-pole, resonant filters and more - come in and be Orbed!

X-PANSION PLANS

A SMALL STEP FOR X-MUSIC, A HUGE STEP FOR MANKIND

Due to incredible response X-Music will soon be in a town/city near you. If you live in or around the following areas, have good knowledge of midi and recording, and have a high warp-factor humour - send your C.V. to our personnel department at our Bristol branch.

- NEWCASTLE
- BRIGHTON
- LIVERPOOL
- BELFAST
- MANCHESTER
- LEEDS
- BIRMINGHAM
- DUBLIN
- SATURN

COSMIC DEAL X-CLUSIVE

WAS £429 EXCLUSIVE

£279

Roland MS-1

- digital stereo sampler
- up to 4 note polyphony
- upgradeable to 20 Mb
- free sample cd
- onboard sequencer
- cheapest sampler ever

NEW **Roland THE EARTH SHATTERING**

RRP £1799

76 NOTE XP-80 WILL MAKE YOUR SAUCERS FLY YOU MUST HEAR IT - POP IN OR ASK FOR A FREE TAPE

RECORDING BUT NOT AS WE KNOW IT JIM

Roland VS-880

£ RED DWARF

- 8 TRACK DIGITAL DESK/RECORDER
- 64 VIRTUAL TRACKS
- FX CARD (V.POWERFUL)
- INTERNAL HD OPTION

RRP £1499 RING FOR PACKAGE

TASCAM TASCAM TASCAM

DA-20 £SATURN **PORTA 03 £STAR** **PORTA 07 £PLUTO**

NEWCASTLE BRANCH OPENING IN JULY RING BRISTOL STORE FOR DETAILS

MAIL ORDER - JUST CALL EITHER OF OUR BRANCHES FOR WHATEVER YOU REQUIRE, MAILED OVERNIGHT. QUICKER THAN A PORSCHE ON A GLACIER.

X-DANCE AS MARKED ABOVE, WE CAN RECOMMEND THE EQUIPMENT YOU NEED FOR THE DANCE MUSIC INDUSTRY. PHONE, OR COME IN FOR A COFFEE AND A CHAT.

OUR BRISTOL BRANCH, 20 COTHAM HILL, COTHAM, BRISTOL, BS6 6LF. TEL: 01179 734 734 FAX: 01179 734 800

IN THE STICKS

THE AIR WAS STILL, THE BIRDS WERE SILENT AND THEN THE CREATURE APPEARED - YES IT WAS OUR YAMAHA REB



Our regular look at the hottest new sample CDs and CD-ROMs.

X-STATIC GOLDMINE 3

(AUDIO CD & AKAI-FORMAT CD-ROM)

The loops that open this collection of 1500 house and techno samples are ex-vinyl, mono, 2-bar and absolutely filthy. However, as we know, grunge can be a positive production element, particularly when overlaid with pristine 16-bit samples.



First, a word about the format on the Audio CD reviewed here: the 24 loops on each track from 2-16 are tempo-matched within each track, and tracks are presented in semitone intervals. What does this mean? Any loop can quickly be made to fit tempo-wise with any other simply by using coarse tune on your sampler. A neat trick, and not the first time I've seen it in a *Goldmine* product.

This is meant to be a potted past and present history of house and techno, so some retro (ie. tired old favourite) loops are bound to appear. Trouble is they *keep on* appearing in various guises and tempos — a percussion overlay here, programmed drums there, foreground or background, each source loop gets a multitude of airings. No wonder they found it easy to tempo- and feel-match 24 loops per track!

The tempo rises as you continue through the CD, and as the loops get faster, so the fidelity gradually seems to improve (maybe we're just hearing sample playback at a higher tempo), and the patterns become more interesting and more current, though still workhorse rather than thoroughbred. Nice Roland rimwork on track 9, by the way.

Onwards and upwards, the loops get ever more frenetic. By track 13 we're into 'Put the needle on the record' territory. Then come three tracks of 24 jungle loops, each at 150-168 bpm. These are not the fast-but-cool, immaculately-produced patterns recently in vogue, but once again grungy, high-NRG types.

All 48 synthesizer "vintage sequences" and



"hooks" on the CD are either at 126 or 141.5bpm, and are key-matched to A or E, like just about all the melodic samples on this CD. I reckon these are originals; they're certainly not lifted off vinyl, anyway — too clean. They're cheeky without being too cheesy, and curiously, they all sound as if they came from two or three compositions. If you were writing sequences specially for a sample CD, wouldn't you want them all to be completely different? I'm beginning to get the idea that much *X-Static Goldmine 3* loop material has been edited and mixed from in-house multitrack recording sessions...

A goodish selection of bass tones leads into a rewarding bright piano chord set. I mapped some of these onto a keyboard and had some fun.

Some organ chords follow, then it's onto the big ones — stereo and mono chord pads and hits. The lush stereo is obviously simulated, via a chorus program. (I'd rather sample in mono and apply my own effects.) Still, the sources are very tasty, very chilly, and very classic. In fact the chord tones and hits section covers hundreds of samples, and is by far the richest vein in *Goldmine 3*. Sounds are strong in character, with fidelity pitched about right for the genre. There are warm pads, lush eerie drones, metallic and brassy hits, organ stabs — you name it, it's here. All samples seem to have been tweaked with EQ and compression to maximise impact. (The majority are probably from vinyl anyway, which usually adds a little something in addition to groove noise.) The runs and sustained tones that follow are classics too, including the great muted trumpet.

The special effects are appropriately chosen and edited, being short and rude, rather than

filmic. Drums, which are chunky rather than clean, are offered as kit sets of 12 mono samples, then tracks containing "favourite 12 kicks" or "24 deep and phat bass drums", for example, complete the CD. The exception is track 99 — "Test Tone 1kHz". For once, I decided to check out the usefulness of this feature: I sampled the tone at 0dB digitally into my S770. The sample sounded and looked absolutely clean. Nonetheless, some samples I'd already taken from the CD showed clipping on transients when taken at unity gain. I had to resort to the digital attenuation option on my sampler (-3dB seemed to fix it in most cases). So much for relying on the test tone to set sampling level!

X-Static Goldmine products never stint on quantity, and this CD is no exception. It contains much well chosen, in-your-face dance material, especially the tones, chords and runs, which you would be well advised not to be without. Where I feel the CD is lacking is with the loops — these seem to have been duplicated many times with various programmed overlays. Some of the engineering is also perhaps a little too rough and ready. Still, loops apart, this is a collection with plenty of attitude which should not disappoint house and techno enthusiasts. Incidentally, this disc is now also available as a CD-ROM, and the whole *X-Static* range on CD-ROM is currently going for £99 per CD-ROM, so it might be worth considering the ROM if you're interested. *Wilf Smarties*

CD £59.95; CD-ROM £99 inc VAT and UK p&p.

DIGITAL KITCHEN'S MIND CONTROL

AUDIO 3-CD SET



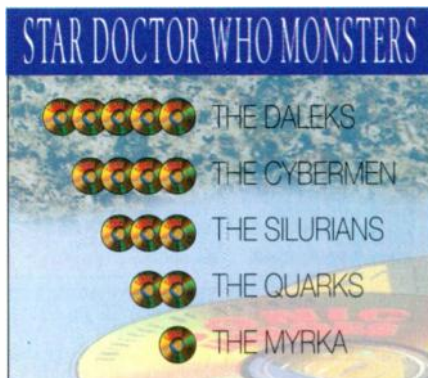
The skulls on these CDs give you some idea of what to expect from this bunch of Euro-weirdos: those seeking the dance sample equivalent of the Hieronymus Bosch painting entitled



'Garden of Earthly Delights' need look no further.

This set of three CDs is devoted entirely to industrial rhythmic grooves and sound effects. The first two discs are

based around hard-edged and aggressive grooves. All bpm's are dutifully recorded in the sleeve notes, and some of the rhythm sections are usefully long, containing evolving or changing patterns. Extensive use has been made of distortion and resonators to twist the original drum and percussion sounds to the edge of recognition, and the outcome is a surreal metallic landscape of sound. Many of the heavily featured drones sound like the beating of bomber engines, or Darth Vader slicing up Luke Skywalker in a striplight fight, but they're very



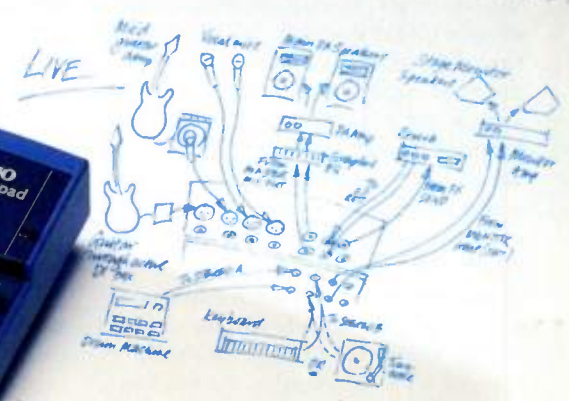
FOLIO
Notepad

SPIRIT

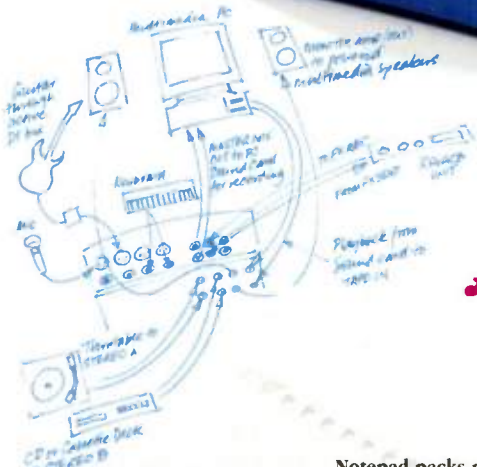
IT'S NOT THE SIZE IT'S WHAT YOU CAN DO WITH IT

Folio Notepad is small but surprisingly versatile. Musicians, sound engineers, multimedia users, DJs and many others will find plenty of uses for Notepad at live venues, in studios, bars, schools, places of worship and even "on location". Notepad's use of high quality components and short signal path mean it sounds cleaner than many large "professional" consoles.

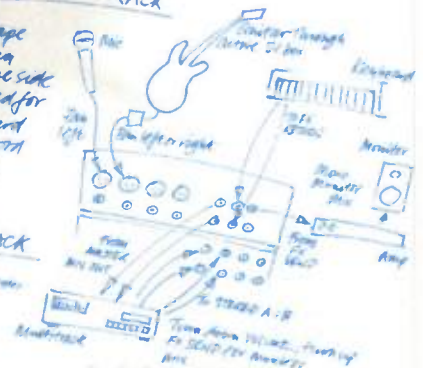
Here are some of the uses you could put Notepad to.



MULTIMEDIA
Recording and playback of music using a PC fitted with stereo sound card



RECORDING TO MULTITRACK
Record up to 2 tape tracks at once. Pan instruments to same side if they are desired for the track or Pan hard left/hard right to record on two separate tracks.



£199 UK RRP

THE FACTS

Folio Notepad is a compact DAT-quality 10 input stereo mixer that is flexible enough to be used in a wide variety of applications, either as the main mixer in small configurations or as a submixer in larger setups.



Unlike many small mixers, Notepad is no toy. It incorporates tried and trusted circuit designs and components used on our flagship mixing desks.

Notepad packs many of the features normally reserved for larger consoles: 4 mono mic/line inputs with high quality preamps, 48V phantom power and 2-band EQ; 2 stereo inputs with switchable RIAA allowing direct connection of turntables; post-fade effects send and stereo return; separate Mix and Monitor outputs...and much more.

At Spirit, sound quality is paramount and Notepad is no exception. But don't just listen to us - visit your Spirit dealer, listen to Notepad and judge for yourself.



SPIRIT

By Soundcraft

H A Harman International Company

Please send me more information on Folio Notepad

Name:

Address:

.....

.....

What will you use Notepad for?
.....

.....

What magazines do you read?
.....

.....

Please send me a FREE copy of the Folio Applications Guide written by pro-audio journalist Paul White on how to get the best from your mixer

Spirit by Soundcraft™,
Harman International Industries Ltd.,
Cranborne House, Cranborne Industrial Estate,
Cranborne Rd. Potters Bar, Herts EN6 3JN, England.
Tel: +44 (0)1707 665000. Fax: +44 (0)1707 665461.

<http://www.spirit-by-soundcraft.co.uk>



powerful and fit in perfectly.

Disc three is where you find the sound effects, and again, distortion and filtering are applied by the bucketload. The disc ends with a long selection of individual percussion samples in the same general style as the preceding material. Most of the effects are best suited to industrial dance and soundtrack work, and the majority are about as restful as a trip to the dentist. There's 'filtered feedback, flanged synth 'thwips', security alarms, mechanoid pulsating drones, flanged circular saws, tortured ring-modulated noises, and a selection of nasty atmospheres which should delight any sci-fi producer. All this adds up to a bleak, dark, other-wordly collection which bears about as much resemblance to your average dance groove CD as the creatures from *Aliens* do to the Andrex puppy. You may love it, you may hate it, but you can't remain indifferent. I feel I have to give it four out of five for its persistent nastiness, which doesn't let up through all three discs. Cyber-hell on a stick!

Paul White

£ Audio 3 CD set £99 inc VAT and UK p&p.

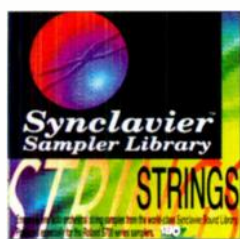
SYNCLAVIER SAMPLER LIBRARY



AKAI-FORMAT CD-ROM

The name of Synclavier is synonymous with serious sampling. Over the years, the company built up an enormous library of samples, some of which have found their way into major film soundtracks and record releases. Now the US sample company ILIO is marketing a five-disc CD-ROM library based on this collection and known as the *Synclavier Sampler Library*.

Available individually, the discs are categorised as *Keys and Guitars*, *Brass and Winds*, *Strings*, and two percussion discs:



Essential Percussion and *World and Orchestral Percussion*. The samples themselves range from massive piano sets that require a fully stuffed sampler to use, right down to

floppy-sized samples of 1Mb or less. The quality of the sounds is, on the whole, consistently good, with some of the solo instruments really shining.

Keys and Guitars provides an eclectic set of pianos, guitars, harpsichords, and even a Chapman stick, alongside a number of analogue synth sounds. The pianos and guitars are nicely sampled and include some useful distorted guitar

sounds, while the synth section is exceptionally well-stocked, if not exactly ground-breakingly original.

Brass and Winds concentrates mainly on orchestral wind, presented in a variety of playing styles. Though ethnic instruments make a token appearance, this section is very short, comprising only pan pipes, whistles, a wooden flute, and a didgeridoo. A huge range of orchestral playing styles is included, making it possible to programme very realistic orchestral arrangements.

Like the wind selection, the *Strings* disc is almost entirely comprised of orchestral samples, including both solo and ensemble instruments. There are some lovely harp arpeggios and numerous excellent solo instruments, including the notoriously difficult to capture violin. However, I felt some of the ensemble string sounds were below par, because of the amount of bow noise, which gave them a noisy, almost 'fluffy' character. While accepting that bow noise is an integral part of natural strings, I have heard much cleaner-sounding string samples that sacrifice nothing in the way of realism. The disc concludes with a few choral examples and string combinations.

Essential Percussion concerns itself with the traditional drum kit, along with a few bass sounds. The majority of the contents are broken down into separate drum types rather than complete kits. The drums are beautifully sampled, with plenty of dynamics, and keyboard mapping to provide access to alternate samples on a number of occasions. This enables you to create your own drum kits using any of the available sounds, though the non-GM mapping (GM mapping would be impossible because of the number of multi-key sample variations) means that you may have a little shuffling around to do in order to get things exactly where you'd like them. For those with less inclination to build their own kits, the disc rounds off with a handful of ready-constructed kits.

The final disc offers *World and Orchestral Percussion*, which is divided into Latin, Shakers and Rattles, South American, Far East, and Miscellaneous, plus Orchestral Percussion. Contents are of a very high standard, especially the vast array of orchestral percussion, but again I felt this was a very 'safe' collection of sounds, with no African or Indian drums.

To summarise, I love the drum samples, and some of the individual orchestral samples are stunning, but the collection isn't totally without flaws. While there are few samples that could be called technically bad (the looping is first-class throughout), there are one or two lacklustre examples, and those seeking world sounds will find only a limited selection here. Where the collection really scores is in its thorough treatment of orchestral sounds and styles. Most of the samples are also surprisingly memory-efficient, which means that you can make more use of the multitimbrality of your sampler when creating orchestral arrangements. Paul White

£ All CD-ROMs in series £169 except the two percussion ROMs, which are £129 each. Prices include VAT and UK p&p.

FLAMENCO SOUNDS

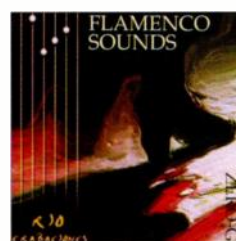


AUDIO CD

The title says it all, really. Time & Space have come up with a collection of samples that give you all the building blocks you need to add either a hint of Flamenco to an existing track, or construct your own Spanish-style dance-floor smash.

The main instrument in Flamenco music is, of course, the guitar, and the first 40 of the 99 tracks are given over entirely to the sounds of the nylon acoustic. Strums (complete with wonderful fretboard taps) are presented in a number of tempos and keys. There are also arpeggios, strums, runs, and chord hits, all of which ooze authenticity and feeling, and the intelligent mapping of key signatures and bpm's mean that they lend themselves to sampling more easily than you might expect.

The next section takes male Cantaor and female Cantaora vocalists and fills 16 tracks with about 80 sung Spanish phrases. These range from simple phrases like 'Ay Ay Ay' to complex



and unusual long melodic phrases that sample like a dream. The quality of the recording is excellent throughout, and gives you lots of room to add your own ambience or

other effects, should you want to.

After the solo vocals, there's a small section of group shouts, speech and singing. This is not nearly as inspiring as the solo stuff (the group sound as though they may have had a little too much sangria whilst waiting to record), but they're good fun and useful all the same. The 'Cajon' drumming is, again, utterly traditional and authentic, but a little harder to pin down into any specific category of usefulness — unlike the foot tapping, stamping and castanets which makes up the last three sections of this CD. These worked brilliantly against a number of rhythm tracks I tried, and all are listed with their appropriate bpm's.

Time & Space can congratulate themselves on a job well done. This CD brings the feel and spirit of true flamenco music into the realm of sampling. Many would argue that this type of music doesn't lend itself to such a hi-tech approach, but as the demo on track 1 shows, if you have an open mind to fusing these samples with other, more modern music forms, there are a number of exciting possibilities just waiting to be discovered. *Flamenco Sounds* is an unusual addition to the CD rack, but a well-constructed and inspiring addition all the same. Paul Farrer

£ Audio CD £59.95 inc VAT and UK p&p.

All this month's sample CDs are available from: Time & Space, PO Box 306, Berkhamstead, Herts, HP4 3EP.

T 01442 870681.

F 01442 877266.

E sales@timespace.com

Soundscape



- Powerful PC based hard disk recorder**
- 8 Tracks upwards
 - Real time digital EQ
 - Digital Mixing
 - Locks to any sequencer using the same PC

PC



PC Computer system for sequencing and hard disk recording + multitasking
The way of the future (NOW!)
Please call for prices & info

The fabulous
Fostex D80
8 Track Hard
Disk Recorder



NOW IN STOCK

Finally, someone has developed an expandable IDE based digital removable hard disk system which offers up to 30 minutes of true multitrack recording, non destructive 'cut, copy, move & paste' editing, instant locate and search, five 'virtual reels', digital and analogue inputs/outputs along with a full function auto locating remote control. And all in a package which is as easy to use as your tape machine and costs no more than £1499 inc VAT, Naturally, that someone is Fostex.

EAST LONDON AND ESSEX'S TOP RECORDING EQUIPMENT CENTRE NEW AND SECONDHAND

SOUND BUSINESS

Recording equipment sales. Your one stop studio centre

ALL THE LATEST
KEYBOARDS AND
SOUND MODULES
FROM:

- EMU
- AKAI
- ROLAND
- YAMAHA
- ENSONIQ
- GENERAL MUSIC
- KORG, FATAR

London / Essex

Top Analogue Multitrack Centre
New/Secondhand 8/32 Tracks



Give us a call to check your requirements.

Great Deals!

MACKIE.

Simply The Best
Call for prices and deals!

NEW & EX DEMO + SECONDHAND BARGAINS

- Allen & Heath GS3V 24 with automation
56 inputs on mix (Very, Very Special).....PHONE
 - Alesis Monitor Ones
(Studio N / F Monitor).....Special PHONE
 - Alesis RA100 Monitor Amp.....Special PHONE
 - XRI Systems XR300 SYMPTE Synchroniser ..£225
 - Mackie 16:8 recording console
(ex Demo)£2250
 - Soundtracks Topaz MkII(new)PHONE
 - Neuman U87 (R-1950.00). The Best£1595.00
 - Alesis ADAT XT (New).....PHONE
 - Alesis BRC Controller£1050.00
 - MIDIman MM401 MIDI interface for PC. £65
 - Denon full range of CD Players, Cassette
Machines, Amplifiers etc.....PHONE
 - Tascam DA88£3200.00
 - Alesis ADAT 8 track (Digital)
Mint Condition.....£1650
 - Fostex G24S 24 Track 1"£3950
 - Various Secondhand Mics.....PHONE
 - Fostex E16 - 16 track 1/2 Recorder.....£1600
 - Fostex B16 16 track 1/2" recorder.....£1400
 - Revox B77 High Speed 2 track master Recorder.....£650
 - Fostex R8 8 TTrack as new
(new head just fitted) Bargain£900
 - Tascam TSR8 8 Track 1/2"
Mint Condition as new.....£1350
- Plus - Much - Much - More. - Please Phone.

Rode NT2

Large Diaphragm
Condenser Microphone
The Business
at a budget price of

£495.

Complete with carry
case and suspension.

MIXING CONSOLES

- MACKIE
- SOUNDTRACKS
- ALLEN & HEATH
- SOUNDCRAFT
- TASCAM
- FOSTEX
- SAMSON
- STUDIOMASTER

DAT RECORDERS

- TASCAM DA20
- Tascam DAP1 (Portable)
- TASCAM DA30 MkII
- TASCAM DA60
- FOSTEX D10
- FOSTEX D20 B
- FOSTEX D5
- PANASONIC SV3800

WE ARE MAIN SUPPLIERS FOR:

- TASCAM ■ FOSTEX ■ SONY ■ YAMAHA
 - REVON ■ DENON ■ AIWA ■ SOUNDCRAFT
 - OTARI ■ STUDER ■ SOUNDTRACKS ■ ALLEN & HEATH
 - STUDIOMASTER ■ DRAWMER ■ ALESIS
 - LEXICON ■ XRI SYSTEMS ■ SYMETRIX ■ BEL
 - ART ■ ARX-SYSTEMS ■ APHEX ■ TANNON ■ JBL
 - QUESTED ■ AKG ■ NEUMANN ■ AUDIO TECHNICA
 - SENNHEISER ■ ROLAND ■ KORG
 - AKAI ■ C-LAB ■ STEINBERG ■ OMNI PHONICS
 - AUDIO MANAGEMENT ■ ATARI ■ DIGIDESIGN
 - KLARK TEKNIK ■ STAND EASY ■ PANASONIC
 - SOUNDSCAPE ■ BBE-DIGITECH ■ BERINGER
 - GENELEC ■ MANLEY MIKES ■ GENERAL MUSIC
 - MACKIE ■ MICROTECH ■ GEFELL
- PLUS MUCH MORE ...

AKG - STOP PRESS - AKG

Fantastic deals on
AKG C3000
large diaphragm
Top Quality Vocal Mic
Retail = £530
Our Price = £275

NEW RELEASE

TASCAM DA20
DAT RECORDER
Fantastic Spec. Records at 48 & 44.1 KHz
IN STOCK NOW
Retail = £799
Special Deal Price
£PHONE

Fantastic New Digitech Studio Quad

4 X Independent multi effect units in one.



Very high spec. Retail £499. Please call for special price. Plus whole Digitech range

NEW ALESIS ADAT XT

Even Higher Specification



★★★★★
STAR BUY

All prices available on
application. Call Now!

Fantastic New Spec
Sound Business
Call Now!

STOP PRESS NEW RELEASE STOP PRESS

Fostex
DMT-8

A REMARKABLE SYSTEM NOW COMPLETED.
TOP CD QUALITY

Fostex
D-80



The Fabulous new fostex DMT-8
8 Track portable hard disk recorder,
features to blow your mind.
Please call for details

True Multitrack Recording,
CD Quality Recording and Playback,
Removable front panel remote,
Unique virtual reels, Cut, Copy, Paste & Remove Editing,
8, 16 or 24 Tracks, Analogue & Digital I/O,
Flexible locate functions

SOUND BUSINESS STUDIO SALES

Sound Business House, (Near Woodford Central Line Station) Woodford Green
Telephone: 0181-559 0373
Fax: 0181-559 0444
Mobile: 0860-188388
United in and dedicated to the pursuit of
musical excellence

OPEN SEVEN DAYS 9am to 9pm
MAIL ORDER SPECIALIST UK/EUROPE/THE WORLD

WELCOME TO THE 21ST CENTURY. MAKE MUSIC AND BE HAPPY



**Everything Must Go!
Great Savings
on all ex-
showroom
display and
secondhand
stocks!**



**Starts
Saturday
29th June
9.30am**

LEEDS 0113 240 5077

- Casio CTK750 Keyboard £379
- Technics KN1000 Keyboard £959
- Ensoniq ASR10 Sampling Workstation £1899
- Akai S2800 Sampler £1099
- Yamaha SY35 Synthesizer £399
- Denon DRS640 Cassette Deck £169
- Roland SRJV8001 "Pop" Expansion £199
- Roland VE-JV1 Expansion Board £134
- Korg WPC12 Wavestation Card £29.99
- Roland SNV01 Rhodes Card £21.99
- Roland SRJV8004 "Vintage" Expansion £199
- Roland SRJV8008 "60's/70's" Expansion £199
- Akai EXM8002 Sample Expansion Card £99
- Yamaha PSR420 Keyboard £269
- Yamaha PSR6700 Keyboard (used) £989

LEICESTER 0116 262 4183

- Kawai R50 Drum Machine (used) £89
- Boss DR5 Drum / Guitar Machine (used) £199
- Yamaha YPS20 Keyboard (used) £199
- Technics KN800 Keyboard (used) £349
- Yamaha PSS795 Keyboard (used) £149
- Korg X5DR 64 note polyphonic Sound Module (used) £399
- Waldorf Microwave Module (awesome) £699
- Boss DS330 Dr. Synth Module (used) £249
- Boss DS330 Dr. Synth Module £299
- Roland S760 16 bit Sampler £1099
- Roland JS30 Sampler £399
- Roland E12 Synthesizer £299
- Fatar Studio 2001 Mother Keyboard £899
- Akai S01 16 bit Sampler £499
- Emu ESi32 Stereo Sampler (ex demo) £899
- Yamaha MU80 Synth Module 499

MANSFIELD 01623 651633

- Roland SC50 Sound Canvas £299
- Yamaha TX81Z Sound Module (used) £129
- Yamaha MT8X 8 trk Cassette Multitracker £799
- Emu ESi - 32 SamplerSCSi (one only) £1099
- Akai DR4d + Drive + Midi Interface £999
- DBX 266 Compressor £199
- Symetrix 488 Dynasqueeze £399
- Digidesign Audio Media 2 (Mac) £395
- Roland A30 Mother Keyboard £349
- Yamaha MUS Sound Module £199
- Roland TR505 Drum Machine (used) £49
- Sony SE86 Monitors (pair) £79

- Digitech TSR24 S - Disc Processor £399
- Phonic Digital Delay (used) £69
- Yamaha NS10 Studio Monitors £279
- Casio VZ8M Sound Module (used) £79
- Alesis HR16B Drum Machine (used) £79
- Beyer Dynamic IRS790 Infra - red Headphones including base unit £49
- Behringer Autocom MDX1000 £159
- Digidesign Sample Cell 2 (Mac) £395
- Atari Falcon 030 inc 4 Track H/D Recording Software £349
- Peavey Analogue Filter £199

NORWICH ACADEMY OF SOUND 01603 666891

- Peavey Spectrum Bass Module (used) £249
- Roland MT32 LA Synth Module (used) £95
- Roland E86 Intelligent Synth (used) £749
- Roland E96 Intelligent Synth £1099
- Viscount RD800 Data Filer £349
- Yamaha QY8 Module / Sequencer £149
- Alesis Quadriverb 2 Multi Effects £499
- Aphex 104C2 Big Bottom™ £229
- Yamaha FX770 Multi Effects £249
- Studiomaster Mixdown Classic 24 £1699
- Roland RC3 Midi Remote Controller (used) £19
- Ultimate Support 2 Tier Stand £69
- Peavey Spectrum Analogue Filter £249
- Emu CLassic Keys Module £499
- Kurzweil KMP1 Piano Module (superb) £349
- Roland E12 Synthesizer £349
- C Lab Falcon 2 + Steinberg Cubase Audio Package £2299
- Octava MK011 Condensor Mic £95
- Yamaha TG500 64 note Synth Module £399

NOTTINGHAM 0115 958 1888

- Korg 01/W Pro X (88 note weighted keys) Workstation £1599
- Roland D70 LA Synth (76 note) £799
- Roland W30 12bit Sampling Workstation (used) £599
- Casio FZ1 Sampling Keyboard (used) £599
- Akai S1100 Sampler (32Mb RAM + Digital I/O interface) £1699
- Yamaha DX7 "Classic" Keyboard £199
- Akai S01 Sampler (used) £449
- Kawai K4R 16 Voice Synth Module £249
- Emu Proteus Synth Module £249
- Emu Vintage Keys Plus £599

- Ensoniq EPS16+ Sampler (used) £899
- Kurzweil K2000R Synth Module £1599
- Yamaha EMQ1 Module £99
- Yamaha TQ5 Module / Sequencer £59
- Korg P3 Piano Module £79
- Roalnd TR505 Drum Machine (used) £449
- Digitech TSR24 Multi Effects £449
- Yamaha REV100 Reverb £199
- Yamaha TG55 Synth Module £275
- Evolution EVS1 Synth Module (used) £99

SHEFFIELD 0114 264 0000

- Roland JS30 Sampler £399
- Roland RA30 Realtime Arranger £329
- Roland G800 64 note Intelligent Keyboard £1399
- Roland FP1 Piano £1099
- Viscount D9E Drawbar Organ Module £275
- Kurzweil K2000 Synthesizer £1799
- Yamaha MDF2 Data Filer £299
- Yamaha SY35 Synthesizer £399
- Yamaha QX7 Sequencer (used) £45
- Fostex X15 4 trk Recorder (used) £99
- Akai DR4d Hard Disk recorder inc. Drive £999
- Allen and Heath Cs1 Desk inc. Meter Bridge £699
- Oberheim Matrix 6R Rack Synth (used) £449
- Lexicon jamman £315
- Fostex 812 Mixing Desk (used) £549
- Roland U110 PCM Playback Module (used) £139

STOKE 01782 205100

- Casio FZ1 Sampling Keyboard (used) £599
- Yamaha SY35 Synthesizer £399
- Kawai K1 Synthesizer (used) £199
- Kawai KSM Synth Module (used) £149
- Yamaha TQ5 Module / Sequencer £59
- Gem WS1 Workstation (used) £349
- Alesis MMT8 8 Track Hardware Sequencer (used) £99
- Yamaha FB01 FM Module (used) £69
- Yamaha EMT1 Module £69
- Fostex 2016 16 Ch. Line Mixer (used) £199
- Yamaha PSRSQ16 Workstation (used) £599
- Yamaha MS20 Powered Monitors (pr) £59
- Spirit Folio Lyte Mixer (used) £199
- Seck 12.2 Mixer (used) £149
- Fostex 380s Dolby S 4 trk Multitrack Cassette Recorder (one only) £599

This is just a selection of our sale stock - please call us if you do not see the item you require!

Carlsbro Mail Order 0345 697037

Why buy from us?

Confidence!
BEST PRICE!

We will match any genuine written quotation for items held in stock.

Confidence!
FAIL SAFE!

Loan of suitable gear in the event of your purchase from us requiring an under guarantee repair.

Confidence!
EXCHANGE!

If you are not completely satisfied with your choice of item, we allow upto 14 days for you to exchange your goods (subject to condition of the item/s.)

Confidence!
SECURITY!

We have been established for over 28 years in the music business!

3-4 York Towers, 383 York Road,
Leeds @ 0113 240 5077
22 Humberstone Road,
Leicester @ 0116 262 4183
182-184 Chesterfield Rd Nth.
Mansfield @ 01623 651633



Carlbro's Academy Of Sound
2 Sovereign Way, Anglia Square,
Norwich @ 01603 666891
11-13 Hockley,
Nottingham @ 0115 958 1888
720 - 724 City Road,
Sheffield @ 0114 264 0000
35-39 New Hall Street, Hanley,
Stoke on Trent @ 01782 205100

Finance Available - subject to status
Written quotations on request

We Accept: Cash



0345 697037

7 DAYS A WEEK
24 HOUR RESPONSE
All calls charged 10p/min.

PLEASE NOTE MAIL ORDER
SWITCH TRANSACTIONS
ACCEPTED BY MAIL ORDER
SERVICE ONLY

Roland MDC1
Dance Board in a 1u Rack R.R.P. was £499 **£379**

Roland MVS1
Vintage Board in a 1u Rack R.R.P. was £499 **£349**

Roland MSE1
Orchestral Board in a 1u Rack R.R.P. was £499 **£379**

Roland MS1
Great user friendly expandable sampler which allows you to cost effectively sample drum loops, vocal fly-ins, guitar licks, sound effects and more!
R.R.P. was £449 • Last Ever..
£229.00

Lexicon Alex
Digital Multi Effects
R.R.P. Was £389
£299.00
Lexicon Reflex
Digital Multi Effects with advanced midi control
R.R.P. Was £469
£329.00

Yamaha QS300
32 voice Dance / Techno Workstation featuring Dance Groove patterns, 16 track sequencer, great sounds..
R.R.P. was £1199
£999.00

Yamaha MU5 Sound Modules R.R.P. £239 **£199**

Tascam 488mk2
Possibly the best specification and highest quality analogue 8 track cassette recorder available, the 488Mk2 portastudio combines good looks with great reliable performance.
R.R.P. was £1299
£899.00

Akai CD3000i+ Sampler
• 8Mb Sample RAM • Resonant Filters • 32 Note Polyphony
• 8 Individual Outputs • CD ROM and Floppy Drives • 8 Sample CD ROMs inc. the official Akai S1000 / S1100 / S3000 sound libraries
• Digital Effects • R.R.P. Was £2599

Exclusive Last Ever Batch!

£1799
SAVE £800 OFF R.R.P!

Roland MGS64
Very versatile General Midi Module featuring 32 part multi-timbrality, 64 voice polyphony, multiple outputs
R.R.P. was £599
£479.00

Spirit Studio 16.8.2 Desk
Exceptional quality and outstanding value 4 bus recording desk. R.R.P. £1492
£1099

Roland SRJV8008
60's and 70's JV / XP Series Sound Expansion Board
R.R.P. was £255
£199

Technics WSAX1
64 VOICE VIRTUAL MODELLING WORKSTATION
• Huge Polyphony • Multiple Outputs • Twin Midi In/Out/Thru • Great Sounds...
R.R.P. was £2499
£1599.00

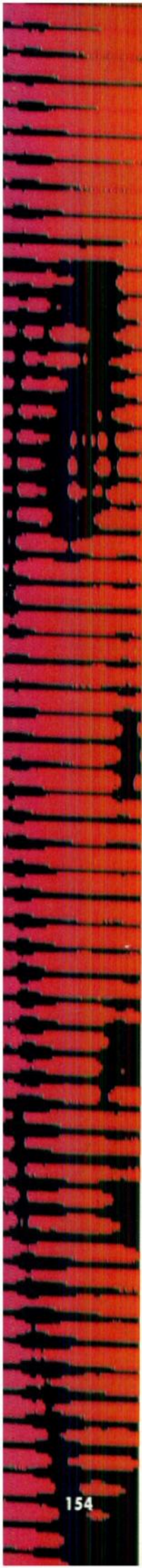
Steinberg Cubasis Audio
PC Sequencing / Digital recording Software
R.R.P. was £249
£179.00

Sale Ends Saturday August 3rd

Voted Best Music Shops Making Music Reader's Poll 1995

Carlbro

WHAT MUSICIANS NEED



I'll never forget that fateful evening in May 1979 when I tuned into BBC1's *Top Of The Pops* and witnessed a strange, bleached blond, young man in unusual black attire performing an equally strange song. Tubeway Army's soon-to-be number one hit single 'Are 'Friends' Electric?' was quite unlike anything I'd ever heard before and arguably opened the floodgates for the early '80s wave of synthesizer-based acts to follow. Its sneering creator, Gary Numan, briefly became an icon for a generation of synthesizer fans.

The song in question's chart-topping parent album, *Replicas*, recently made it onto CD for the first time in its own right with fully restored artwork — prompting *Q* magazine to observe, "Songs like 'Me! I Disconnect From You', 'Down In The Park' and the vanguard monster hit 'Are 'Friends' Electric?' not only helped the ungrateful Human

FALLING STAR

In a nutshell, when Gary opted to 'retire' from the rigmarole of touring in 1981 with a series of visually spectacular, yet financially crippling, sell-out shows at London's Wembley Arena, he immediately alienated his substantial overseas following in the process. BBC Radio One subsequently refused to playlist his music from 1983 to the present day, corresponding with his departure from Beggars Banquet to set up his own independent label, Numa Records. To all intents and purposes, Gary's rapid decline from millionaire 'superstar' status began here. However, contrary to popular belief, with a fanatically loyal following and buoyant fan club boasting 3,500 members, Numan is still making records, touring, and rapidly approaching his 20th professional year in the pop industry.

GARY NUMAN

A NEW FLAME

Gary Numan's music epitomises the electro-pop era and undoubtedly helped boost synth sales in the early '80s. With the chart re-entry of his classic hit single 'Cars', Numan is approaching his third decade in pop.
JONATHAN MILLER receives a lesson in the art of survival...

League and Depeche Mode into the charts, but also established Numan as a highly-skilled and intuitive pop musician." And deservedly so. In our age of commonplace six-figure production budgets and their attendant lengthy block-booking of state-of-the-art recording studios, it's hard to believe that *Replicas* was recorded on 16-track in just three days flat at Gooseberry Studios, in London's Chinatown, for a total cost of almost £500.

Despite now enjoying a hitherto unknown degree of rock acclaim amongst current chart bands — many of whom have covered his songs on record or stage, including Pulp, Beck, Hole, The Foo Fighters and Shampoo — it was a different story in 1979. Back then, Gary Numan was continually ridiculed by the press for no apparent reason other than being successful.

Numan's record sales exceed a healthy 15 million units, whilst 1979's *The Touring Principle* — filmed during his first sell-out UK tour — was the first commercially available full-length music video, pipping Blondie to the post by a matter of weeks. Put simply, Gary was almost alone in seeing the opportunity for a 'star' of synthesizer-based music — a smart move, as evidenced by the string of hits to follow, with over 35 chart singles and more than 20 chart albums to date. By chalking up two number one albums and two number one singles in a three month period of 1979, Numan became the UK's fastest-rising star since The Beatles. So what went wrong?

At his home-based 24-track recording studio, Outland, I finally met Gary — a quiet-spoken, rather shy and reserved 38-year-old, quite unlike his flamboyant and occasionally menacing stage persona. Outland may seem a small studio for an artist of Gary Numan's stature, yet its ergonomic layout and use of natural daylight makes for a pleasant working environment, and perhaps goes some way towards explaining Gary's increased recorded output of late (more of which anon).

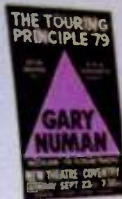
Setting up his own record label might be viewed as a way for Gary to attain greater control of his musical destiny, yet this was not the driving force behind the move: "At Beggars Banquet I just felt I was forever being promised things and not getting them. At one point a representative even said, 'We know we're guaranteed to sell 50,000 or 60,000 albums with you in this country and we're happy with that.' It wasn't a case of trying to make it bigger and build on it around the world. So when faced with that situation, you've got to move on, because it kind of indicates your relationship is pretty much finished.

"So that was the reason for setting up Numa — it wasn't so much for control. I thought, 'Hang on, if I'm selling that amount of albums, I'm going to be quids in if I have my own label.' But that soon turned to worms, because I didn't bank on getting no airplay."

STATE OF INDEPENDENCE

Back in 1986 Gary was still based in the infamous Shepperton film studio complex, at Rock City Studios, and in the process of expanding Numa Records as an independent concern with a roster of new artists, casting himself as producer. Unfortunately, things did not quite map out as





GARY NUMAN

Not only is Gary credited with all writing, performance and production duties on *Sacrifice* — the tiresome role of drumming currently being handled by an Akai S1000 sampler/Apple Macintosh Quadra 650 computer/Emagic *Notator Logic* sequencer combination — he's also formed the NuFederation artwork company to create his own record sleeves on the Mac, without the involvement of outside graphic artists. A true one-man-band effort, "*Sacrifice* was the best album I've done for a long time — perhaps the best ever. To write something like that after so many disappointments and setbacks was a great relief to me."

LEARNING CURVE

Company conundrums aside, I asked Gary how developments in the field of music technology had enabled a progression from the appealing quirkiness of *Replicas* to the slick overtones of *Sacrifice* — albeit with a welcome return to his characteristically 'punk' guitar on tracks like 'Love And Napalm': "Because so much stuff is now electronic and in-line, a great deal of the engineering skill is null and void. You don't need it to make a modern record, which must be a horrible position to be in for highly-qualified and skilled engineers who aren't required anything like as much as they used to be. I give myself an engineering credit purely for egotistical reasons, but I'd never get a job as an engineer! If, like me, you predominantly use keyboards and samplers, you don't need to be one."

There is, of course, usually a downside to technology and I wondered if, in his current state of seclusion, Gary misses the spontaneous recording sessions as in days of yore: "If you look at the relative quality between *Replicas* and *Sacrifice*, then I couldn't honestly say I miss it. One of them sounds like a piece of shite made in the '70s and the other sounds like an album made with a lot of time and care spent on it."

"But the technology is getting in the way a little bit, for me. Not only is the technology itself complex and takes time to master, it now gets updated at such a ridiculous speed — you're constantly in a state of learning and I'm growing tired of that. I've left school and don't want to spend the rest of my life studying. When recording *Outland*, at one point I was reading 17 equipment manuals, just to make an album!

"I do understand that new technology is moving very quickly, but I think we should all be aware that

ARE 'FRIENDS' ELECTRIC

Musical success generally involves a winning combination of talent, luck and, in the case of Gary Numan, fate. His entire career essentially rests on one pivotal song — 'Are 'Friends' Electric?' — yet his modest conclusion that "it's nothing clever" took me by surprise.

It's actually composed of two entirely separate songs — the spoken sections were initially part of an uncompleted ballad and later added to the basis of 'Friends' simply because Gary was stuck for ideas to finish the song. This — coupled with an amorous chance encounter with a Minimoog, left over from a previous session at Cambridge's Spaceward Studios whilst demoing guitar-based Tubeway Army songs — led to a million-selling synthesizer classic.

That said, had it not been for renowned Radio One DJ John Peel's fortuitous suggestion of Tubeway Army filling a vacant *Top Of The Pops* slot on that fateful evening in May 1979, it may well have been a different story...

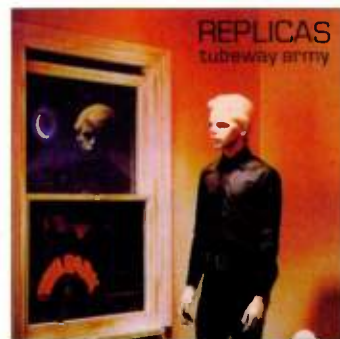
▶ planned. As Gary recalled with a hint of bitterness: "What I tried to find were artists that I thought were good, who had been turned down by everyone else, because that was exactly what happened to me. It's soul destroying when even the tiniest independents tell you to piss off. The intention with Numa was always to give someone a stepping stone. If they went on to do great things with a bigger label, then I would have their first album and get my money back. But it never worked out that way and overall it was a very unhappy experience.

"I now have a lot of sympathy for record labels who've had to work with people like me, who moaned about every little thing that went wrong! All of a sudden you realise that you're moaning at the small group of people who are actually trying to help you. Numa really did make me change my opinion and regret an awful lot of things that I'd said in the past about Beggars Banquet and WEA."

POLITICS OF DANCING

A brief flirtation with Miles Copeland's IRS label in the late '80s spawned a 100,000-selling album in the United States — Gary's first foreign release in several years — before becoming yet another problematic period in his turbulent career. This came to a head over the continuously segued, crossfaded *Outland* album in 1990.

Faced with such lunacy, Numa Records was re-activated in time for Gary's 15th studio album, *Machine & Soul*, in 1992. A solution appeared to be found with 1994's studio album, *Sacrifice*. This was a case of going back to basics and doing it all himself, as on *Replicas* where he played everything bar uncle Jess Lidyard's drums and bass.



THE NORTHERN DISCOUNT WAREHOUSE

2 MINS FROM JUNCTION 28 - M6

LARGE FREE CARPARK

WE'RE SO CHEAP . IT'S UNBELIEVABLE!!

ROLAND

XP50 We daren't print our price!
 XP10 Really! Really! Cheap!
 MKB 300 Mother Keyboard £299
 ex-demo - 1 Only Now In Stock
 A-33 New mother keyboard Now In - Best Deal!!
 XP-80 Now in - Best Deal!!
 VS880 The ultimate digital home
 recording unit Now In Stock £PHONE

**YOU WONT BELIEVE
 OUR PRICES!!!**

YAMAHA

W7 Workstation £899
 QS300 Rave On Best Price
 MU80 Best Discount Price
 MU50 Best Discount Price
 MT8X Two Only Ex- Demo £699
 NS10 Best Discounted Price

QY300 Only £499
 Limited Stock

KORG

i4S Now in Stock
 X5 & X5D } **BEST UK PRICE!!**
 Prophecy }
 Trinity }

**FOSTEX
 XR3, XRS
 XR7 IN STOCK
 GREAT PRICES**

DYNAMIX

8.2 Mixer Only £299
 12.2 Mixer Only £349
 16.2 Mixer Only £399
 24.2 Mixer Only £499
 8.2 Powermix 300W x2 Only £5499
 140 PA + Cabs Only £399

Very Limited Stocks

**GW33
 MULTI FX UNIT
 ONLY £249
 SAVE £150**

**TASCAM PORTA 05
 ONLY £199**

**TASCAM
 PORTA 07
 £339**

S/H AND SHOP SOILED BARGAINS

Roland 760 Pre set synth Only £399
 Rhodes MK-60 Only £399
 Technics WSA Synth Only £1799
 Yamaha V50 Workstation Only £399
 Keyboard Stands £99
 AKG D190 Two Only Only £59.99
 Elka EM22 Only £199
 Aces 10.2 Desk Only £99
 Cheetah MK5 Only £399
 Korg 03RW Only £79
 Yamaha TX1P

**SMS8
 ONLY
 £99**

**FOSTEX
 DMT8
 BEST
 PRICE**

KEYBOARDS

Technics KN3000 Best UK Deal
 Roland E12 £349 Now £199
 Roland E16 £449 Now £299
 Roland G800 (ex demo) Best Price
 Yamaha PSR 620 Best Price

**1 ONLY
 EMU PROTEUS
 EX DEMO
 £299**

RING RIMMERS MUSIC TEL: 01772 433281



NUMAN ON TECHNO ARMY

"As a songwriter to have other musicians cover your songs is something of an honour. To have almost an entire album devoted to your work is extremely flattering. My original versions of these songs, recorded over the last 16 years or so, are somewhat different and so it has been fascinating to watch other musicians' interpretations of them come to life.

"Particularly over the last two years, my own music has taken a much darker, heavier direction and so it is highly unlikely that I personally would have reworked these songs in this style. For that reason alone, this album is somewhat disconnected from me but is, nonetheless, something that makes me enormously proud and I am grateful to Nick (Smith) and Miles (Seabrook) for putting it together."

► we don't have to buy everything when it comes out. In the end, you're constantly torn between not being left behind and simply not having the time to learn it all. Bearing in mind that I now do everything myself, it's a problem because there's only so many hours in the working day."

HOW DO THEY DO THAT?

Whilst having always been credited as a producer on his records, it wasn't until he set up Outland in 1990 that Gary began to take a hands-on approach to the recording process: "At Rock City I was involved in the mixes, but only by sitting there interfering with the engineer and irritating him by asking, 'Can I have a bit more reverb?'. Although I moved volume faders up and down, I didn't actually know what was going on.

"When Rock City's lease expired in 1987, my intention was to never have another recording studio for as long as I lived! It was a horrible experience that cost a lot of money.

"Owning my own studio, but never being that interested or involved in the actual running of it. I was very unaware of what had been going on technology-wise in home recording and music in general. I didn't really get into sequencing until about two or three years after everybody else. One of the bands I signed to Numa were heavily into sequencing and I was thinking, 'That's good. How do you do that, then?'

"Eventually I decided I was badly out of touch

and bought a Roland S10 sampler, a sequencer, and a little portastudio and started teaching myself how it all worked — even though I'd owned two professional studios at one point!"

THE PROFESSIONAL TOUCH

A makeshift 24-track system comprised of two Akai MG1214 "glorified portastudios" saw Gary over the interim period, following Rock City's demise. One B-side was recorded on this setup with Shakatak's Bill Sharpe — with whom Gary had a couple of collaborative hit singles — before synchronisation problems sent him running into a commercial studio for the first time since 1979's *The Pleasure Principle*.

"In 1988 I went to a place called Black Barn to record the *Metal Rhythm* album and really enjoyed working in a proper studio environment again with proper machines. By now I was starting to take a lot of notice of what was going on — watching what the engineer was doing, looking at the gear and finding out what things cost. I was shocked at the cost of making an album in a commercial studio. It wasn't a problem, but I felt it was wasted to a degree and it started me thinking, 'I could do all this myself.'

"It's the same with EQ mastering at cutting rooms nowadays. They reckon it's a highly-skilled thing that they're doing. It's a very expensive thing and some of the people doing it are highly-skilled, but some of them are monkeys and they charge the same money. I might as well pay nobody and be a monkey myself, so that's what I'm doing.

"Now I finish an album, put it into Sound Tools, and compress it or whatever. By comparing it to other CDs by Nine Inch Nails or Depeche Mode — something that has the same kind of sound to what I'm doing — I can listen to what my EQ is doing. If it sounds as bright and hard, and it's not waffling down the bottom end, then I'll go with it.

"Now I know this may not seem absolutely professional, but it works. The last album I put out that I EQ mastered myself was a live recording, called *Dark Light*, and I got an email message from an American bloke who thinks it sounds much brighter and clearer than the previous live album, which was done by so-called professionals."

DRIVING LESSONS

Gary Numan's name is inextricably linked to analogue synthesizers, thanks in part to the success of 'Cars', his second UK number one single, and its accompanying promotional video featuring Gary 'driving' over an endless landscape of Polymoogs! Never one to ride with fashion, however, Gary is somewhat scathing of the distinctive sounds which assisted his meteoric rise to fame — even in today's prevailing retro climate: "I remember people wanting to be punk rockers



GAZZA'S GEAR

RECORDING:

- Aiwa Excella DAT
- Aiwa WX220 cassette deck x 2
- Atari ST Mega 4 computer (with DAC 700Mb hard disk)
- Digidesign Sound Tools
- Otari MX80 multitrack
- Quad 405 amplifier
- Soundtracs Quartz desk
- Tannoy Little Gold speakers

OUTBOARD:

- AMS DMX-1580S digital delay
- AMS RMX-16 digital reverb
- BBE Sonic Maximizer enhancer
- Bel BD80S digital delay
- BSS DPR402
- Digitech Valve FX guitar preamp
- Drawmer DS201 dual noise gate
- Drawmer DL221 dual

compressor/limiter

- Lexicon PCM70 digital reverb
- Nomad Axxeman guitar processor
- Valley Micro FX noise reduction x 6

INSTRUMENTS:

- Akai S1000 sampler (with DAC R5000 hard drive)
- Alesis Quadrasynth
- GEM S2 synthesizer
- Gibson Les Paul guitar
- Korg M1REX module
- Korg Wavestation SR module
- Roland D550 module

SEQUENCING:

- Emagic Logic/Apple Macintosh Quadra 650
- Opcode Studio 4 MIDI interface

"I've also got some bits and bobs in the shed, although I don't use any of it at the moment: a Minimoog; Oberheim OBXa; Yamaha baby grand; a couple of Roland Jazz Chorus guitar amps; and a few other things I can't remember. Most of it has been toured into a state of disrepair."

TOPAZ!



I HEARD THAT THE BEST SOUNDING 8 BUS CONSOLE HAS JUST GOT EVEN BETTER.

BUT IN DIRECT A-B COMPARISONS IT'S ALWAYS BEEN A WINNER.

SO I CAN'T BELIEVE THEY HAVE MANAGED TO IMPROVE IT EVEN FURTHER.

WE NEED TO CHECK THIS OUT...

LATER THAT DAY AT THE LOCAL MUSIC STORE...

THE CHANGES WE'VE MADE GO MORE THAN SKIN DEEP!

IT JUST FEELS SO SMOOTH!

THIS NEW CONSOLE LOOKS AS GOOD AS IT SOUNDS!

NEW ANTI-GLARE SWEDE EFFECT FINISH TO ALL TRIM INCLUDING THE OPTIONAL METERBRIDGE.

NEW FRONT PANEL COLOUR SCHEME DESIGNED TO REDUCE VISUAL FATIGUE.

RE-STYLED, AND COLOUR COORDINATED STUDIO-PRECISE KNOBS FOR INSTANT RECOGNITION AND ACCURATE POSITIONING.

NEW ULTRA-GLIDE ROTARY FOLDS FEATURING PATENTED DOUBLE BUSHING FOR PRECISE CONTROL AND EXTENDED DURABILITY.

20A2017 INPUT IC BY ANALOG DEVICES, (NOT USUALLY SEEN ON CONSOLES IN THIS CLASS), PROVIDES ULTRA-LOW THD AND HIGH SLEW RATES WITH A SUB AUDIO 1/F NOISE CORNER.

TRUE DUAL-INPUT CAPABILITY WITH MAIN AND SECONDARY INPUTS HAVING INDIVIDUAL HIGH-TOLERANCE EQ SECTIONS, SOLO AND MUTE SWITCHES.

HIGH-STABILITY, TIGHT TOLERANCE FILM CAPACITORS PROVIDE CONSISTENT CHANNEL TO CHANNEL EQUALISER PERFORMANCE AND UNIFORM SPECIFICATION.

1% METAL OXIDE RESISTORS THROUGHOUT PROVIDE FOR SIGNAL LEVEL INTEGRITY AND LOW NOISE.

MAXIMUM GROUND PLANE CIRCUITRY TECHNIQUES (MGPC) TO REDUCE NOISE, INTER-CHANNEL CROSSTALK AND HIGH INTENSITY EM (RADIO) INTERFERENCE.

MEETS AND EXCEEDS STRINGENT EC STANDARDS FOR SAFETY AND ELECTROMAGNETIC CONTROL.

GOLD PLATED CONNECTORS ENSURE EXTENDED RELIABILITY.

The intuitive automation system runs on a standard PC under Windows™.

Since its introduction, the Topaz 8 bus console has been the choice of literally thousands of discerning artists and engineers seeking a standard of audio which they had only experienced from more expensive, large studio consoles. The new Topaz Project 8 further enhances this experience. Not only has the colour scheme been completely re-vamped and



the automation made even easier and more flexible to use, we've also incorporated over 404 other improvements - most initiated by our users - to make the Project 8 the ultimate no-compromise solution to track laying and automated mixing.



TOPAZ

by SOUNDTRACS PROJECT 8 CONSOLE

For further information call freephone 0800 374994. Distributed in the UK by beyerdynamic))) Unit 14 Cliffe Industrial Est., Lewes, Sussex BN8 6JL.



GARY NUMAN

► long after it was over — people who were too young to be one at the time — and there seems to be an element of this when looking back at old synthesizers. People want to use Moogs because they missed them first time around, but I was there and don't have any nostalgia for them whatsoever.

"The Polymoog had one good preset in it called 'Vox Humana', which is the high string sound heard on 'Cars', and with the Minimoog I was just trying to make it sound as powerful as two chugging guitars, since I wrote most of the early stuff on the guitar anyway. I think there have been much more creative things done with synthesizers since then, because

nowadays they can do so much more.

"Having said that, in my opinion, the Oberheim OBXa was the best analogue synth of them all, but that was from later years. I'm probably going to get mine up-and-running again, but it's so huge and I don't know where I'm going to put it!"

MODERNISATION

Although Gary once cited the saxophone and guitar as his all-time favourite instruments and not the synthesizer, a quick glance around his home studio revealed a more modern selection of digital instrumentation, including an Alesis Quadrasynth, GEM S2 and Korg Wavestation SR. His ageing collection of notoriously unreliable, yet currently in vogue, analogues now lie in cold storage, flightcased and forlorn in an outbuilding — not that the latest acquisitions have been entirely trouble-free, a dire scenario with which no doubt many recording musicians can identify.

"I really do have a thing about manufacturers releasing gear before it's truly ready. It goes on a great deal and I think it's disgraceful! For example, Alesis recently brought out an update for the Quadrasynth and they're not supplying it free to people who supported them by buying the original instrument. We're like unpaid testers and they're updating it because there are faults that we owners have been complaining about.

"I understand that development cost sometimes comes into it, but often it's not even development — it's repairs! If you buy a new car which has to

be recalled because the steering wheel keeps falling off, you wouldn't expect to pay for it to be fixed because it's a design flaw!

"I don't mind if it's adding functionality to what is essentially a very good machine that does all the things it was supposed to do when I bought it. If the manufacturer then says, 'We've done some work and we can now make it do XYZ as well' that would be like buying a turbocharger for your car — you bolt on another bit to make it go faster."

By now Gary was on a roll and next in the line of fire were Emagic: "I've got *Logic 2.1* and it doesn't

"In my opinion, the Oberheim OBXa was the best analogue synth of them all."

send out MIDI song position pointers. That's like a car that doesn't have a motor in it! At first I could only assume that there was a fault with mine, but I rang up a mate who's got it and his doesn't do it either. I can't believe this isn't a fault, and it's not like we're talking about version 1.0 here!

"I've learnt my lesson and now I'm going to wait until something's been out for at least a year before considering whether to buy it. I don't care whether the studio goes out of date or not, because it means that when I finally buy something it should work properly."

PREMIER HITS

My visit ended on a musical high with Gary playing some unfinished backing tracks from his forthcoming studio album, provisionally entitled *Exile*. Abetted by the multi-layered sampled percussion loops that have become his latter day trademark, these were already sounding incredibly powerful in their infant state and a clear indication that Gary has indeed become a master of both his craft and tools with a unique brand of sinister and heavy music.

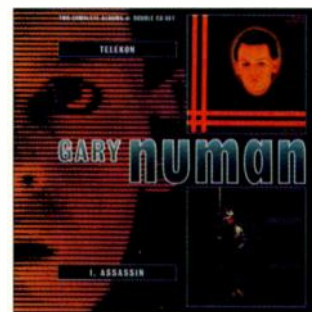
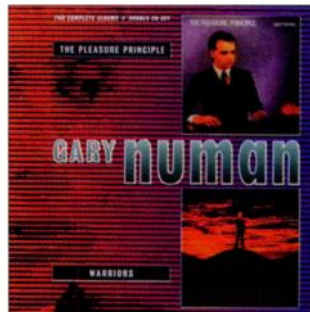
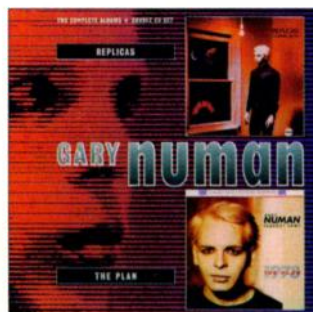
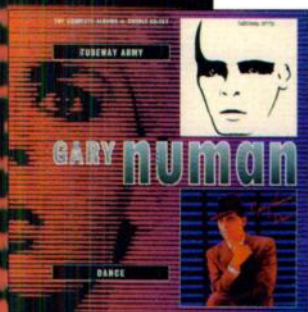
"I used a changeable mixture of drum loops taken from sample CDs, although they were all retuned from the original. For example, I would not use a loop for a 90 beats per minute song that was recorded at 90bpm, but rather one that was recorded at 120bpm and then slow it down. This changes the



BRAVE NOWORLD

In joining the so-called 'information superhighway' at the tail end of 1995, it would appear that Gary Numan has become something of a jack of all trades. NuWORLD: The Official Gary Numan Internet Connection is entirely his own creation and incorporates aspects of the NuMIND database, Fan Club newsletters and his information telephone lines. Its nomination for a 'YELL! For The UK Best!' award is both a testament to Gary's natural artistic talent combined with the Apple Macintosh's ease of use and versatility — not bad going for a self-confessed computer novice.

Gary is hopeful that this newfound technology will help alleviate his prevailing state of isolation and expand his present fan base beyond the boundaries of the UK. Regardless of your intentions, it's well worth a browse as an excellent example of a well executed World Wide Web site. Check it out on: <http://www.numan.co.uk>



Studiospares

FS27 CODE 543-161 Studiospares

CATALOGUE IS OUT NOW

120 pages, 2500 items

tel 0171 485 4908

fax 0171 485 4168



1996/97



GARY NUMAN

- ▶ sound of the loop, making it the right tempo, but heavier in texture than the original 90bpm loop. I'm sure others would disagree with that, but it seems to work for me. I also added individual samples that I 'played' from the keyboard in real time, to put in fills and basic timing the way a real drummer would. Cymbals and hi-hats were also 'played' individual

"I was very unaware of what had been going on technology-wise in home recording..."

samples in most cases. All of the drum sounds were heavily EQ'd in one way or another and everything went through my trusty AMS and Lexicon reverbs, usually on gated or non-linear settings, but occasionally an artificial reverse reverb was used. That's all there was to it actually, but you must be careful when building up drum layers that you don't lose clarity in that never-ending search for power."

With possible major recording and US licensing deals looming on the horizon, perhaps a Numan renaissance à la Human League is just around pop's fickle corner? The fact that 'Cars ('93 Sprint)' already features on the soundtrack album to 1994's box office movie *Speed*, whilst 'Cars ('Premier Mix)' is currently being used to front a UK nationwide Carling Premier television and cinema commercial on an eight month run, is undoubtedly serving to heighten his profile — as has the TV-advertised follow-up Gary Numan/Tubeway Army compilation album, *The Premier Hits*.

The irony of this classic song's fourth chart placement (respectably re-entering at number 17, almost 17 years after the original) is not lost on Gary, who joked, "It's quite possible that my career is going to be saved by a lager commercial, and I don't even drink!"

On a more positive note, rumours are abounding in the music press over a planned Gary Numan tribute album featuring a diversity of 'fashionable' artists.

Likewise, Dave Grohl's Foo Fighters cover of 'Down In The Park' on the *X-Files* album should further assist in the kudos stakes. It would appear that Gary Numan's influence on the popular music scene is at last being recognised.

SOS

FORTHCOMING ATTRACTIONS

Aside from Gary's forthcoming studio album, *Exile*, other projects in the offing from the Numan camp include *Human*, an instrumental album of short pieces dating from Gary's score for a low-budget horror film called *The Unborn*; a dance album of remixed/reworked Numan tracks by a team called Techno Army, featuring Gary himself on vocals; an "unplugged-style" acoustic album; an album of ballads culled from his lengthy recording career; plus his eighth live album and accompanying video recorded during the 1996 Premier tour.

A second recording company, Salvation Records, has additionally been set up for "other bits and pieces that I want to do, like future collaborations." Releases thus far include the Radial Pair video soundtrack and the fan club-only Babylon CD series — essentially all of Gary's Numa B-sides and remixes, previously only available on vinyl.

Gary will be playing at two UK festivals in August 1996, namely Chelmsford and Warrington on the 17th and 18th respectively. Pulp are the headline act with Numan fourth on the bill, behind Cast and Supergrass. The fact that Gary has never even been to a festival before, let alone performed at one, makes these events a particularly interesting proposition.

A GNFC (NuMnD), PO Box 14,
Staines, Middlesex TW19 5AA.
E tonywebb@numan.co.uk

info

SOUND CONTROL
Professional Audio

GLASGOW...

- 61 JAMAICA STREET
- GLASGOW, G1 4NN
- PHONE- 0141-204-2774
- FAX- 0141-204-0614

MANCHESTER...

- UNIT-5...
- RED ROSE CENTRE
- REGENT ROAD
- SALFORD, M5 3GR
- PHONE- 0161-877-6464
- FAX- 0161-877-6363

NEWCASTLE...

- 10 MOSLEY STREET
- NEWCASTLE, NE1 1DF
- PHONE- 0191-232-475
- FAX- 0191-222-1837

SOUND CONTROL
MAIL ORDER

- THE ELGIN WORKS
- DUNFERMLINE
- FIFE, KY12 7SD
- FREEPHONE 'SALES ONLY'-
0800-52-52-60
- FAX- 01383-725733

EMAIL...

jmt@soundcontrol.co.uk

AKAI DIGITAL...



FULL RANGE OF AKAI SAMPLERS
AND DIRECT DIGITAL HARD DISK
RECORDING SOLUTIONS FROM
THE
WORLD'S
VERY BEST
IN THIS FIELD!



SOUND CONTROL

Professional Audio

QUITE SIMPLY, THE ONLY CHOICE
FOR PROFESSIONAL AUDIO...

YAMAHA DIGITAL MIXERS...

PRE-PRODUCTION OR RECORDING,
FRONT-OF-HOUSE OR POST-PRODUCTION YOU CHOOSE...
THESE MIXERS ARE SO FLEXIBLE - GIVEN THEIR ON-BOARD
EQ, MIDI CONTROL AND FX AND FADER AUTOMATION ETC...
WITH PRICES THAT WON'T BREAK THE BANK, YOU CAN CALL US NOW
WITH TOTAL CONFIDENCE OF A SERVICE THAT IS SECOND TO NONE



PROMIX-02R



PROMIX-01

FOSTEX DMT-8 DIGITAL MULTITRACK...

A DIGITAL EIGHT TRACK WITH CONVENTIONAL TAPE TRANSPORT
CONTROL AND PRECISE PUNCH-IN/OUT!

- 12 MINUTES OF CD AUDIO ON ALL 8 TRACKS • FULL EDITING WITH UNDO FACILITY
- 4 TRACK SIMULTANEOUS RECORDING • MIDI TIMECODE WITH NO TRACK LOSS!
- ON-BOARD METRONOME • PROGRAMMABLE TEMPO MAPS • PRECISION JOG SHUTTLE • OPTICAL S/PDIF OUTPUT



ROLAND VS-880 DIGITAL MULTITRACK...

A DIGITAL EIGHT x EIGHT VIRTUAL TRACK RECORDER WITH
DIGITAL MIXER, OPTIONAL DIGITAL EFFEX AND SCSI II

- 8 x 8 VIRTUAL TRACKS • VARIABLE SAMPLE RATES • INTERNAL IDE DRIVE OPTION
- EXTERNAL SCSI AS STANDARD! • 14 CHANNEL DIGITAL MIXER
- AUTOMATED MIX/PAN BY MIDI • OPTIONAL MEGA EFFEX BOARD
- INTUITIVE 'TAPE-TYPE' TRANSPORT • ANALOGUE IN, DIGITAL IN/OUT
- CAN RECORD DIRECTLY TO IOMEGA ZIP/JAZZ DRIVES- NO BACKUP NEEDED!



OVER 35 MINS TOTAL
RECORDING (ALL 8 TRACKS)
FROM A TYPICAL 540MEG
HARD DRIVE OPTION!

DIGIDESIGN PRO-TOOLS...

WE ARE NOW DIGIDESIGN PRO-TOOLS DEALERS
IN BOTH OUR GLASGOW AND MANCHESTER
PRO AUDIO CENTRES. PLEASE CALL US NOW
TO ARRANGE A DEMONSTRATION OR TO DISCUSS A COMPLETE SOLUTION
TO ALL YOUR HARD DISK RECORDING REQUIREMENTS.



DIGIDESIGN SESSION-8...

ALL OUR PROFESSIONAL AUDIO CENTRES
STOCK & SUPPLY THE DIGIDESIGN
SESSION-8 SYSTEMS FOR BOTH THE MACINTOSH AND THE P.C. PLATFORMS.
CALL US NOW TO TAKE ADVANTAGE OF OUR VERY LATEST PRICES...



DIGIDESIGN AUDIOMEDIA-2/3...

WITH BOTH PLATFORMS NOW SUPPORTED,
THIS IS PROBABLY THE BEST TIME TO BUY THIS C.D.
QUALITY DIRECT-TO-DISK, 2 TO 4 TRACK
RECORDING AND EDITING PACKAGE.
DON'T FORGET TO ASK US ABOUT THE SPECIAL DEALS
ON OFFER ON OUR RANGE OF HIGH CAPACITY AUDIO-VISUAL HARD DRIVES.





Sweet Harmony

Offering 5-part harmony at a budget price, the MV5 is Digitech's easiest to use pitch-shifter yet. The DAVID MELLOR Singers provide the tune...

DIGITECH MV5 VOCAL HARMONY PROCESSOR

pros & cons

DIGITECH MIDI VOCALIST £450

pros

- Simple-to-use and effective.
- No LCD display (you don't need one!).
- No nudge buttons (you don't need them).
- Good quality pitch-shift.

cons

- 'Wall-wart' external power supply.
- No phantom power for microphone.

summary

Probably the simplest intelligent pitch-shifter available, and one of the most effective. Doesn't offer every function of the more expensive Digitech Studio Vocalist, but it is a lot easier to use to the full.

SOUND ON SOUND

Compared to many effects units, the Digitech MV5 MIDI Vocalist is extraordinary on two counts: it has no LCD display and it features large, illuminated, user-friendly buttons. These features alone tell me that the MV5 is going to be friendly to use, not fiddly, that I am likely to get quick results from it, and that I shall be able to exploit its full potential.

Perhaps it's a phase I'm going through since I threw out my studio computer (shock! horror!) and started *listening* to the music I was trying to create, but I really do feel the time has come for manufacturers to concentrate on giving us the features we *need* in a particular unit, rather than simply making the feature list as long as possible, with the result that many devices are so complex that 95% of their features never get used. The MV5 is a step in the right direction — it does what it does cleanly and simply. You will need the manual to get started, because this device performs tricks other effects units cannot, but with only 10 minutes experience under your belt you can let your creativity take over and *have fun!*

INTELLIGENCE COUNTS

The Digitech MIDI Vocalist is an intelligent pitch-shifter. This means that it 'understands' the rules of harmony and can add harmonies to a lead vocal that are appropriate to the key of the song. (Brian May soundalikes may substitute 'guitar' for 'vocal' in the previous sentence, because the unit is not restricted to vocal processing.) Being intelligent and bestowed with a certain amount of good taste, this is not a unit for creating weird, delayed feedback pitch-shift effects, although you *can* certainly construct such sounds with the aid of a delay unit and a little bit of mixing console know-how.

Up to four harmonies are allowed in four distinct and useful modes of operation. Taking a look at the front panel first, the most obvious feature is the group of six buttons set into a musical staff with a treble clef. If you were thinking that the positions of the buttons on the staff meant something, then you had been fooled too. It's simply a design feature, but the fact that they slope at an angle does represent the *relative* pitches of the harmonies, if not the actual notes. These six buttons allow the user to select four harmonies spaced above or below, or in unison, with the input note. It's a quick and easy way to create the harmony voicing you are looking for and the MV5 will select the actual pitches for you.

Bypassing for the moment a group of six buttons which select the mode of operation and the key of the song — more on these later — we come to three rotary controls which set the input



Superior Sampling and Synthesis is *not* an option...

It comes standard in E-mu's new
Emulator 4 Keyboard, together with:

- Big Polyphony — 64 or 128 voices
- Realtime Sound Control — digital modular synthesis at your fingertips
- SoundSprint™ — online-access to a massive internal sound library

Then include Z-plane filter synthesis,
modular patchcords, digital I/O, on-board FX,
re-sampling, sequence player and controller,
SCSI, 8 outputs, 76-note keyboard, internal
hard drive, floppy drive, graphic LCD,
thumby button, and more.

Fully loaded and ready to play...

Take it home.
Take it on the road.
Take sampling from studio to stage
with complete confidence.

Emulator 4 Keyboard

Advanced sampling and synthesis technology in an inspirational package

 E-mu Systems, Inc.

To find your local E-mu dealer, contact: PO Box 660015, Scotts Valley, CA 95067-0015 • 408.438.1921
UK Office: Suite 6, Adam Ferguson House, Eskmills Industrial Park, Musselburgh, EH21 7PG • 44.131.653.6556

DIGITECH MIDI VOCALIST



CHORD TYPES

In Chordal Mode, the Digitech MIDI Vocalist will recognise any of the following chord types, in any key:

- Major
- Major 7
- Minor
- Minor 7
- Dominant 7
- Major 6
- Augmented 7
- Minor 7 flat 5
- Diminished
- Suspended
- Suspended 7
- Minor-major 7.

SCALE TYPES

In Scalic Mode, the Digitech MIDI Vocalist can be set to any of the following scale types, in any key:

- Major
- Major raised 7
- Major lowered 5
- Major 6
- Dorian
- Minor
- Harmonic Minor
- Diminished
- Whole Tone

MIDI: THE OUTER LIMITS

Although the Digitech MIDI Vocalist is admirably easy to use, those who like to push their equipment to its limits will find that there are extra functions accessible only via MIDI. You may have noticed that the MV5 doesn't offer factory or user preset programs. It doesn't need to, since you can set the unit from scratch almost as quickly as you could recall a preset. You might think that this means you can't automate the MV5 as

you can with other effects units, but you would be wrong. Each time you press a button on the MV5, a MIDI message is output which you can record into a sequencer. This could include Harmony Mode, Voicing, Key/Scale, Chord Root/Type and Setup changes. When you replay the sequence, the MV5 will respond as though you were pressing the buttons yourself. This includes the Bypass control, which receives more use than the bypass

function on any other type of effects unit, since the MV5 creates harmonies in response to the input signal all the time, and you almost certainly wouldn't want those harmonies to appear all the way through the song. You can also send a MIDI Control Change message to set the vibrato depth, which cannot be set from the front panel. Extra voicings are available via MIDI messages, just in case you can't find what you are looking for from the six front panel Harmony Voicing buttons.

▶ level, the output level of the lead vocal (the source signal) and the level of the harmonies. It couldn't be simpler. A front panel XLR is provided (sadly, without phantom power) for a microphone input.

For those of you who are as interested in the back of equipment as in the front panel, the principal features are a line input, stereo outputs, and the normal trio of MIDI sockets. Another socket is provided for the Digitech FS300 footswitch, which can be used to control the Set Key, Harmony Mode, and Bypass functions. A single momentary action footswitch may be used to control the Bypass function. Also on the back is the input for the 'wall-wart' power supply. I'll continue to complain about these devices as long as manufacturers use them because, as well as being inconvenient, I know that the easiest way to destroy equipment is to get your warts mixed up. This is easily done, since they seem to come in an endless variety of different voltages and polarities. There is a fortune awaiting the inventor who can design a powering system that is as convenient for the manufacturer (allowing them to sell identical units worldwide) as a wall-wart and works for the user, too.

MODUS OPERANDI

Having dealt with the hardware, let's look individually at the MV5's four modes of operation.

Chordal Harmonies

To produce chordal harmonies, the MV5 needs two inputs. One is your voice (or lead instrument) and the other is MIDI information from your keyboard. In this instance the keyboard isn't used to generate sounds, just to tell the MV5 which harmonies to create. In a studio situation you would probably record the lead vocal onto tape and spend as much time perfecting it as you need, whilst the MV5 quietly bides its time in the rack. Then you could record basic chords into your synchronised

sequencer, which you would then play back via MIDI into the MV5. The MV5 will analyse the chords you play, and automatically select suitable harmonies based on these chords and the settings of the Harmony Voicing buttons on the front panel. As you record the harmonies to tape you will probably drop in and out of record mode, so that harmonies only go where you want them, since the MV5 in this mode will always create harmonies according to the last MIDI data it received.

As well as being useful in the studio, the MIDI Vocalist could be exploited in a live situation by a singer/keyboard player performing solo in a bar, for instance. In this situation, the keyboard is being used for accompaniment, as well as transmitting MIDI data to the MV5 telling it about the chords being played. Here we have potential for confusion, since any fancy arpeggios, grace notes or glissandi could fool the MV5 into creating the wrong harmonies.

Obviously a little bit of extra care is necessary in playing, along with tasteful use of the Bypass footswitch. To help matters though, the MV5 can be instructed to respond over a set range of MIDI notes only and ignore all others. This is easy to achieve, and it would only take a moment to reset the zone between songs.

If you are wondering whether the MV5 has a full understanding of harmony, or whether it can only handle Status Quo songs, then take a look at the list of chord types (see box). The great thing is that even if you don't know a flattened fifth from a sharpened Chinagraph, the MV5 does and the harmonies will always fit in with the chords you are playing.

Scalic Harmony

While Chordal mode will nearly always work for most types of music, it tends to produce harmonies that are a bit static. In fact, they are only as static as the MIDI notes you send to the MV5, but one's fingers always seem tempted to the same intervals as long as they seem to be working. Scalic mode, on the other hand, doesn't always work for every style of music, but it will produce much more activity in the harmony lines. If you think of Chordal mode as a choir backing a solo voice, and Scalic mode as a more interactive style of harmony, then you won't go far wrong. Alternatively you can think of Chordal as 'Amazing Grace' mode, and Scalic as 'Eagles' mode. (It's OK — they're trendy again!)

In Scalic mode, you don't need to play chords all the way through a song. A single chord, containing the important notes of the scale, played at the beginning will be enough to tell the MV5 which key you are in and which scale type you require. If you change key or scale type during

BABEL SYSTEMS



SAMPLERS



Akai S2000
Akai S3000 XL
Akai S3200 XL
Kurzweil K2500
Emu ESI 32
Kurzweil K2000 V3

MIXERS

Behringer MX8000
Mackie
Tascam
Soundtracs
Soundcraft Spirit
Studiomaster
Yamaha Pro Mix 01



MULTITRACK

Alesis A-DAT
Akai DR4d
Akai DR8d
Digidesign
Soundscape
Tascam DA88
Yamaha CBX-D5



SYNTHS

Alesis Quadrasynth
Emu Morpheus
Emu Proteus
Emu Ultraproteus
Emu Classic Keys
Korg X3, X5, 05RW,
X5DR, 14, 03RW, X3R
Fatar keyboards
Roland XP50
Yamaha SY35, SY85



COMPUTERS

Apple Macintosh, Authorised reseller for Performa and Powermac range. Please call for our best prices.

OUTBOARD

Alesis DigiTech
LA Audio ART
Behringer
Lexicon Drawmer

Phone 0181 749 8222 for the UK's best price quote

Hammersmith, Shepherds Bush, London W12 8PA

<http://www.bogo.co.uk/babel/babelhomepage.html>

*Not a tape
in sight!*

AKAI DR-16



YAMAHA 02R



*Available from
Europes leading
Pro-Audio Dealer*

SYSTEMS WORKSHOP

PROFESSIONAL AUDIO TECHNOLOGY
The Old Smithy, Church Street, Oswestry, Shropshire SY11 2SP
Tel 01691 658550 Fax 01691 658549
CIS Mail: 100330,3222

“...even if you don't know a flattened fifth from a sharpened Chinagraph, the MV5 does, and the harmonies will always fit in with the chords you are playing.”

► the song, then you will need to input another chord or the harmonies will be out of key. Notice that once you have specified a key, the MV5 handles all the chord changes that are customary in that key for the type of scale selected. (See box for a list of scale types.) Apart from the common-as-muck Major and Minor varieties, highlights of the scale type list are the Dorian scale, which adds the minor third and flattened seventh that are appropriate for blues style harmonies, and also the Whole Tone scale, which creates instant musical impressionism à la Debussy.

In Scalic mode, the Harmony Voicing buttons also define the spacing of the harmonies. I didn't mention it earlier, but normally the MV5 corrects the pitch of the harmonies. So if your singing is out of tune, at least the backing vocals will be OK (provided you sing within a quarter tone of the correct pitch). Sometimes, however, too much perfection can get a bit boring and you might wish for a little sliding (portamento) of the notes to give a more relaxed feel. If so, then all you have to do is send an upward MIDI pitch-bend command to the MV5 and it switches into a mode where the harmonies track the vocal precisely.

Vocoder Mode

Now don't go thinking that there is a full-blown vocoder built into the Digitech MV5 as well as a harmony processor. 'Vocoder' is about as descriptive in this respect as the word 'coffee' on a vending machine — it indicates the flavour of what you are about to receive without actually promising the real thing!

In Vocoder mode, all the intelligence of the MV5 is bypassed (as are the Harmony Voicing buttons) and harmonies are created which exactly correspond to the notes you play on your MIDI keyboard. Vocoder mode is actually *more* versatile than the other modes because you can create exactly the harmonies you want, whether or not they fit into 'proper' chords or scales. You could even take an out-of-tune vocal recording and feed it through the MV5 while playing the correct notes on the keyboard, and magically a perfectly in-tune vocal would result. In fact, the original vocal doesn't even have to be close to the right notes, because the MV5 will harmonise a dog's bark if necessary. Of course, there are limits to how well this process can work. Basically, the more work the MV5 has to do, and the more the vocal slides about, the less believable the end result becomes. Overall, I'd say this vocoder technique is best applied to backing vocals, where a little bit of 'flanginess' might go unnoticed in the mix.

Detune Mode

This is another mode where the intelligence of the Digitech MV5 is put on hold, yet it could easily become the mode in which the unit is most used. One of the most common requirements in recording is for some sort of 'thickening up' of the sound, especially on vocals. If you have ever sat in front of the mixing console wondering what you could do to turn that thin, weak vocal wafting out of your monitors into a fine, healthy specimen, bursting

MV5 SPECIFICATIONS

| | |
|------------------------|--|
| Microphone Input: | Balanced XLR, >2kohms |
| Line Input: | Unbalanced jack, >10kohms |
| Input Level (mic): | -31dBu to -3dBu |
| Outputs: | Two unbalanced jacks, 1.5kohm |
| Maximum output level: | +14dBu +/-2dB |
| Sampling: | 16-bit linear at 31.25kHz |
| Frequency Response: | 30Hz to 11.5kHz, +0.5/-3.0dB through DSP 30Hz to 30kHz, +/-1.5dB, analogue bypass |
| Signal-to-Noise Ratio: | >86dB A-weighted through DSP >92dB A-weighted, analogue bypass |
| THD: | <0.03% at 1kHz |

with life and vigour from the drive units, then this mode could represent one potential solution to your problem. You can achieve a similar effect with many other effects devices, but on the MV5 it's achieved with the push of a couple of buttons — and as we all know, the sounds which are easy to get at are the ones that are going to be used.

There are three possibilities: Light Detune adds harmonies at plus and minus seven cents to the original (one cent is one hundredth of a semitone), Heavy Detune adds harmonies at plus and minus 12 cents, and for the strongest effect you can combine the two. If you have used this trick before, you will understand its benefits and limitations, but I think that Digitech have provided three options which will cover most eventualities and can be accessed very easily.

A SOUND SENSATION?

Digitech have an immense amount of experience in designing pitch-shifters, so you would be entitled to expect pretty good sound quality from the MV5. If you bear in mind that real-time pitch-shifting is the most difficult effect to achieve, and that perfection will probably remain unattainable for many years yet, then I think most users will be very satisfied with the sound of the MV5. Even though the 31.25kHz sampling rate only results in an audio bandwidth of 11.5kHz, when used for backing vocals nobody is going to point at you and accuse you of cheating with a fancy effects unit. They'll believe you sang all the harmonies for real. I couldn't say that the pitch-shifted output sounds absolutely as clean as the original signal, but I couldn't say that about *any* pitch-shifter — even the most expensive models.

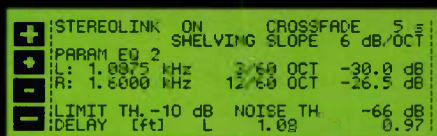
In conclusion, I'll repeat myself and say that I think you will be very satisfied with the Digitech MV5. It does a good, solid job of work and you don't need a brain expansion to use it. **SOS**

E £449.95 inc VAT.
A Arbiter Music Technology,
 Wilberforce Road, London NW9 6AX.
T 0181 202 1199.
F 0181 202 7076.

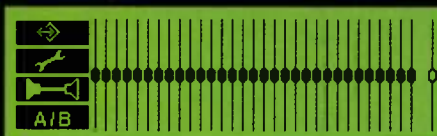
info

EVERY PICTURE TELLS A STORY.

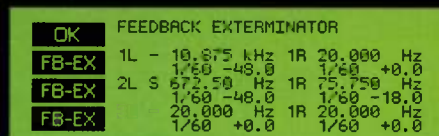
ULTRA-CURVE A 64-Bit Dual-DSP Processor Mainframe With Auto Graphic EQ, Real Time Analyzer, Parametric EQ/Notch Filter, Feedback Eliminator, Limiter, Gate, Input/Output Level Meter, MIDI Implementation, Delay Option And More.



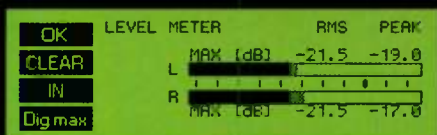
PARAMETRIC EQ/NOTCH FILTER
3 bands per side of parametric equalization with +16 to -48 dB of gain, fine-tunable down to 1/60th of an octave.



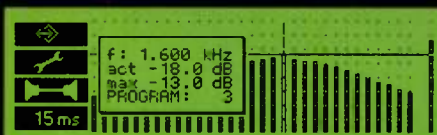
DIGITAL STEREO 31-BAND, TRUE RESPONSE AUTO-Q GRAPHIC EQUALIZER
Up to 100 EQ curves can be stored, copied, compared, added and subtracted.



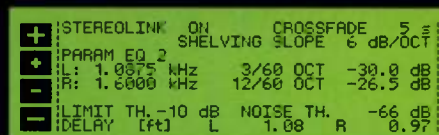
FEEDBACK ELIMINATOR
Any of 6 parametric EQ bands can "seek and destroy" unwanted feedback frequencies dynamically.



INPUT/OUTPUT METERING
The ULTRA-CURVE offers full input/output high precision metering capability.



REAL TIME ANALYZER
High-resolution RTA with Peak, Hold, Variable integration time and 10 user memories. A noise & sinewave generator enables for automatic room-equalization



MULTIBAND LIMITER, NOISE GATE
Multiband Limiter with variable threshold and IGC* protects against overload without distortion. Digital Noise Gate with IRC** provides a level-dependent expansion ratio for "jitter-free" performance.

These pictures only tell part of the story. If you're involved in sound installation, touring sound or simply looking for the ultimate digital signal processing "tool kit" for your musical suite, audition the ULTRA-CURVE.



Your Ear Is Our Judge

MSRP for the ULTRA-CURVE DSP 8000 is £649.00

*Interactive Gain Control • **Interactive Ratio Control • For more information about the new ULTRA-CURVE DSP 8000 and the Interactive World of Behringer, please ask your local dealer or contact:

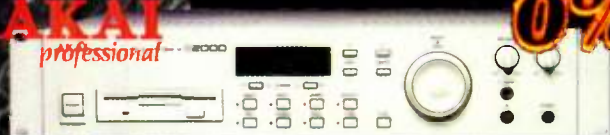
BEHRINGER U.K., St. Vincent House, 59 Woodbridge Road, Guildford, Surrey GU1 4RF. Tel: +44 (0)1483 458877. Fax: +44 (0)1483 458822.

BEHRINGER Specialized Studioequipment GmbH, Otto-Brenner-Str.4, D-47877 Willich. Tel: +49 (0)2154-92060. Fax: +49 (0)2154-428523.

DAWSONS

Roland

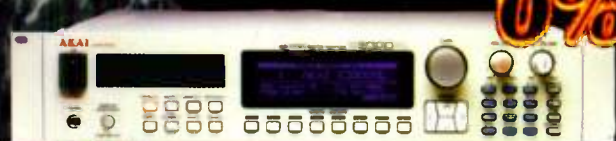
AKAI
professional



0%

S2000
10M Memory
Free Delivery

£199 Deposit
plus 18 monthly payments of £30
Total 0% Credit Price £1089



0%

S3000XL
10M Memory
Free Delivery

£499 Deposit
plus 18 monthly payments of £130
Total 0% Credit Price £1799



VS880 Package

Roland Effects Board
Roland 850M Hard Drive
Headphones & Microphone

0%

£417 Deposit
plus 18 monthly payments of £99
Total 0% Credit Price £2199

Roland



£165 Deposit
plus 18 monthly payments of £40
Total 0% Credit Price £365

ALESIS

NEW



ADAT XT
GENUINE!!

£2585 inc. VAT!!!
including free delivery to UK Mainland
and Northern Ireland

ALESIS



MIDIVERB IV

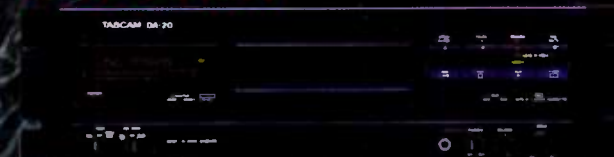
£325
including free delivery to UK Mainland
and Northern Ireland



MICROVERB IV

£245
including free delivery to UK Mainland
and Northern Ireland

TASCAM



DA20 **£189** Deposit
plus 18 monthly payments of £30
Total 0% Credit Price £769

Roland JV1080



£199 Deposit
plus 18 monthly payments of £30
Total 0% Credit Price £1199

GENELEC



Genelec speakers
are now on
permanent
demonstration at
our Warrington
branch. Bring
along your own
source material
Listen to the
results

PACKAGE PRICES!!!

Dawsons specialises in Pro-Audio packages. We can supply desks, outboard, amplification and cabling (we even sell MACs and PCs). The more items you buy, the greater the discount. We believe our buying power allows you to get the best deal, all from one shop. Call us now on 01925 245422 and find out how you can benefit.

DAWSON'S

Fostex SPIRIT

0% Finance

Deals of the Month

1. Folio SX & Fostex D80

- 20 inputs inc 4 stereo channels
- 4-bus mixing facilities
- 8 Direct Outs with pre-post fade
- 3 band EQ with mid sweep
- 3 auxillary sends

- 850 Meg Drive Supplied as standard
- 8 Track simultaneous recording
- units sync together for future expansion
- Uses Inexpensive IDE Hard Drives
- 100% Compatible with DMT-8

£699 Deposit
plus 10 monthly payments of £130
Total 0% Credit Price £1899

2. Spirit Studio 16.8.2 & Fostex D80

- Complete with.....
- Spirit Absolute 2 monitors
 - Samson Servo 150 Amp
 - Fostex Headphones
 - Looms to connect and speakers cables


£769 Deposit
plus 10 monthly payments of £135
Total 0% Credit Price £2189

3. Spirit Studio 24.8.2 & Fostex D80

- Complete with.....
- Spirit Absolute 2 monitors
 - Samson Servo 150 Amp
 - Octava MK219 Condensor Microphone
 - Fostex Headphones
 - Looms to connect and speakers cables


£999 Deposit
plus 10 monthly payments of £150
Total 0% Credit Price £3699

One of the main benefits of the Fostex D80 is its ability to allow **alternative hard drives** to be used for recording. These are connected to the D80 by using Fostex's own caddies (available at £35 inc VAT). Please call us for the latest up to date list of **compatible drives** alongwith prices that will work with the D80 and with the new **V2 Fostex DMT8**. An **extension lead** is also available (at £35 inc VAT) that allows the D80's front panel to be removed and resited in a more **convenient** location.




Notepad
DAT Quality
10 Input
3 Band EQ
2 RIAA Inputs
Effects send
Effects return
48V Phantom Power
Complete with
Power Supply and
Free Delivery to UK
Mainland and
Northern Ireland

£199




Folio SX
DAT Quality
20 Inputs
4 Stereo Channels
100mm Faders
8 Direct Outs that
are switchable
pre/post fade
Dedicated Mono
Output socket
3 band EQ with
Sweep Midrange
48V Phantom Power
Ultramic™ Pre-Amps

£199 deposit
plus 10 monthly payments of
£40. Total 0% Credit Price £2399




Absolute 2s
Ideal for small,
medium or large
recording studios.
Our best-selling set
of speakers ever, we
have teamed these
up with a superb
amplifier, the
Samson Servo 150,
free speakers leads
and free delivery!

£469




Absolute Zeros
Compact nearfield
monitor for accurate
mixing on a budget.
We have teamed
these speakers up
with the Pioneer
A103 amp, free
speaker leads and
delivery to provide
an ideal home
studio monitoring
set-up

£319



D80
850Meg Internal
drive provides
approx 20 minutes
of CD quality
recording alongwith
8 Track simultaneous
recording.
Additional units
including DMT-8 can
sync together for
future expansion

£399 deposit
plus 10 monthly payments of
£110. Total 0% Credit Price £1499



DMT8
540Meg Internal
drive provides
approx 12.5 minutes
of CD quality
recording. A built-in
mixer allows
a CD quality mobile
8 track recording
studio that is 100%
compatible with the
Fostex D80

£399 deposit
plus 10 monthly payments of
£110. Total 0% Credit Price £1499

A Music Store for Life - not just for Christmas!

tel: 01925 245422

65 Sankey Street, Warrington, WA1 1SU
Fax 01925 417812

E-Mail: proaudio@dawsons.co.uk
Written quotations available upon request

Quiet Life

When using effects, it's all too easy to add noise to your mix — and it's not always the fault of your effects units. PAUL WHITE offers a few practical tips for achieving quieter mixes.

People often complain that their effects units are noisy. Frequently, though, the entire blame for excess noise doesn't rest with the effects units themselves, but is a result of not enough attention being paid to proper gain structure within the mixer, and to ensuring that nothing reaches the effects unit that shouldn't. The input level gain on the effects

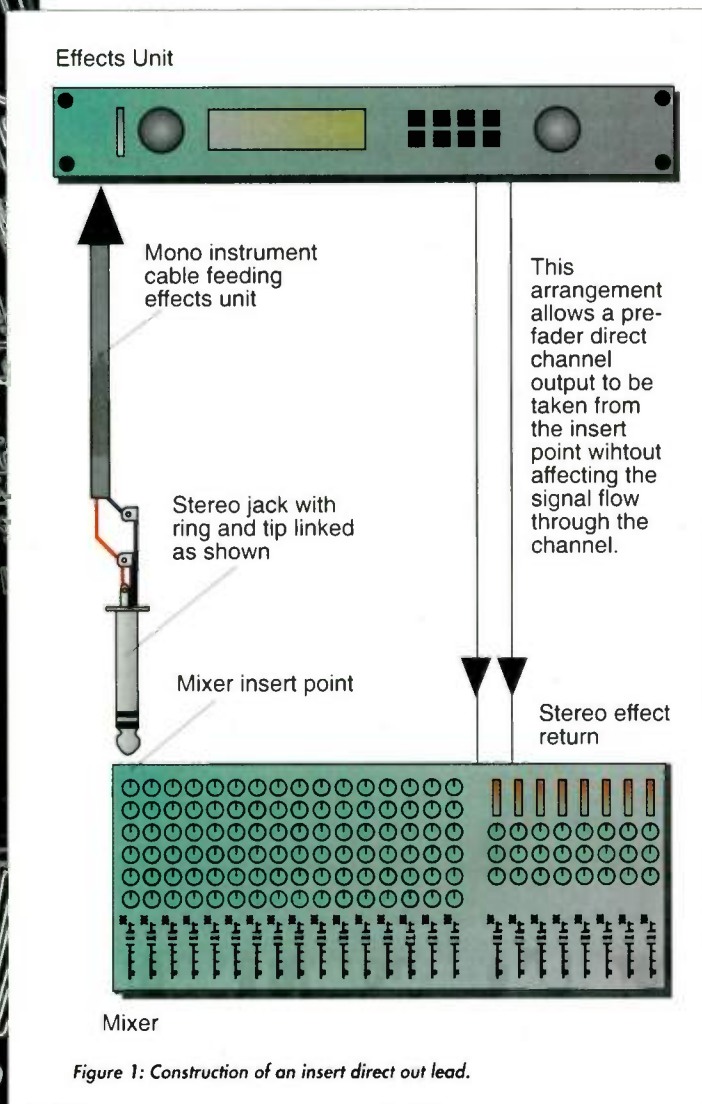
MINIMISING MIXER AND EFFECTS NOISE

unit itself is also vitally important, because too low a setting will result in excess noise, while too high a setting will cause distortion.

MINIMISING MIXER NOISE

Even though today's mixers are pretty quiet devices, a certain amount of noise is generated by the mixing circuitry itself, and though this can be minimised, the laws of physics conspire to ensure that some noise remains. One inescapable fact is that the more channels you mix together, the more noise (known as mix buss noise) you'll produce, even if some channels are muted. Optimising your input gains using the PFL (Pre-Fade Listen) buttons and meters will help achieve the best signal-to-noise ratio, but nothing you can do will eliminate all noise. Not only does mix buss noise occur when you mix your input channels down to stereo or to the desk's sub-groups, it also occurs in the aux send busses, so the more channels you have (all with aux sends), the more hiss you'll notice at the input of your effects unit.

Obviously it makes sense to turn the aux send controls right down on any channels not being used, but although this removes channel noise from the scene, it does nothing to help with mix buss noise — you could turn all your aux sends to zero and the noise would still be there. If more channels mean more noise, then fewer channels mean less noise, and if you have a mixer which will allow you to switch aux sends to different busses, you have a way to make unwanted channels effectively disappear. Let's say that two of your sends are switchable to aux busses 1,2 or 3,4. Providing you don't need all four effects busses, you could route channels which don't require effects to aux busses 3,4, leaving only those channels which need effects routed to 1,2. Now the mix buss noise at aux sends 1,2 will be reduced, because fewer channels are contributing. All unwanted channels are sending their mix buss noise contribution to the unused aux 3,4 outputs. You can do the same with your main stereo mix buss by ensuring that



Minimising Mixer and Effects Noise

▶ unused channels are not routed L-R. As mentioned earlier, mere muting isn't enough.

It's also important to ensure that you have sensible settings on the mixer aux send control being used:

- The channels with the highest effect levels should have their sends set at around three-quarters of maximum, and the master send control should be in a similar position.

- The input gain control on the effects unit itself should then be set while watching the unit's meters. If it has selectable +4dBu or -10dBV level switching, choose the correct setting to match your mixer. This will usually be the one that lets you work with the input gain control closest to the centre of its range.

- Finally, set the effect output level to three-quarters of maximum, and

use the aux return gains on the mixer to set the amount of effect you hear. Once you've done this, you can go back to using the channel aux sends to make adjustments in the usual way.

GO DIRECT

If you have an effect that only needs to be applied to one mixer channel, it makes little sense to use the aux send system, because you'll accumulate a lot of noise for no purpose. A better option is to drive the effects unit from the channel direct output (which

is generally post-fader), or, if you don't have a direct output jack, use the insert point. You can take a pre-fade feed from an insert point without breaking the signal path by using a special lead with a stereo jack at the mixer end, where the ring and tip connectors are linked together; instructions for making such a lead are shown in Figure 1. Using this method is less than ideal, because the effect level will be independent of the channel fader setting, but if the track will require little or no gain adjustment during the course of the mix, this limitation should be acceptable.

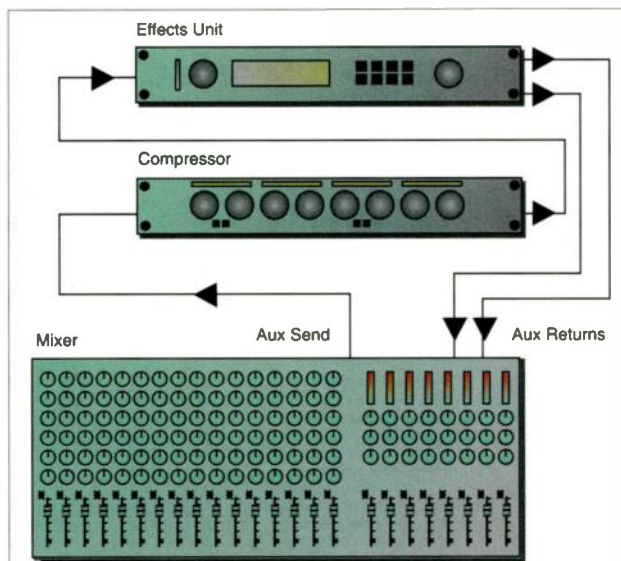
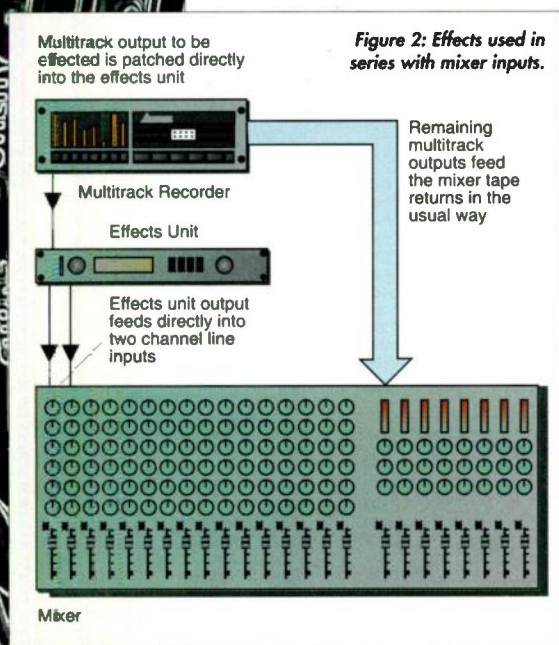
If you find yourself without insert points, there's still a way out, because you can take the appropriate multitrack output directly into the effects unit, and then feed the two outputs (presuming the effect is stereo) into two mixer channels, as shown in Figure 2. The dry/effects balance will now have to be set using the effects unit's own Mix control.

GAIN WITHOUT PAIN

Applying the above techniques should make things a lot quieter, but there are still further gains to be made. For example, most digital effects units overload quite unpleasantly, which forces you to set a lower than ideal input level to leave an adequate safety margin. If you have a spare compressor/limiter lying around, you can patch this in before the effect and set it to act as a limiter, by dialling in the highest compression ratio possible. Set the threshold so that the compressor limits at a level just before that at which the effects unit overloads, and you should be able to increase the average signal being fed into the effects unit quite noticeably. In turn, this will improve the effect unit's signal-to-noise ratio. The actual setting of the limiter should be done by ear, as most effect unit meters are notoriously unreliable. Audible distortion may occur before the meter hits the red on some effect patches, especially those with lots of feedback, such as flanging. Figure 3 shows how a limiter may be used in conjunction with an effects unit.

It is also possible to gate the input to your effects unit, or to patch in a single-ended noise reduction unit (SNR). A gate will ensure that the input to your effect unit stays firmly off unless some signal is being fed into it, and an SNR's dynamic filtering will bring about an improvement in noise performance even when signal is present. If you're using a compressor with a built-in expander/gate to limit the effects unit input, the internal gate may be used for this purpose. As a rule, it's a bad idea to process the output of an effects unit in any way, as this invariably compromises the quality of any reverb tails. However, MIDI muting systems may be used to mute the outputs from effects units until they are required.

Ultimately, the absolute signal quality available is governed by your equipment, but more often than not, equipment is used well below its maximum potential. Use the simple techniques discussed here, and you should find your mixes noticeably less noisy in the future.



By setting the compressor to act as a limiter, protection against overload is provided for the effects unit. This removes the need to leave a generous amount of safety headroom and consequently improves the signal-to-noise ratio.

Figure 3: Using a limiter before an effects unit.

Meet the new Yamaha P-150 - the digital piano that only Yamaha could make. With 100 years experience in crafting the finest concert pianos money can buy, we know when a piano sounds right. We know when it feels right too. The P-150 is the next best thing to a Yamaha Grand. And a rather more realistic proposition for most of us. Featuring 32-note polyphony in stereo, 6 fully editable digital effects, two 3-band digital EQs plus 24 user performance memories and a MIDI spec.

which leaves most dedicated master keyboards standing, the P-150 represents unrivalled value for money. So for the ultimate in realism of sound and touch in a digital piano, look no further. Call to find out more, or play it at your nearest Yamaha Hi-Tech dealer.

Get REAL

Call Now for
Free Information pack and
Demonstration CD
(while stocks last)

01908 369269



Yamaha-Kemble Music (UK) Ltd. Pro Music Division

YAMAHA

MRP £1,899 inc VAT

215 Harwich Rd
Colchester
Essex
CO4 3DF

tech-mate^{uk}

Tel: 01206
793355
Fax: 01206 791371

E-Mail: sales@techmate.demon.co.uk

Monster Hi-Tech & Pro Audio Sale!!! Very Limited stocks HURRY!!

Synths & Keyboards

| | |
|-----------------------------|-------------|
| Roland XP-10 ex-demo | £449 |
| Roland D550 s/h | £349 |
| Roland RD300S s/h | £599 |
| Yamaha QS300 ex-demo | £799 |
| Yamaha SY35 s/h | £249 |
| Roland JD800 s/h | £1199 |
| Alesis QS6 new | £749 |

only 3 available

| | |
|-------------------------------|------|
| Yamaha MU50 ex-demo | £299 |
| Yamaha MU 80 new 1 only | £469 |
| Fatar 1176 | £699 |
| Fatar Studio 900 | £529 |

Mixers / FX

| | |
|--------------------------------|-----------|
| Samson MPL 2242 - 1 Only | £579 |
| Samson MPL 1640 - 3 Only | £399 |
| Samson MPL 1502 - 2 Only | £239 |
| Samson S6 Powered Mixer | £325 |
| JBL Control 1 | £249 pair |
| JBL Control 1 ex-demo | £189 pair |
| Samson 2x31 graphic | £249 |
| Samson Servo 500 ex-demo | £279 |

SY85 / TG500

Ethnic card set
2x cards Brilliant!!
Only £49

W7 Boards

Vintage, Piano or Rhythm
Only £49 each

W5/7 Disks

Large Choice
Only £15 each

PC/Mac Bargains

| | |
|-----------------------------------|------|
| Musicator | £169 |
| V24S | £179 |
| V22 | £79 |
| E-Magic Micrologic | £75 |
| Mac - Logic 2.5 | £299 |
| Only a few of the above available | |
| Samplitude Pro | £175 |
| Key MP128S interface SMPTE | £229 |

Zip Drives Only £179

Only 5 left



Roland JV Boards Only £199 each!!

**Akai S2000
ex-demo
£789**

ex-demo Akai
Modules
Only £265

Flash Cards 2.8 meg
for MS-1
Only £149!!!
Only 2 Left

Tel: 01206 793355

SPECIALS!

Packages

| | |
|---|------|
| DB50XG + Interface Card | £179 |
| Cakewalk Audio + Tahiti | £565 |
| Cubasis Audio + Tahiti | £494 |
| Yamaha YST10 + Sub-Bass Speakers | £149 |
| Cubase 3 + Tahiti | £565 |

Interfaces

| | |
|-----------------------------|------|
| Midiman Winman | £49 |
| MPC 401 + wave socket | £69 |
| MQX 32M smpte card | £189 |
| Midiman Parallel | £79 |
| Macman | £39 |

CALL FOR FULL LIST

Midi Keyboards



| | |
|----------------------|------|
| Evolution MK10 | £59 |
| Studio 49 | £99 |
| Roland PC200GS | £159 |
| Roland A33 | £349 |
| Studio 900 | £549 |
| Yamaha CBXK1 | £125 |
| Yamaha CBXKIXG | £339 |

Maui



by Turtle Beach
Sample store + GM sound card
playback your own samples in real
time - Expandable to 8 Meg
was £189..... **now £99!**

Sequencers & Hard Disk



| | |
|---------------------------------|-----------|
| Cakewalk Pro Audio | From £339 |
| Cubase 3 PC or Mac Audio! | £299 |
| Cubasis Audio | From £169 |
| Cakewalk Pro 3 | £199 |
| Cakewalk Home Studio | £99 |
| Cakewalk Express | £69 |
| Cubasis -PC or Mac | £129 |

Call for PC / Mac info pack

Call or Fax

01206 864994

Steinberg XDMC

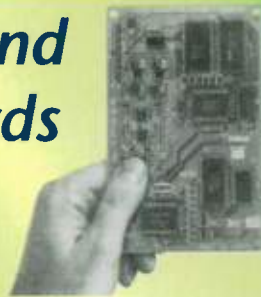
GM + 16 bit audio card,
Games Compatible,
+ software only

£79

Notation

| | |
|------------------------------|------|
| Music time, PC or Mac | £99 |
| Rhapsody | £249 |
| Encore | £399 |
| Encore Academic | £279 |
| Personal Composer | £99 |
| Cubase score PC or Mac | £399 |

Sound Cards



| | |
|--|-------|
| Yamaha DB50XG | £129 |
| <i>Incredible daughterboard, over 750 sounds</i> | |
| Yamaha SW60 | £149 |
| Turtle Beach Tropez + | £269 |
| Turtle Beach Pinnacle | £CALL |
| Turtle Beach Tahiti | £279 |
| Digital Card D Plus | £CALL |



KORG

Prophecy, 05RW,
Trinity Plus
Trinity, i5S, Trinity Pro
X5D, X3,
X5DR, iH

Roland

MC303,
VS-880, XP-10,
XP-50, A-33,
PMA-5, JV1080

YAMAHA

CS1X, MU50,
MU80,
QY22,
QS300,
QY700,



AKAI
Samplers & Modules

CALL - CALL - CALL - CALL - CALL - CALL

SKB Cases
Cheap

Soundtraks
Topaz, Mini &
Micro Mixers

Digitech Studio Quad



TeeBee

Or Not TB?



SYNTECNO TEEBEE ANALOGUE SYNTH MODULE

pros & cons

SYNTECNO TEEBEE £529

pros

- Recreation of classic analogue bass monosynth sound.
- Authentic control of Slide and Accent.
- Lots of additional features.

cons

- Unusual user interface.
- Power-off thump.
- High price — though this reflects its versatility.

summary

For the person who needs the extra features, this could be a one-box solution. But there are lots of other ways to get similarly authentic sounds, so let your ears do the choosing.

SOUND ON SOUND

Back in the days when I didn't have a receding hairline, a mortgage, and kids, I borrowed a TEAC 3340 4-track tape machine from a friend, and also took up his offer of a couple of bits of silver Roland gear as well. Armed with a 2-track tape recorder and a primitive electronic piano, I was now ready to record my first serious cassette!

This equipment may seem outdated to the modern *SOS* reader, but at the time, the silvery Roland boxes — a TR606 Drumatix and TB303 Bassline — completely changed my opinion about sequencers, drum machines and expanders. With the aid of a DIN cable, you sync'd the two boxes together, and could programme in your own drum and bass patterns. Commonplace now, perhaps, but not 14 years ago!

Of course, many would expect the passing of time to have consigned both of these devices to the scrapheap long ago. But just as popular musical styles seem to cycle round, musical equipment also seems to have periodic returns to favour, and as everyone knows, the TB303 has become a sought-after collector's item, in

With prices for an original Roland TB303 as high as £1000 on the open market, it is unsurprising that the last two years have seen a number of manufacturers attempting to emulate the 303 in a cheaper, MIDI'd form. MARTIN RUSS checks out the latest pretender to the throne...

common with many other analogue pre-MIDI instruments (although the 606 seems to have been eclipsed by the later TR808 and 909 drum machines). Prices of the TB303 — which you could hardly give away 10 years ago — have risen to dizzy heights, so that people unable to afford the real thing have had to resort to sample CDs. A ▶



THEY'D SAY...

The last word in state-of-the-art, multi-environmental mixing consoles for front-of-house and studio multitracking. SX has a massive 35 inputs as standard (Inc. DC input) and 30 outputs*.

Scud-proof sans pad Preamps that give an embarrassing 1000-fold gain capability with 22dBu of head (and shoulder) room.

QuadraBus Routing Dynamics conquer the limitations of musically-challenged stereo mixers. Wallow in the sheer power of two extra outputs.

Bi-functional Direct Facility – an almost totally unique feature that lets you decide the orientation of your outputs: twice the track laying potential of conventional mixers.

King-size Infinity Faders. Every SX comes with 72* (1800mm) of low friction carbon track sliders. [18 x 4 = 72 faders donate 72*]

Herculean EQ: Boy, does this system sub-structure work hard, using our near unique super sweep function there are infinitesimal bands to choose from.

Archimedian Auxiliary Architecture – we've got it! 90 golden combinations of FX and aux sends. [Archimedes quotient = (15 x 3 Aux pots) x 2 combinations]

Homogenous Track Potentiometers permit undeviating rotational incrementation.

Micro-Monocoque Construction enables super-abundant component insertion. Geometric ergonomics facilitate a minimal rackmount footprint.

EN50081-1:1992 Emissions and EN50082-1:1992 Immunity Naturally, SX comfortably surpasses the standards.

* Including all inserts, direct outs, groups, mono bus and anything else we could think of.

Wow!
Flush me a 4-color process lithographic impression packed with enhanced data and superfluous technical drawings on the Folio SX mega live studio glamo.

Name: _____
Address: _____

Spirit by Soundcraft
Harman International Industries Ltd.
Lamborne House,
Cranborne Industrial Estate,
Urbarnor Road, Potters Bar,
Herts EN6 3JN, England.
Tel: +44 (0)1777 615111
Fax: +44 (0)1777 665401



WE SAY...

IT'S SAD that some mixer manufacturers resort to hype and long, technical sounding names to describe features that every self-respecting company has used for ages but doesn't want to talk about. This junk-food mentality only makes it harder for you to decide what's good and what isn't.

Judge Folio SX with your ears, not by words: visit your nearest Spirit dealer or send for the straight-talking brochure.

SX is a powerful, multipurpose mixer with DAT quality sound, housed in a freestanding frame with carry handle. It has 20 inputs (including 4 stereo channels) as standard – enough for most live and recording situations.

FACT: SX's 12 mono inputs have UltraMic™ preamps. 60dB of gain range and +22dBu of headroom, allows *any* mic or line device to be plugged in.

FACT: SX is a 4-bus mixer. In addition to the mix outs, two sub-buses allow you to record groups of instruments to multitrack, send them to additional speakers, or sub group to mix. SX also has a dedicated Mono Out.

FACT: SX's 8 Direct Outs are switchable pre/post fader so they are equally useful when recording in the studio or at a gig.

FACT: 100mm faders throughout give you more resolution and finer control over your mix than the 60mm faders found on many more expensive mixers.

FACT: SX's 3-band EQ with swept mid is a real "British EQ". Custom-designed controls at carefully chosen frequencies produce a warm, natural sound. A steep 18dB/Octave High Pass Filter effectively reduces low end muddiness.

FACT: Of the 3 Auxiliary Sends, 2 can be pre- or post-fader. This makes SX equally suited to "monitor heavy" live performances or "effects heavy" mixes.

FACT: Unlike many small-mixer rotary controls, SX's have been custom-designed to give an even spread and consistent control around their sweeps.

FACT: By using the latest surface-mount technology, SX fits all these features into a rugged, compact frame which can be optionally rack-mounted into a 10U space in a matter of minutes.

FACT: SX meets stringent EC RFI requirements so that RF emissions are minimal. 

**IGNORE
THE HYPE
- JUST
LISTEN**




SPIRIT
By Soundcraft

H A Harman International Company

<http://www.spirit-by-soundcraft.co.uk>

Please send me further information and a free application book written by respected pro-audio journalist Paul White on how to get the best from a mixer. I am interested in Folio SX for:

Application: _____
Instrument played: _____
I read the following magazines regularly: _____

Name: _____
Address: _____

Syntecno TeeBee

▶ number of manufacturers have sought to plug this gap in the market over the past couple of years: Novation and Control Synthesis, for example, have had TB303-soundalike bass synths on the market for some time, and Roland are now even providing their own alternative in the form of the forthcoming MC303 Groove Box. The latest MIDI-equipped TB303 recreation is the unit I'm looking at here — the Syntecno TeeBee.

HIDDEN DEPTHS

The standard black, anodised aluminium front panel of the 1U-high, rackmounting TeeBee has little of the appeal of the '80s silvery original, and is confusingly labelled 'T303'. But appearances

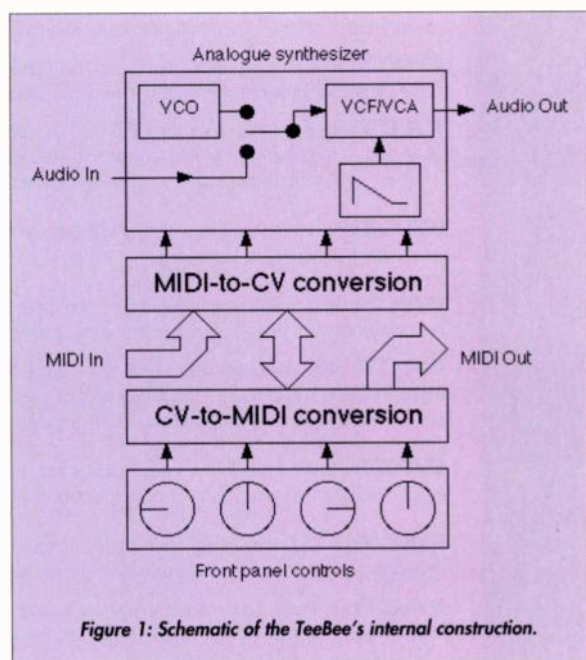


Figure 1: Schematic of the TeeBee's internal construction.

are often deceptive, and the TeeBee is no exception. Hidden behind that front panel are:

- A monophonic bass synthesizer.
- A 4-channel MIDI-to-CV converter.
- Five rotary controls which can act as MIDI Controllers.
- An MTC (MIDI Time Code) to Roland Sync24 converter.
- A simple real-time sequencer.
- An auto-wah filter effects processor.

As you can see from the picture heading this review, the TeeBee's front panel features just a few controls, and at first it seemed a little hard to believe that all the TeeBee's functions were controlled by a push switch, a 'Sawtooth/Square' selector switch and five rotary controls. But the TeeBee manages to make the most of the meagre front panel furniture by using a very unusual audio feedback system instead of the more usual LED or LCD display — more on this shortly.

The rear panel holds 14 connectors, although eight of these are 3.5mm mini-jacks for the 4-channel MIDI-to-CV/Gate conversion. There are two MIDI Thrus, and the MIDI Out can be defined as

an Out or a merged Out and Thru. The audio output is a standard mono jack, and the unit uses an external power supply. In addition, the front panel also features a jack socket marked 'Analogue In' — see 'External Processing' box for further details.

Unlike most other vintage monosynth reworkings, the TeeBee is not just an analogue synthesizer with a MIDI-to-CV converter attached. The positions of the front panel rotary controls are converted to MIDI Controller messages and made available at the rear panel MIDI Out sockets; they're also used to control the synthesizer parameters and even held inside the MIDI SysEx memory of the TeeBee. The result is that the rotary controls can not only be used to control the synthesizer sound as you would expect, but they can also be used as general-purpose MIDI Controllers, if 'Local Control' is turned off. And because the synthesizer settings are derived from the MIDI Controller settings and not just from the front panel controls, external MIDI Controllers or SysEx dumps can be used to change the synthesizer sound. If you're having trouble visualising this, take a look at Figure 1, which shows the internal layout of the TeeBee in diagrammatic form.

The TeeBee does not have any internal sound memories. Instead the entire setup and front panel control positions (with the exception of the

THREE'S COMPANY: TERNARY CODING

The rotary knobs of the TeeBee use ternary coding to control its internal parameters. Ternary is a close relative of the binary coding that is used in digital equipment, but instead of having two different values (on and off, or 1 and 0), it has three. Ternary coding is used in some telecommunications applications, where the three states mean no current, or current flowing in one direction, or current flowing in the opposite direction. The XMIDI proposal also used the same ternary coding of currents in order to extend the numbering system used in MIDI.

Syntecno provide a reference table, which means that you don't need to learn how to count in ternary, but here's a comparison chart showing the first 16 decimal, binary and ternary numbers so that you can get a feel for how they work:

| DECIMAL | BINARY | TERNARY |
|---------|--------|---------|
| 0 | 0000 | 000 |
| 1 | 0001 | 001 |
| 2 | 0010 | 002 |
| 3 | 0011 | 010 |
| 4 | 0100 | 011 |
| 5 | 0101 | 012 |
| 6 | 0110 | 020 |
| 7 | 0111 | 021 |
| 8 | 1000 | 022 |
| 9 | 1001 | 100 |
| 10 | 1010 | 101 |
| 11 | 1011 | 102 |
| 12 | 1100 | 110 |
| 13 | 1101 | 111 |
| 14 | 1110 | 112 |
| 15 | 1111 | 120 |

The Digital Village



The Digital Village guarantee

At The Digital Village we believe in getting it right first time, every time. All our custom digital audio systems are thoroughly checked before installation and backed with our assurance that they function correctly. We have the greatest confidence in every system we sell - so that you can too!

- BUY -

All systems supplied are installed by our expert staff and are guaranteed to work to their published specification from day one.

- WITH -

Any hardware problems occurring within the first three months will be diagnosed by our expert staff and any faulty hardware will be swapped out immediately.

- CONFIDENCE -

All systems supplied have been assessed for suitability for their intended use. If they fail to perform adequately within seven days, we will credit the full purchase price against an alternative system of similar or greater value.

Please ask about our 30-day upgrade plan.

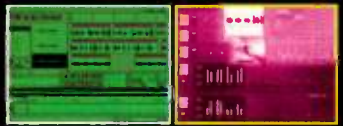
Do you want to configure a studio set-up? Do you need to sparkle up your mix (Bring in your tapes on DAT and we'll show you how to turn it into a master). If you need advice on Desks, Mics, EQ, Compressors, Exciters, Multi-FX, etc,



SPEAK TO NICK: Drawmer, Lexicon, TLA, Eventide, Joe Meek, Tube-Tech, Mackie, Neumann, Sennheiser, Phonic, Behringer, AKG, Røde etc.



Confused by which computer hard disk recording system to buy? We have in our 1st floor studio the latest **PROFESSIONAL** versions of software and hardware for the Mac, Falcon and the PC.



SPEAK TO GAVIN: Audiomedia II & III, Pro Tools Project, Session 8, Pro Tools III, Session, Soundscape, Yamaha CBX D5, C-Lab Falcon, Emagic Notator Logic, Opcode Vision 3.0, Studio Vision 3.0, Digital Performer, Freestyle,

Steinberg Cubase Audio (PC & Mac), Cubase Audio 16 (Falcon), Timebandit & Recycle.

If you're wondering which keyboard or module is right for your application we have the low-down on all the sounds, features and street prices. If you realise that buying a sampler without joining the **DIGITAL VILLAGE SOUND LIBRARY** is a foolish thing to do....



SPEAK TO RAY: Akai S3200XL plus 16meg RAM plus 540meg Removable drive, only £3499!

Second user and classic gear seems to be piling up and needs a new home, ring for details. Ring for demos or great prices on stand alone Hard Disk Recorders such as the Roland VS880, Fostex DMT8, Akai DR8 etc, etc.



Speak to **THE EXPERTS**
0181 440 3440

Phone for details on CDR and also to book a demo on the Yamaha O2R

The Digital Village

230 High Street, Barnet, Herts, EN5 5TD U.K.

Tel: 0181-440-3440

Fax: 0181-447-1129

E-Mail: digville@cix.compulink.co.uk

Store Hours: 9.30am - 6pm(gmt) Sat: 10.00am - 5.30pm(gmt)
1030 - 1900(est) Sat: 1100 - 1830(est)



Syntecno TeeBee

► Square/Sawtooth switch) can be saved as a System Exclusive dump via the 'Program' switch. By editing the parameters in the SysEx dump and sending it back to the TeeBee, you can change both setup and sound. This means that a sequencer can be used as a way of storing sounds and setups — rather like the volume setting and instrument assignment that you find at the start of a General MIDI sequence file.

This intimate connection between MIDI and the synthesizer control voltages is reflected in the other use of the TeeBee: as a 4-channel MIDI-to-CV/Gate converter.

POWER PLAY

The TeeBee plays a short sequence as it powers up. Switching on the unit while holding down the Program button until this sequence has stopped accesses programming mode, where many of its features are found. Once in this mode, the TeeBee trills between two notes, waiting for you to start using it. Settings are made via the unit's rotary controls; each time you make a new setting, you press the Program button. Different pitches in the TeeBee's trill indicate what the next input needs to be. This is one of the most unusual user interfaces I have ever encountered, and it takes some getting used to. Having said that, the audio prompts are easy to understand (if a little annoying after a while) and the method is consistent, if slightly cumbersome.

The TeeBee's programming mode is used to define setup parameters, although you can also use a SysEx dump instead. If you want to use the internal sequencer, the front panel controls are the only way to record and play sequences. The controls use ternary coding (see the 'Three's Company Box' elsewhere for more on this peculiar system), and so only three positions are used: fully counter-clockwise, in the centre, and fully clockwise. On the review model, these controls were quite stiff, and turning them rapidly to make changes was not very convenient. Unfortunately, the Tuning control is also one of the programming controls, and so the TeeBee's tuning almost always needs to be re-adjusted whenever programming mode is used. This can be avoided by only using SysEx dumps to change settings, of course.

Switching the TeeBee's power on and off is required quite frequently, since this is how you access programming mode, and when you turn it off, there's a noticeable thump. It may be a good idea to get into the habit of turning your mixer fader down before doing this.

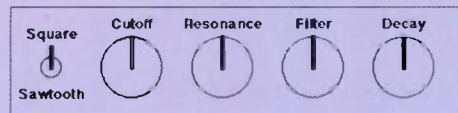
BACK TO BASICS

With only five controls, the possibilities for making sounds with the TeeBee are somewhat limited. Its bass sounds, however, are classic examples of late '70s and early '80s analogue synthesizer.

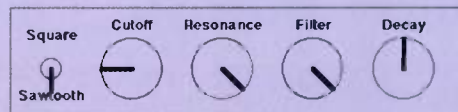
The Sawtooth/Square switch toggles between the woody, hollow timbres of the Square waveform, and the more synthetic-sounding, bright timbres of the Sawtooth; the four rotary

DIGITAL THRU ANALOGUE: EXTERNAL PROCESSING

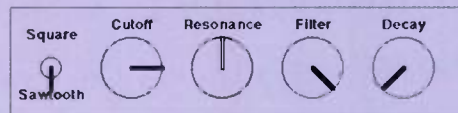
The TeeBee's front panel 'Analogue In' jack socket overrides the Square/Sawtooth switch setting and replaces the internal oscillator with an external audio signal. MIDI Note On messages are used to trigger the TeeBee's enveloping and the result is a sophisticated auto-wah effect. Using the TeeBee to process my digital equipment produced an unusual mix of digital precision modified with analogue filtering. Lots of scope for experimentation here!



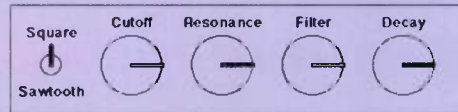
1 Smooth hollow bass sound



2 Classic filter sweep 'acid' bass sound



3 'Fruity' percussive bass sound



4 Hard overdriven synth bass sound

Figure 2: My favourite TeeBee patches.

controls then enable the timbre to be shaped in more detail. The filter Cutoff frequency control alters the brightness of the sound, while the filter Resonance control changes the 'emphasis' of frequencies near the cutoff frequency of the filter. The Resonance control doesn't go high enough to force the filter into self-oscillation, but this is consistent with the behaviour of the TB303. The

SILVER DREAM MACHINE: THE ORIGINAL ROLAND TB303

The TB303 is a simple monophonic synthesizer, with almost the bare minimum of controls. It follows the basic VCO-VCF-VCA format of many analogue synthesizers. The VCO (Voltage Controlled Oscillator) provides the raw sound source, with sawtooth or square waveforms. This is then processed by the VCF (Voltage Controlled Filter) a two-pole, low-pass resonant filter which is swept by a decaying envelope (just the decay stage!). The overall envelope is very simple: attack and release are both very fast, with

the filter decay stage being the only part of the enveloping that can be controlled.

Before MIDI, some things weren't quite as predictable as they are now. Portamento was produced by processing the keyboard control voltage rather than changing a parameter on a display, and was usually controlled by a variable resistance with a dedicated switch/footswitch to turn it on and off. Accents and velocity control were not standard at all. New equipment tended to redefine standards, and the

TB303 is an interesting example. The TB303's 'slide' control produces a glide (or portamento) between successive notes, but also prevents the filter sweep envelope from retriggering — in fact, the sound sustains until the 'slide' is turned off! In the context of a monophonic synthesizer this makes sense — most monophonic musical instruments do not retrigger the sound when you slide the pitch. But I suspect that the sustain that results from the use of the slide control is probably an artifact of Roland's circuitry! The TB303's accent is also unusual, since it affects the decay time of the filter sweep envelope.

XRD™ 680 PLUS

POWER YOU CAN'T CONTAIN



600 WATTS!

The new XRD™ 680 PLUS powered mixer features an awesome 600 watts of total output power, 8 channels and 120 digital effects presets. Plus a whole list of features that make the XRD 680 PLUS perfect for working bands. Here's just a few:

- Active 3-band EQ with ± 15 dB cut/boost on each channel
- 9-band graphic EQ with ± 12 dB cut/boost
- Switchable 48 volt phantom power
- Input and output 1/4" jacks for external graphic EQ
- Full set of auxiliary and tape inputs/outputs
- 120 digital reverb and delay presets
- Dual power amps each feature 300 watts into 4 ohms (600 watts total)
- Power amps can be used for main output or split for independent main and monitor applications
- Each power amp has an independent input jack and two 1/4" output jacks
- Available in top box and rack mount format
- Easily portable
- and much more....



For bands that want stereo capability,
check out the new XRD 680S PLUS
with 600 total watts of true stereo sound.



Peavey Electronics, Ltd. Great Folds Road Oakley Hay Corby Northants NN18 9ET England
Tel: +44 (0) 1536 461234 Fax: +44 (0) 1536 747222

How to become a Record Producer

▶ according to which one you and the band have most enthusiasm for at the time. Or you may have booked a session player who you want on more than one song, so he might as well do them all in the same session. This means locating to each song on the multitrack and resetting the monitor mix on the console. If you confine yourself to level/pan/reverb monitor mixes, it won't take too long to set up. Sometimes, however, during the later stages of overdubbing, you may feel that the mix you're hearing sounds really great, just by chance, and you would like to keep it as a reference for when you start mixing proper. In this case it's a simple matter to copy the monitor mix onto a DAT so you can check it later. With so few variable elements, it's pretty easy for a skilled engineer to reconstruct the mix almost exactly, and then you can go ahead and improve it still further.

HOW TO GET A GOOD MIX

Simple. Use a good engineer and go away! I mentioned earlier in the series that engineers acquire a vast amount of experience of working with music and sound, and they are the people who should

be operating the faders — not the producer, unless the producer comes from an engineering background, of course. If the producer sits in the studio from the moment the first fader is raised all the way through to the finish, he will be nothing but an inhibition for the engineer, who would really like to get on and tinker with the sounds and try out lots of ideas, many of which might not work. So this is a good time for you to take a walk in the fresh air and clear your mind ready to make an objective judgment on how the mix is progressing, two or three hours after you left the engineer alone with it. You may leave behind a few ideas or guidelines, or you may even encourage the engineer to go wild and try out some crazy things. When you return, you will hear your production in all its glory and you will be able to advise on what you want more of and what you want less of. You could even say that it is entirely wrong and you want to start again. An experienced engineer accepts that the producer is in charge and won't take offence (he just won't work with you again!).

A trickier question is what *makes* a good mix. It's especially tricky for the engineer who has to

THE ENGINEER'S VIEW — PAUL GOMERSALL

Paul Gomersall has recently enjoyed the privilege of engineering George Michael's new CD, *Older*, where George, as usual, is his own producer (for the full story, see the article starting on page 40 this month).

Paul's other credits include work with producers Trevor Horn, Phil Collins (as a producer), Stephen Hague, Stephen Lipson, Thomas Dolby, Chris Porter, Laurie Latham, and others.

• WORKING WITH PRODUCERS WHO ARE ALSO ENGINEERS

"Producers like to distance themselves from the desk, as long as they have an engineer they can trust. It's one of the joys of production. If they have a problem, they might dive in and try and sort it out themselves, but usually there won't be a problem. You are the interface with all the technical stuff so the producer doesn't have to think about that. If the producer comes up with an idea you make it work for them."

What should an engineer do if a producer appears not to hear a problem?

"Point it out. One of the good phrases is 'I think we should listen back to that'. He will be listening by then. There are ways of getting your point across. Diplomacy is a big part of the job."

• WORKING WITH GEORGE MICHAEL

Monitoring: "I give him the mix output of the desk in his headphones. The headphone mix is very important to anyone. That's what they are listening

to in the studio so that's what they want to hear in the headphones."

Reverb: "The way he sings the consonants, it gives a bit of excitement to his vocal sound. It's being used as another instrument. I generally set up two, three or four reverbs that I think will suit the track as it's coming together and take it from there, and George will pick what he wants."

Mixing: "The mix is an evolutionary thing. Virtually every song we do we work through to the mix. You never get a stage where everything is finished and you start mixing. It evolves, and somewhere along the line he'll want to do a vocal ride so we'll switch the mix computer on, then we'll switch it off again and add some more things and continue like that. I know we're finished when he says 'let's put one down'. He'll take a mix home and come back the next day and probably continue working on it. The programming diminishes as the work carries on and we get more involved in riding levels of things, EQ and other bits and pieces. And then suddenly it's there. It's finished. The rough mixes are really important because sometimes George will ask to refer to something we've done before and then carry on from there. So we keep all the mixes we've done in case one of them had something that was really good."



Engineer Paul Gomersall and Programmer Steve McNicol at work on George Michael's *Older* at Sarm West studios — and they weren't posing!

XRD™ 680 PLUS

POWER YOU CAN'T CONTAIN



600 WATTS!

The new XRD™ 680 PLUS powered mixer features an awesome 600 watts of total output power, 8 channels and 120 digital effects presets. Plus a whole list of features that make the XRD 680 PLUS perfect for working bands. Here's just a few:

- Active 3-band EQ with ± 15 dB cut/boost on each channel
- 9-band graphic EQ with ± 12 dB cut/boost
- Switchable 48 volt phantom power
- Input and output 1/4" jacks for external graphic EQ
- Full set of auxiliary and tape inputs/outputs
- 120 digital reverb and delay presets
- Dual power amps each feature 300 watts into 4 ohms (600 watts total)
- Power amps can be used for main output or split for independent main and monitor applications
- Each power amp has an independent input jack and two 1/4" output jacks
- Available in top box and rack mount format
- Easily portable
- and much more....



For bands that want stereo capability,
check out the new XRD 680S PLUS
with 600 total watts of true stereo sound.



Syntecno TeeBee

- Filter knob actually just controls envelope modulation amount, and finally, the Decay control sets the time over which the filter sweep envelope decays. The TeeBee's envelope is decay-only, although with the filter control set to minimum, I was able to produce slight rising envelopes.

Two important elements of the TB303's sound were 'Slide' and 'Accent' (see TB303 box for some background on the original). Both of these



functions are hidden on the TeeBee. Slide is governed by a MIDI Controller, which needs to be turned on and off to control the glide between notes, in much the same way as a sustain pedal. The TeeBee's synthesizer is first-note priority, and the envelope does not retrigger if additional notes are played whilst the first is held down: strict monophonic operation.

Accented notes on the TeeBee have short decay times, producing a result that is more like a negative accent. It's selected by using the attack or initial velocity of the MIDI Note messages that are playing the TeeBee. From 1 to 100, the velocity maps to volume changes as you would expect, but from 101 to 127, the velocity causes decay to be set to the shortest time. This requires an unusual playing technique, and is probably better suited to detailed editing using a sequencer.

Figure 2 shows the settings for four of my favourite types of bass sounds created with the TeeBee.

THE CHIPS INSIDE

Because the TeeBee uses an external power supply, its case has plenty of space inside for the two relatively small printed circuit boards. The circuit board at the rear of the case holds the Intel 80196 micro-controller, the MIDI Input and Outputs, and the MIDI-to-CV converters, whilst the front panel circuit board is home for the analogue synthesizer circuitry.

Although the TB303 is normally described as having a 2-pole, 12dB/Octave resonant low-pass filter, the circuit inside the TeeBee looks more like a 4-pole 24dB/Octave design, whilst sounding like a 2-pole filter! I was unable to confirm the number of poles in the filter with distributors Blue Systems.

The layout and quality of the PCBs is good, although there was quite a lot of hand-wiring

inside the case of the review unit, and the front panel switches had been mounted incorrectly, with the star washers on the outside of the case. This may be a deliberate cosmetic device, but it didn't appeal to my eyes!

MIDI IN CONTROL

Slide is assigned to MIDI Controller 0 as a default. This is an unusual choice, because it's the same as the MSB (Most Significant Byte) of the Bank Select message. This can cause one or two problems when you try to use the TeeBee with some sequencers, but it can be re-assigned to any of the first 80 controller numbers instead, as can the MIDI Controllers from the front panel rotary controls. The default setting for the 'Tuning' control is also a little strange: it's assigned to MIDI Controller 10, which is normally used for Pan control. Controller 11 maps to Filter Cutoff.

Naturally, I tried out the MIDI-to-CV conversion, and found no obvious 'zipper' noise artifacts. However, the MIDI Time Code to Sync24 conversion could not be tested during the review period, since I no longer own anything which uses Roland's Sync24 standard!

THE BOTTOM LINE

The TeeBee is in competition with other monophonic bass synthesizers, like the Novation BassStation Rack, the Control Deep Bass Nine, the Spectral ProTone, and the Synthology Clone 3. None of these has quite the same approach as the TeeBee, however, and the user interface of the TeeBee is quite unlike any of the others. Making a price comparison is hard because of the mix of additional facilities that the TeeBee offers. You need to decide if you need these features, or just a TB303-type sound.

If you can live with the unusual programming interface, mastering the TeeBee means coming to terms with the complexities of using the Slide and Accent functions effectively. Plain step sequences sound much the same on any monosynth, but the careful use of these additional TB303-type features on sequences with large leaps in pitch can definitely produce that characteristic Bassline sound.

The underlying sounds of the TeeBee are classic vintage analogue, and beyond that we enter the realms of personal preference. They're certainly completely in character with the intended market, and are not lacking in authenticity. But the final choice has to be yours — give the TeeBee an audition and then decide if it can provide the Bassline you've always wanted.

SOS

£ £528.75 including VAT.

A Blue Systems, The Old School House, Church End, Ashdon, Saffron Walden, Essex CB10 2HG (visitors by appointment only).

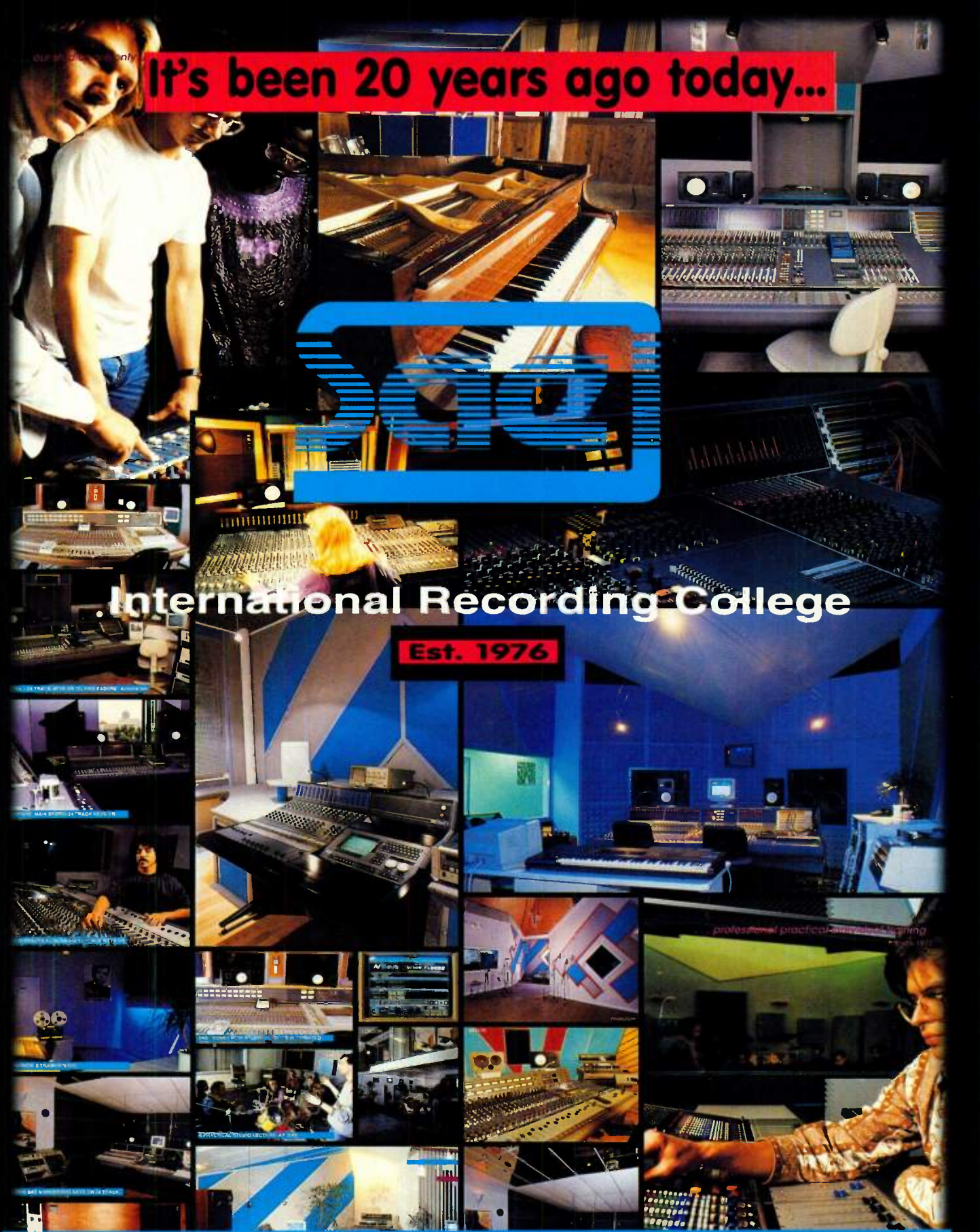
T 01799 584095.

F 01799 584094.

E bluesys@diad.pipex.com

info

It's been 20 years ago today...



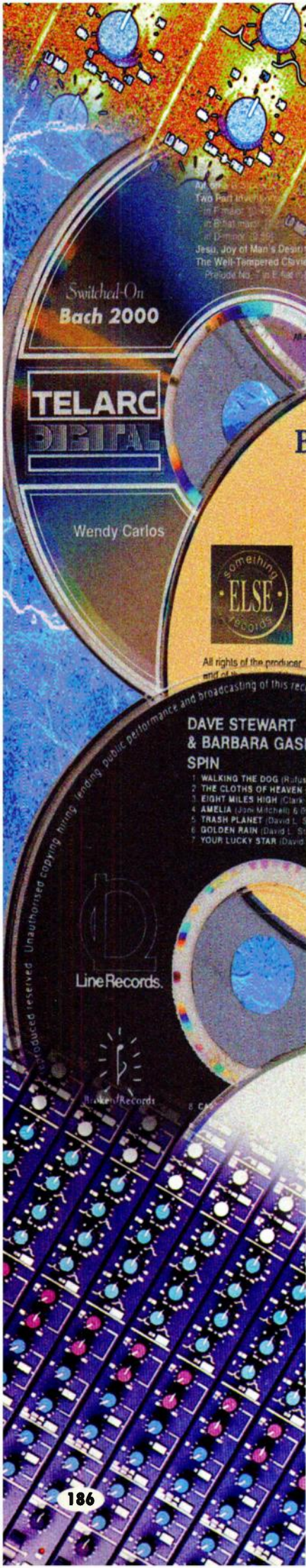
International Recording College

Est. 1976

Certificate - Diploma - Degree

CALL FOR A FREE COLOUR BROCHURE ON OUR FULL COURSE PROGRAM:

AMSTERDAM 020 689 4189 ADELAIDE 08 376 0991 AUCKLAND 09 373 4712 BERLIN 030 456 5137 BRISBANE 07 367 0143
COLOGNE 0221 954 1220 FRANKFURT 069 543 262 GLASGOW 0141 221 3441 HAMBURG 040 233 676 LONDON 0171 609 2653
MELBOURNE 03 9534 4403 MUNICH 089 675 167 PARIS 01 4811 9696 KUALA LUMPUR 03 756 72 12 PERTH 09 325 4533
SINGAPORE 334 2523 STOCKHOLM 08 730 5100 SYDNEY 02 211 3711 VIENNA 01 330 4133 ZURICH 01 445 2040



How to become a Record Prod

As the final mix looms, the end of the producer's job draws near. But which approach to mixing is best? DAVID MELLOR fires up the Moulinex...

PART 7 — THE MIX

Much has already been said in these pages about mixing, but from an engineer's point of view, rather than a producer's. Many years ago, before the modern era of multitrack tape, recording and mixing were part of the same process. You *had* to get a good balance between the voices and instruments at the session, because there was no way of making adjustments later. In fact, much orchestral music is recorded in the same way today, directly to stereo. Mixing directly to stereo is also very common for today's live and broadcast popular music. It's possible to do without a multitrack stage in all of these situations because the engineer knows before even one fader has been lifted what the final recording should sound like — as close to the original as possible. Since skilled engineers can achieve such remarkable results, you might wonder why we need a multitrack stage at all. The answer is that it allows much more attention to be paid to each element of the recording, in terms of sound quality, musicality, and creativity. Giving these three aspects the attention they deserve is why recording takes so long and demands so much effort.

GET IT RIGHT FIRST TIME

Ideally, the producer should start the mixing process as soon as the project gets off the ground. He should have an idea of the sound being aimed for, allowing a certain amount of scope for creativity, depending on the nature of the project. If it's a dance record, for instance, the producer must understand the style well enough to know the elements of the music his audience demand, and should add to those elements new and different sounds and textures to push the style further into the future. If the producer knows how every step of the preparation and recording process is going to

contribute to the final mix, the mixing stage should be straightforward and successful. This means, among other things, getting the arrangement right and selecting the right sounds, making sure the musicians are playing in time and in tune, and obtaining a good performance from the singer by whatever means necessary. If there is a problem in any of these areas, you can only turn a deaf ear to it for so long — until the mix, in fact. Any problems present on the tape at the mixing stage will have to be disguised or covered up. Those problems should have been corrected as soon as they occurred.

MONITOR MIXING

As more tracks are being added to the recording during the overdubbing stage, the engineer and producer will be working with a mix that may bear a passing resemblance to the finished product — the monitor mix. The monitor mix is what you listen to during the recording process, and is usually thought of as a rough guide to what is already on the tape — good enough so that the musicians can get a proper feel for the music, and good enough to tell the producer how the recording is shaping up. The exact monitor mix depends on the type of mixing console you are using: some have only very basic monitor facilities — perhaps just level, pan and a couple of auxiliary sends. This means that you can't do anything in the monitor mix apart from set how loud each instrument is, where it appears in the stereo image, and how much reverb it has (the other aux will be used to send foldback to the musicians' headphones). This is not a bad way of working, however, because you will hear exactly what is on the tape as you progress through the recording. If the monitor mix sounds good, you can be sure the final mix will sound great.

This simple style of monitor mixing has its merits,

but large-scale consoles offer vastly more sophisticated monitoring facilities. You can create a mix on the monitors using EQ, compression, gating, and everything else that is part of modern studio technology. If you regard the monitor mix as something temporary, but you — and the engineer — then proceed to use all of these facilities, you may find yourself in big trouble by the time you flip the multitrack onto the big faders and start to mix from flat, because the sound will be totally different. By the time you graduate to SSL- or Neve-class studios, you should have learned the first rule of recording: nothing less than 100% effort is good enough. You should regard everything you do as being part of the finished product and make it as perfect as possible. This includes the monitor mix.

With a console that only has rudimentary monitoring facilities, you'll probably want to perfect everything on tape. With a console that has sophisticated monitoring facilities, you'll record

Ucer

a good clean sound on tape, and then anything you do to the monitor mix will become part of the final mix. The console will allow you to do this so you don't have to start from scratch when the overdubs are finished. In fact, you can do this with any console that has enough channels. It's very common, once a few tracks have been recorded, to route the multitrack to the channel faders and start to mix as overdubs progress. Working in this way, you never have to say,

"Right, let's clear the desk and start to mix". Instead, you come to a realisation that everything is done and all that is needed is a little polishing. Self-produced artist George Michael works in this way and his status at the top of the singles chart as I write confirms the value of this philosophy.

FROM ANOTHER POINT OF VIEW

There are many ways to make a record, and I can imagine some producers reading the above and disagreeing with it. Another style of album recording involves putting down all the basic tracks, then overdubbing other instruments and vocals, then taking a break of a few days before starting to mix the whole lot. The disadvantage of working a song at a time, all the way from basic tracks to mix, is that you can easily lose perspective. On average, people probably listen to each record they buy about six times; the producer of the record has to listen to it more like six *hundred* times during the recording and mixing process, and over-familiarity with a song and the recording of that song means that you can't judge it in the same way as a punter would. Taking a break between recording and mixing means that you can come back to the song with fresh ears and hear very clearly which bits need to be brought out, and which elements play an important but subservient role. If this is the philosophy of mixing that appeals to you more strongly, it would probably be a waste of time working on an elaborate monitor mix. You could store it on a console with recall facilities, but that would negate the advantages of taking a break before mixing. A simple monitor mix is probably the best idea.

Still on the subject of monitor mixes, another common practice is to swap between songs during overdubbing, ▶



The Rapino Brothers in their compact and bijoux home studio, with Kylie Minogue, whose recent album featured four Rapino-authored tracks...

THE REMIXER'S VIEW — MARCO SABIU OF THE RAPINO BROTHERS

The Rapino Brothers are Marco Sabiu and Charlie Mallozzi. (They are not real brothers, obviously — 'rapino' is Italian for robber). They have built up a significant and lucrative following among record companies as writers, remixers and producers, making new versions of original recordings by Take That, Roxette, Sleeper, Suggs, Rozalla, and Dubstar, among many others.

• **THE NEED FOR REMIXING**
"I'm not the one who said remixing was necessary. It's the record companies who want remixes, because they want to have their songs played in the clubs. If people like the song in the clubs, they will go and buy the record."

• **ON FOLLOWING RECORD COMPANY INSTRUCTIONS**
"Sometimes they tell us what kind of style they want. Sometimes they don't tell us anything, they just give us the vocal and we do

what we want. Usually we only keep the vocals and redo everything else, unless it's a band with guitars — then maybe we'll keep the riff. It depends. It can be almost like doing a new song."

• **REMIXERS VS. THE ORIGINAL PRODUCER**
"I listen to the original producer's mix to try to get the kind of vibe that they used, so I can avoid doing the same thing. I don't know whether producers like what we do. We always do a radio version of a remix and sometimes the record company will use it as a single. If that version goes into the charts I think the producer should be quite happy because the album will sell better."

• **REMIXING AS A WAY OF GETTING INTO PRODUCTION**
"I can't see any difference between a remix and a production, because at the end of the day when you do a remix you

start from scratch. The only thing you have is the vocal. To me that is a production."

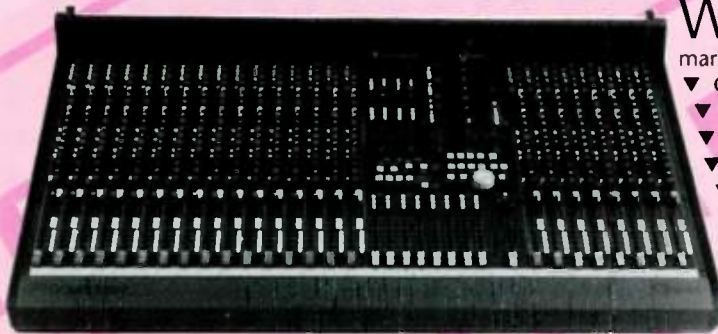
• **TECHNICAL KNOWLEDGE**
"On that side we are quite lucky, because when I was in Italy I worked as a sound engineer, so for me now it's helpful to have that kind of knowledge. If I want a sound I know how to do it. I don't have to ask someone else, which would be just wasting time. I think it's quicker and better if you have a good knowledge of the machines you have. We have a Pro Tools 3 system with Logic Audio, so we do everything with that."

• **ACOUSTIC INSTRUMENTS**
"We quite like to use live drums and real guitar and bass. When we do that, we usually go into a bigger studio because we don't have the space. Then we come back to our home studio [pictured here], transfer everything into Pro Tools and start editing."



...and the 'brothers' with two members of Take That, for whom they have produced and remixed several album tracks.

Soundcraft GHOST

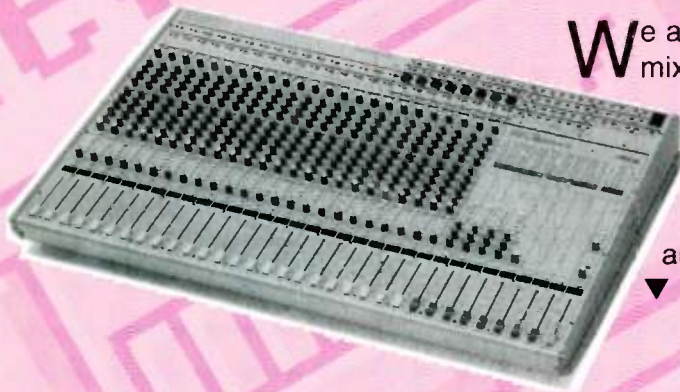


With an incredible array of features the new Soundcraft Ghost is set to dominate the sub £5000 mixing console market. Facilities include:-

- ▼ Optional Meterbridge
- ▼ Moving fader automation Version also available
- ▼ 2 bands Fully Parametric & 2 bands Fixed Eq
- ▼ Superb Sounding Low noise Mic. pre-amp
- ▼ 10 Aux Sends
- ▼ Integral MIDI Machine Control including track enable
- ▼ Jog Shuttle Wheel
- ▼ SMPTE Controls
- ▼ MIDI Muting & MIDI Faders

PRICES FROM £ 3300.00

YAMAHA MIXING CONSOLE SPECIALS



We are now able to offer the Yamaha range of mixing consoles at REMARKABLE prices.

Examples include:-

- ▼ MM1402 £ 344
- ▼ MM1242 £ 599
- ▼ MX200-16 £ 599

and VERY SPECIAL PRICES on the RM800

- ▼ Call us for details.

Fostex D80



The D80 is a fully operational, and modular 8 track system that offers a remarkable 20:1 DSD as standard. It is even compatible with ASAC, ensuring the best of audio track. Perfect for use with a sequencer.

£1495.00

EQUIPMENT PACKAGES

| | |
|---|-----------|
| Fostex D80 8 Track System & Yamaha RM800-16 | £ 2450.00 |
| Fostex D80 16 Track System & Yamaha RM800-16 | £ 3800.00 |
| Fostex D80 16 Track System & Yamaha RM800-24 | £ 4050.00 |
| Fostex D80 8 Track System & Spirit Studio-16 | £ 2595.00 |
| Fostex D80 16 Track System & Spirit Studio-16 | £ 3945.00 |
| Fostex D80 16 Track System & Spirit Studio-24 | £ 4395.00 |

KG M

studio specialists

18-42 Charlotte St, Wakefield
West Yorkshire WF1 1UH, England
Tel: 01924 371766 Fax: 01924 290460
E-Mail: sales@kgm.co.uk
WWW: <http://www.proaudio.co.uk/kgm.htm>



High quality audio equipment deserves to be treated well.

We manufacture possibly the finest range of custom studio furniture

in europe - our clients include the BBC and many more

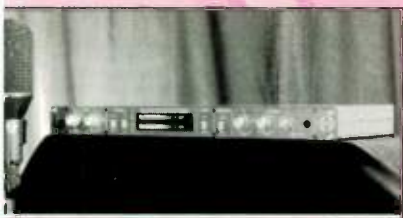
Call us for details . . . you'll be surprised just how cost effective they are.

All Prices include VAT. E & O.E

KGGM

studio specialists

18-42 Charlotte St, Wakefield
West Yorkshire WF1 1UH, England
Tel: 01924 371766 Fax: 01924 290460
E-Mail: sales@kgm.co.uk
WWW: http://www.proaudio.co.uk/kgm.htm



SoundField SPS422

The new studio microphone system from Soundfield is now available.

Based on the highly acclaimed SoundField MkV, the SPS422 is around the price of other premium studio mics, but offers stereo capability, remote control of all parameters from the control room . . . and of course the ultimate Soundfield sound.

There is no other mic. like it - call us for details.



DAT Machines

Machines by Tascam, Fostex, Sony . . .

and yes we will take your old machine in part exchange

used machines from £250.00 inc. VAT

new pro. machines from £595 ex VAT



Roland

We now have stocks of the wonderful new Roland VS880, hard disc portastudio. With extensive synchronisation, MIDI facilities and optional onboard effects, it is truly the essential recording tool of the '90's.

Monitoring Madness



GENELEC® Possibly the most accurate studio monitors in production.
Doesn't your work deserve the best?
Call us for the lowdown.

Lexicon

LEXICON LXP15-II
REMARKABLE VALUE AT ONLY
£699

THE BEST JUST GOT BETTER

Lexicon have just introduced a new processor to their range - the PCM90.

Joining the already well acclaimed PCM80 the PCM90 is a highly programmable dedicated reverb processor of the highest pedigree.

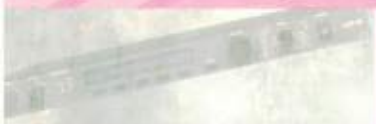
Also now shipping are the dual FX board and the pitch board for the PCM80.

Call us for details.

dynaudioacoustics



Call us for a specification sheet on this excellent range of passive monitors
Used by many top facilities worldwide.



| | | | | | | | |
|-----------------------------------|------------------------------------|-----|---|---------|--|-----|-----------|
| ▼ MIDI | PEAVEY Series 12 Cont. | (U) | £ | 50.00 | SOUNDTRACS TOPAZ 24 c/w Meterbridge(D) | £ | 1700.00 |
| ROLAND U110 Tone Module | ALESIS Monitor 1 | (D) | £ | 320.00 | SOUNDCRAFT K1 16ch | (D) | £ POA |
| ROLAND D110 | SOUNDFIELD MKIV | (U) | £ | 2250.00 | SOUNDCRAFT SPIRIT Live4-II 16 Ch. | (N) | £ POA |
| ORG M1R | AKG C535 Mic. | (U) | £ | 225.00 | SOUNDCRAFT SPIRIT Live4-II 24 Ch. | (N) | £ POA |
| ROLAND CM-32P | GENELEC S30 Monitors | (U) | £ | 1750.00 | SOUNDCRAFT SPIRIT Studio-16 | (N) | £ POA |
| MU Vintage Keys | UREI 833 (Big Boy studio Monitors) | (U) | £ | 1000.00 | SOUNDCRAFT SPIRIT Studio-24 | (N) | £ POA |
| AKAI S700 Sampler | ▼ OUTBOARD EQUIPMENT | | | | STUDIOMASTER 8-2 Diamond | (N) | £ 225.00 |
| AKAI IB104 Digital Interface | DRAWMER DMT Multitracker | (U) | £ | 100.00 | STUDIOMASTER 16-2 Diamond | (N) | £ 260.00 |
| L Cooper PPS100 | EMT Plate Reverb | (U) | £ | 575.00 | STUDIOMASTER Powerhouse 300 8-2 | (N) | £ 760.00 |
| AMAHIA RX11 Drum Machine | BBE 322 Sonic Maximizer | (U) | £ | 140.00 | STUDIOMASTER 16-2 Session Mix | (N) | £ 795.00 |
| TARI 1040 c/w 4M/b c/w Monitor | KLARK TEKNIK DN27A Graphic Eq | (U) | £ | 450.00 | ▼ RECORDERS | | |
| MTC MIDI Controller for MSR16 | DRAWMER DS201 Dual Gate | (U) | £ | 220.00 | TASCAM 3B 1/2" 8 Track | (U) | £ 695.00 |
| L COOPER SyncLink | WHITE Series 4000 Parametric Eq | (U) | £ | 250.00 | AINVA/HHB Pro1 DAT Portable DAT | (U) | £ 550.00 |
| STEINBERG CUBASE Score PC | APHEX Type C2 Aural Exciter | (U) | £ | 175.00 | SONY DTC750 DAT Recorder | (U) | £ 275.00 |
| STEINBERG CUBASE 2.5 PC | ALESIS Midverb IV | (N) | £ | 335.00 | AKAI MG614 Portastudio | (U) | £ 625.00 |
| PASPORT MASTERTRACKS Pro | ALESIS Microverb IV | (N) | £ | 250.00 | DBX 150X Noise Reduction | (U) | £ 150.00 |
| AMAHIA Soundedge SW20PC | LEXICON PCM80 | (N) | £ | 1950.00 | DBX 150 Noise Reduction | (U) | £ 130.00 |
| | SPL Stereo Vitalizer | (N) | £ | 315.00 | FOSTEX B16 1/2" 16 Track | (U) | £ 1400.00 |
| ▼ MISC. | | | | | TASCAM 85-16B 1" 16 Track | (U) | £ 2200.00 |
| JPO Jackfields (various) | ▼ MIXING CONSOLE | | | | SOUNDCRAFT SCM381-8 1" 8T | (U) | £ 595.00 |
| KG C451EB c/w CK1 | HARRISON MR-3 36 Channel in-line | (U) | £ | 7500.00 | UHER 4200 Report | (U) | £ 595.00 |
| KG C451EB c/w CK2 | SOUNDCRAFT SAPPHIRE 28 Channel | (U) | £ | 7000.00 | AIWA HDS-1 Portable DAT | (U) | £ 325.00 |
| KG C10005 | SOUNDCRAFT VENUE 16-8 | (U) | £ | 3000.00 | | | |
| KG C30005 | | | | | | | |
| ELECTROVOICE Bass Bins (for S200) | | | | | | | |

All Prices include VAT. E & O.E

How to become a Record Producer

▶ according to which one you and the band have most enthusiasm for at the time. Or you may have booked a session player who you want on more than one song, so he might as well do them all in the same session. This means locating to each song on the multitrack and resetting the monitor mix on the console. If you confine yourself to level/pan/reverb monitor mixes, it won't take too long to set up. Sometimes, however, during the later stages of overdubbing, you may feel that the mix you're hearing sounds really great, just by chance, and you would like to keep it as a reference for when you start mixing proper. In this case it's a simple matter to copy the monitor mix onto a DAT so you can check it later. With so few variable elements, it's pretty easy for a skilled engineer to reconstruct the mix almost exactly, and then you can go ahead and improve it still further.

HOW TO GET A GOOD MIX

Simple. Use a good engineer and go away! I mentioned earlier in the series that engineers acquire a vast amount of experience of working with music and sound, and they are the people who should

be operating the faders — not the producer, unless the producer comes from an engineering background, of course. If the producer sits in the studio from the moment the first fader is raised all the way through to the finish, he will be nothing but an inhibition for the engineer, who would really like to get on and tinker with the sounds and try out lots of ideas, many of which might not work. So this is a good time for you to take a walk in the fresh air and clear your mind ready to make an objective judgment on how the mix is progressing, two or three hours after you left the engineer alone with it. You may leave behind a few ideas or guidelines, or you may even encourage the engineer to go wild and try out some crazy things. When you return, you will hear your production in all its glory and you will be able to advise on what you want more of and what you want less of. You could even say that it is entirely wrong and you want to start again. An experienced engineer accepts that the producer is in charge and won't take offence (he just won't work with you again!).

A trickier question is what *makes* a good mix. It's especially tricky for the engineer who has to

THE ENGINEER'S VIEW — PAUL GOMERSALL

Paul Gomersall has recently enjoyed the privilege of engineering George Michael's new CD, *Older*, where George, as usual, is his own producer (for the full story, see the article starting on page 40 this month).

Paul's other credits include work with producers Trevor Horn, Phil Collins (as a producer), Stephen Hague, Stephen Lipson, Thomas Dolby, Chris Porter, Laurie Latham, and others.

• WORKING WITH PRODUCERS WHO ARE ALSO ENGINEERS

"Producers like to distance themselves from the desk, as long as they have an engineer they can trust. It's one of the joys of production. If they have a problem, they might dive in and try and sort it out themselves, but usually there won't be a problem. You are the interface with all the technical stuff so the producer doesn't have to think about that. If the producer comes up with an idea you make it work for them."

What should an engineer do if a producer appears not to hear a problem?

"Point it out. One of the good phrases is 'I think we should listen back to that'. He will be listening by then. There are ways of getting your point across. Diplomacy is a big part of the job."

• WORKING WITH GEORGE MICHAEL

Monitoring: "I give him the mix output of the desk in his headphones. The headphone mix is very important to anyone. That's what they are listening

to in the studio so that's what they want to hear in the headphones."

Reverb: "The way he sings the consonants, it gives a bit of excitement to his vocal sound. It's being used as another instrument. I generally set up two, three or four reverbs that I think will suit the track as it's coming together and take it from there, and George will pick what he wants."

Mixing: "The mix is an evolutionary thing. Virtually every song we do we work through to the mix. You never get a stage where everything is finished and you start mixing. It evolves, and somewhere along the line he'll want to do a vocal ride so we'll switch the mix computer on, then we'll switch it off again and add some more things and continue like that. I know we're finished when he says 'let's put one down'. He'll take a mix home and come back the next day and probably continue working on it. The programming diminishes as the work carries on and we get more involved in riding levels of things, EQ and other bits and pieces. And then suddenly it's there. It's finished. The rough mixes are really important because sometimes George will ask to refer to something we've done before and then carry on from there. So we keep all the mixes we've done in case one of them had something that was really good."

Engineer Paul Gomersall and Programmer Steve McNicol at work on George Michael's *Older* at Sarm West studios — and they weren't posing!

PROSONIX

Pro Audio Solutions

P.O. BOX 32, HAILSHAM, EAST SUSSEX BN27 3XT

Bantam Patchbay 48 way, 1/2 U£89.99

Jack Patchbay 48 way, IU,
balanced, jacks front & rear£59.99

16 way looms, unbalanced, colour coded
Jack to Jack£39.99

Jack to Phono£39.99

Jack to Tails£35.99

Passive DI Box earth lift, link out.....£29.99

Passive Headphone Splitter
4 Way, XLR input£24.99


Dynamic Microphones
includes 4M, XLR to Jack Lead£19.99

*Manufactures, importers, wholesalers & exporters
to the music industry*

All prices include VAT and P & P
next day delivery add £5.00

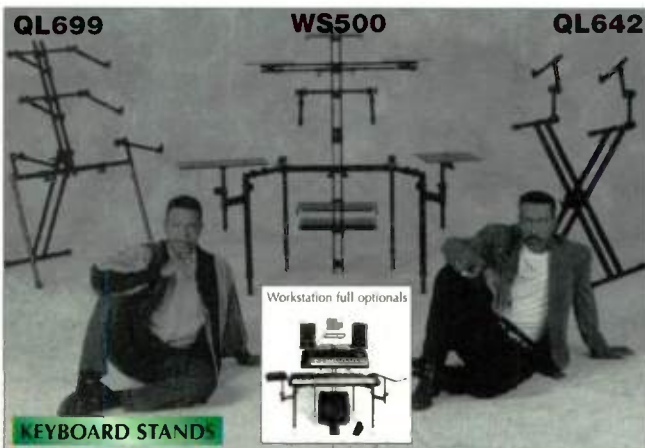
Order Hot-Line

Tel:(01323) 848808 Fax (01323) 441185

E. Mail:101727,213 @ compuserve.com 

QUIK LOK

THE PROFESSIONAL MUSICAL ACCESSORIES



QL699

WS500

QL642

KEYBOARD STAND

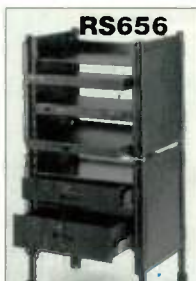


ZM19

RACK STANDS



RS654



RS656

RS655

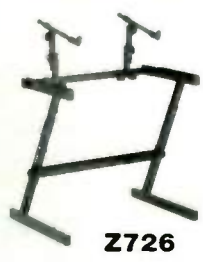


BS315

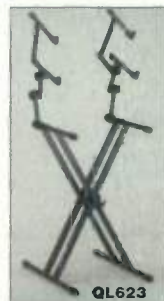
ZM18

ZM20

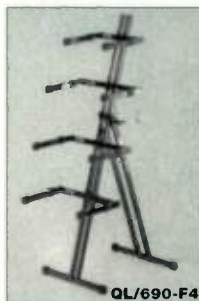
BX718



Z726



QL623



QL/690-F4



BX/714



Z700R/L



ZM20

Brandoni Music distribute the Quik-Lok range of Stands & Accessories for both live & studio applications. Contact your local dealer for more information.



Send £1 + SAE for catalogue

Please mark SAE in corner of envelope

Brandoni Music Ltd

Unit 3.6, Wembley Commercial Centre,
East Lane, Wembley,
Middx HA9 7XJ

Tel. 0181-908 2323

the MOST comprehensive LIST of midi files

PROMUSIC

Midi-files for musicians by musicians

MIDI-FILES FOR MUSIC LOVERS EVERYWHERE.

Simply put, you just won't find a wider range of midi-files than ours. From the latest sheet-music to the classical greats, our catalogue contains over 1500 individual files, and our list grows daily.

Professional tracks for gigging bands, complete midi files, software packs for beginners or pros. We can provide you with what you want at the most competitive prices available and with the fastest despatch around.

So when you want to make music, make for Promusic's Midi Catalogue.

- Over 1500 midi files starting at just £3.99 each covering every musical style imaginable.

- New files every day - call us for details of latest releases.
- No minimum order quantity - just try one file to put our quality, service and value to the test. You won't be disappointed.

Stop Press

We are now on the internet!
The Internet Music Store
<http://www.musicsonline.co.uk>

Interactive Music Packs

Exceptional arrangements of eight classic bassing hits, with printed music and lyrics for just £12.99 each.

Coming soon: Eric Clapton 2, Classics 1, Classics 2, Elton John, Bob Marley, Pop The Midi Keyboard Library

A superb new series of midi tracks. Eight fully orchestrated midi files with printed music and lyrics for just £3.99. Latest titles include: Beatles 1 & Beatles 2

Steinberg Software

Classica - PC - £29.99
Classica Score - Atari - £39.99
Classica 2.3 - Mac - £29.99
& full range of Steinberg Software

ORDER YOUR BIG NEW CATALOGUE NOW

This is just a selection from our vast range of products and more. For the full story, our comprehensive catalogue is an absolute must!

Order yours right now!

New Titles

Sing Song Blue
Cracker Pose
Only One Road
That's The Way
I Like It
Swampy's Waltz
Medley
Triglerly
A Whole Shade
Of Pale
Neil Diamond
Neil Diamond
Online Digi
KC & The
Sunshine Band
Jalan
Emory Brothers
Bon Jovi
Aloke Lennox

And More

PROMUSIC Freepost. LON 6613, London N14 5BR

Tel: 0181 908 2658 Fax: 0181 986 3426 Internet: <http://www.musicsonline.co.uk>

ACTIVE SOUND

...creative technology

CALL NOW ON:
01923 246282
1 2 L I N E S
OR FAX ON:
01923 246669

THIS MONTHS
CRAZY DEALS

THIS IS JUST A SMALL SELECTION OF THE MANY OTHER PRODUCTS HELD IN STOCK!!!

SPECIAL GEAR TO CLEAR

SAMPLERS/H/D RECORDING

| | |
|--------------|------|
| Akai S1000PB | 599 |
| Boss RSD10 | 199 |
| Fostex DMT8 | 1449 |
| Roland VS880 | 1279 |
| Roland JS30 | 499 |

DRUM MODULES

| | |
|----------------|------|
| Alesis SR16 | 179 |
| Boss DRS | 249 |
| Roland TD7 Kit | 1700 |
| Roland TD5 Kit | 850 |

MIXERS

| | |
|-------------------|-------------|
| Boss MX10 | 199 |
| Boss BX80 | 299 |
| Phonic PMC1602B | 399 |
| Samson MPL1640 | 419 |
| Samson MPL1502 | 199 |
| Samson Mixpad 9 | 149 |
| Stagemix 8.2 | 250 |
| Stagemix 12.2 | 319 |
| Yamaha Pro Mix 01 | 1449 |
| Yamaha RM800:16 | UNPRINTABLE |

GUITAR EFFECTS

| | |
|---------------------------|-----------|
| ART ECC | VERY LOW |
| ART SGX2000 | UK LOWEST |
| Boss LM2 | 15 |
| Boss ME6B | 299 |
| Boss BCB3 Case | 15 |
| Boss BCB6 Case inc Pedals | 349 |
| Loads of Boss Pedals | UK LOWEST |

AMPS

| | |
|-------------------|-----|
| Alesis Matica 900 | 499 |
| Alesis RA100 | 250 |
| Dynatix DPA600 | 350 |
| Laney PL150 | 150 |
| Roland SRA50 | 149 |
| Samson Servo 150 | 160 |
| Washburn VGA7 | 40 |
| Yamaha P2300 | 499 |

| | |
|---------------------|----|
| 20 Midi Lead bundle | 59 |
| 20 Jack-Jack bundle | 55 |

PC SOUND CARDS/ SOFTWARE/ INTERFACES

SOUND CARDS - DIGITAL - ANALOGUE

| | |
|----------------------|-----|
| TBS-2000 | 152 |
| Tahiti | 299 |
| Gravis Ultrasnd | 149 |
| Soundscape Elite | 249 |
| Cardd (Digital only) | 389 |
| Trippledat (Card/SW) | 979 |
| Roland ATW-10 | 119 |
| Tropez Plus | 259 |
| Maui | 159 |
| Gravis Ultrasnd Pro | 199 |
| Yamaha DB50XG | 139 |
| Cardd Plus | 679 |
| I/O for Cardd | 239 |

KEEP PRICES ON ALL OTHER SOUND CARDS!

SOFTWARE

| | |
|-----------------------|-----|
| Band in Box | 89 |
| Cakewalk Pro | 159 |
| Cakewalk Pro Audio CD | 279 |
| Cubasis Audio | 229 |
| Cubase v3.0 | 299 |
| Encore v4.0 | 425 |
| Jammer Pro | 139 |
| Procyon Pro | 95 |
| Quad Studio | 199 |
| Sound Studio Pro | 139 |
| Saw Plus | 689 |
| Cakewalk Home Studio | 89 |
| Cakewalk Pro Audio | 229 |
| Cubasis PC | 119 |

SOFTWARE

| | |
|-----------------------|-----|
| Cubase Score | 459 |
| Emagic Logic | 319 |
| Finale | 680 |
| Master Trax Pro | 145 |
| Quickscore Pro Deluxe | 99 |
| Sound Studio | 89 |
| Saw 4 | 429 |

CALL FOR BEST PRICE ON ALL SOFTWARE

MIDI CARDS - ADAPTERS

| | |
|---------------------------|------|
| - CONNECTIONS | |
| Midiman Winman 1x1 | 49 |
| Midiman Winman 2x2 | 95 |
| Midiman 4x4 +SMPTE | 189 |
| Midiman Syncman | 99 |
| Midiman Syncman Pro | 299 |
| Midiman Smartsync | 89 |
| Midiman Par & Serial 1x1 | 79 |
| Sound card midi conn | 25 |
| Midi cables from | 2.50 |
| Midquest 2 port SE | 182 |
| Midquest 8 port SE | 549 |
| Midquest MQX32H + SMPTE | 189 |
| Opcode Studio 3 | 299 |
| Opcode Studio 4 | 549 |
| Opcode Studio 5LX | 1099 |
| Mididage 1x1 + Wave adapt | 59 |
| Mididage 2x4 + Wave adapt | 120 |
| Mac Midi adapters 1x3 | 39 |

| | |
|----------------------------|---------|
| Alesis ADAT XT | 2450 |
| Alesis 3630 | 199 |
| Alesis SR16 | 189 |
| ART MR1 | 145 |
| Boss DS330 | 199 |
| Boss ME6 | 249 |
| Boss SX700 | CALL |
| Boss BL1 | 99 |
| Dynatix complete 500w PA | 499 |
| Ensoniq SQ1+ | 649 |
| Ensoniq DP2 | 549 |
| E-Magic Logic | 279 |
| JL Cooper Datamaster | 299 |
| Kawai K4R | 299 |
| Kurzweil Mark 5 | 1949 |
| Kurzweil Micropiano | 389 |
| Microphone stands | FROM 19 |
| Roland RAP10 inc interface | 129 |
| Roland SCC1 | 119 |
| Roland MDC1 | 419 |
| Roland A33 | 329 |
| Roland SRV330 | 549 |
| Roland CS10 | 89 |
| Roland P55 | 299 |
| Roland PRI | 49 |
| Roland P330 | 299 |
| Roland DI10 | 299 |
| Roland UI10 | 299 |
| Roland JD800 | 1100 |
| Tascam DA20 | 729 |
| Waldorf Pulse | 499 |
| Washburn VGA7 Amp | 49 |
| Yamaha SY85 | 599 |
| 49 note Midi Keyboards | 99 |

MONITORS/ MIXERS/ AMPS & PA

| | |
|------------------|-----------|
| Alesis RA100 | 289 |
| Mackie 1202VLZ | UK LOWEST |
| Mackie 1604VLZ | UK LOWEST |
| Mackie 3204 | UK LOWEST |
| Mackie 24-8 | 2200 |
| Samson Mixpad 9 | 169 |
| Samson MPL1204 | 449 |
| Samson MPL1502 | 249 |
| Samson MPL1640 | 489 |
| Samson MPL2242 | 599 |
| Samson Servo 150 | 189 |
| Samson Servo 240 | 249 |

| | |
|-------------------------------------|-----------|
| Samson Servo 500 | 329 |
| Samson PL2404 | 499 |
| Yamaha Pro Mix 01 | 1669 |
| Yamaha RM800:16 | UK LOWEST |
| Full range of Dynatix in stock | |
| Full range of BV in stock | |
| Full range of HZ in stock | |
| Full range of JBL in stock | |
| Full range of TOA in stock | |
| Full range of Studiomaster in stock | |
| Full range of Spirit in stock | |

SAMPLERS & H/D RECORDING

| | |
|---------------------------|------|
| Akai S2000 | 949 |
| Akai S3000XL | 1699 |
| Akai S3200XL | 3299 |
| Akai DR8d inc 1GB | 2399 |
| Alesis ADAT XT | 2599 |
| Emu ESI 32 | 979 |
| Emu ESI 32 inc SCSI & 8mb | 1549 |
| Emu E64 | 2099 |
| Emu Darwin | 2400 |
| Ensoniq ASR10 | 1649 |
| Fostex DMT8 | 1449 |

| | |
|-------------------------------|-----------|
| Roland S760 | 1299 |
| Roland S760 inc DA400. | |
| OP760/1 & 8mb | UK LOWEST |
| Roland MS1 | 349 |
| Roland VS880 | 1399 |
| Roland VS800 inc FX | |
| and Hard Drive | 2099 |
| Yamaha CBXD5 | CALL |
| Yamaha SU10 | 289 |
| Full CD ROM Library available | FROM 29 |

SOUND MODULES & DRUM MACHINES ETC

| | |
|-----------------------|-----------------|
| Alesis S4 Plus | 739 |
| Emu Orbit | 739 |
| Emu Ultra Proteus | 1199 |
| Emu Morpheus | 989 |
| Emu Proteus FX | 499 |
| Emu Classic Keys | 549 |
| Emu Vintage Keys Plus | 899 |
| Emu Proteus 2XR | 799 |
| Emu EIV | 3949 |
| Korg OSRW | 419 |
| Korg X5DR | 499 |
| Kurzweil Micropiano | 399 |
| Kurzweil K2000R | SEE SEPERATE AD |
| Kurzweil K2500R | 2799 |
| Novation BassStation | 359 |
| Novation DrumStation | UK LOWEST |
| Roland JV1080 | 999 |
| Roland MVS1 | 449 |
| Roland MDC1 | 449 |
| Roland MOC1 | 449 |
| Roland MSE1 | 449 |

| | |
|-----------------------|------|
| Roland MGS64 | 519 |
| Roland PMA5 | 419 |
| Roland RA30 | 429 |
| Roland RA95 | 649 |
| Roland MT120 | 699 |
| Roland SD35 | 699 |
| Roland MCS0mk2 | 699 |
| Roland SC33 | 399 |
| Roland MC303 | 549 |
| Waldorf Pulse | 499 |
| Yamaha QY300 | 799 |
| Yamaha QY22 | 399 |
| Yamaha MU50 | 329 |
| Alesis DMS | 399 |
| Alesis SR16 | 199 |
| Boss DRS | 275 |
| Roland TD7 Kit (Full) | 1999 |
| Roland TD5 Kit (Full) | 1199 |
| Roland SPD11 | 549 |
| Yamaha RY8 | 199 |

HOME RECORDING & PRO STUDIO

| | |
|-----------------------|-----------|
| Alesis MEQ230 | 219 |
| Alesis Microverb 3 | 165 |
| Alesis Microverb 4 | 249 |
| Alesis Midiverb 4 | 329 |
| Alesis Quadriver 2 | 519 |
| Alesis 3630 | 229 |
| ART MR1 | 199 |
| ART FXR Elite 2 | 379 |
| Boss SX700 | UK LOWEST |
| Digitech TSR24s | 699 |
| Digitech GSP2101 | 849 |
| Digitech Studio 5000 | 849 |
| Digitech Vocalist II | 449 |
| Digitech Studio Quad | 449 |
| Ensoniq DP4+ | 899 |
| Ensoniq DP2 | 549 |
| Korg iH Vocal Harmony | 339 |
| Roland SDX330 | 699 |
| Roland SRV330 | 619 |

| | |
|-----------------------|-------------|
| Roland SDE330 | 699 |
| Roland RSS10 | 1999 |
| Roland AP700 | 1489 |
| Roland RV70 | 349 |
| Roland RE800 | 229 |
| Tascam DA20 | 739 |
| Tascam DA30 | 1149 |
| Yamaha SPX1000 | 1099 |
| Yamaha D5000 | 1199 |
| Yamaha SPX990 | 889 |
| Yamaha REV100 | 219 |
| Yamaha MS2021 | 199 |
| Yamaha Pro R3 | 849 |
| Yamaha MT8X (8 track) | 999 |
| Yamaha MT50 (4 track) | 329 |
| Yamaha MT4X (4 track) | 499 |
| Fostex D80 | UK LOWEST |
| Panasonic SV3800 | UNPRINTABLE |

KEYBOARDS, SYNTHS & PIANOS

| | |
|-------------------------------|------------|
| Alesis QS6 | 759 |
| Emu E4K | 2999 |
| Ensoniq TS10 | 1649 |
| Ensoniq TS12 | 1849 |
| Ensoniq SQ1+ | 749 |
| Full range of Fatar in stock, | FROM 129 |
| Novation BassStation | CALL |
| Korg Trinity | 2099 |
| Korg Trinity Plus | 2399 |
| Korg Prophecy | 919 |
| Korg X5D | 749 |
| Korg X3 | 899 |
| Korg 15s | 949 |
| Kurzweil PC88 | 1699 |
| Kurzweil PCB8MX | 2049 |
| Kurzweil K2000 | SEE OUR AD |
| Kurzweil K2500 | 3899 |
| Kurzweil K2500X | 3999 |

| | |
|--|--------------|
| Roland XP80 | 1699 |
| Roland XP50 | 1349 |
| Roland XP10 | 549 |
| Roland A90EX | 1799 |
| Roland A90 | 1549 |
| Roland A33 | 379 |
| Roland DJ70mk2 | 1479 |
| Roland G800 | 1499 |
| Roland FPI | 1479 |
| Roland RD500 | 1549 |
| Full Roland E series in stock | UK LOWEST |
| Yamaha CS1X | UNPRINTABLE |
| Yamaha SY85 | 699 |
| Yamaha QS300 | 999 |
| Yamaha P150 | UK LOWEST |
| Yamaha VL1 | EX-DEMO 2799 |
| Full range of Yamaha digital pianos in stock | |

ALL PRICES
INCLUDE
VAT,
DELIVERY
AND 2 YEAR
WARRANTY

TEL: (01923) 246282 / (01923) 444599 FAX: (01923) 246669 WEBSITE: [HTTP://WWW.ACTIVE_SOUND.CO.UK](http://www.active_sound.co.uk)
OPEN MONDAY TO FRIDAY 10AM-6:30PM (SATURDAY 11AM-5:30PM).

CALL NOW ON:

01923 444599

1 2 L I N E S

OR FAX ON:

01923 246669

EUROPE'S LOWEST PRICES - GUARANTEED!!!

...creative technology

ACTIVE SOUND

MAIL ORDER SPECIALIST

GUITAR EFFECTS AND AMPLIFICATION

| | | | | | | | |
|------------------------------------|------|--------------|-----|--------------|-----|---------------|----------|
| ART Tube MP | 159 | Roland GP100 | 739 | Roland JC120 | 629 | Roland BC30 | 249 |
| ART Xtreme | 279 | Roland GR09 | 689 | Roland JC85 | 449 | Roland AC100 | 649 |
| Full range of Boss pedals in stock | | Roland GI10 | 429 | Roland JC20 | 179 | Roland KC500 | 599 |
| Roland VGB | 1799 | Roland GK2A | 119 | Roland BC60 | 399 | Practice amps | FROM £60 |

STUDIO PACKAGES AND PRO-AUDIO EQUIPMENT

| | | | | |
|----------------------|-----|-----------------------------------|----------------|-----|
| Alesis ADAT | POA | Soundtracs - Topaz Maxi & Project | AUDIO-TECHNICA | |
| Emu Darwin | POA | Yamaha NS10's +Pro Mix 1 etc. | AT 4050 | 799 |
| Roland VS880 | POA | EV | AT 4033 | 499 |
| Fostex DMT8 | POA | Mackie | AT4041 | 249 |
| AKG - C1000s & C3000 | | Allen & Heath | Beyer Mics | |

All available now in different variations of bundled packages - 0% interest free - Full range of Soundscape in stock now!! Demos available
Massive selection of high quality studio accessories/cable/leads headphones
Lexicon / Omniphonics / Gefel / SPL / Focusrite / Akai / Drawmer / DBX / JL Cooper / Aphex / C-Audio / Digitech
Call Dave West today for TOTAL ADVICE.

ACTIVE BUNDLE SPECIAL

COMPLETE MUSIC SYSTEMS

| | | | |
|---|-------|--|-------|
| Pentium 75 Mhz | | Pentium 100 Mhz | |
| 1GB Hard disk | | 1GB Hard disk | |
| Quad speed CD ROM | | Quad speed CD ROM | |
| 8 MB RAM | | 8 MB RAM | |
| 14" Monitor | | 14" Monitor | |
| Keyboard | | Keyboard | |
| Mouse | | Mouse | |
| Tahiti and Yamaha DB50XG Hard Disk recording cards | £1634 | Tahiti and Yamaha DB50XG Hard Disk recording cards | £1784 |
| 49 Key Midi Master Keyboard (if purchased with Music System) | £79 | | |

WHY YOU SHOULD BUY FROM US:

We offer same day next day delivery service
Payment on delivery

Tailor designing systems to suit your requirements

Authorised service centre

Educational discounts

Installation and training

Part exchange welcome

Demo suite
Try before you buy

Viewing by appointments only

Account customers welcome

Payment by:
Access/Visa/Switch etc. Cash/Postal Order/Transfer
Instant Cheque Clearing

0% INTEREST FREE FINANCE APPLIES TO ALL ADVERTISED PRODUCTS & DEALS

KURZWEIL

Music Systems

KURZWEIL K2000 RACK OR KEYBOARD

0% INTEREST FREE
£1899 (RRP £2299)
£189 DEPOSIT
18 MONTHLY PAYMENTS OF £95

OR BRAND NEW RELEASE

KURZWEIL K2DD (DANCE DEVELOPMENT MODEL)

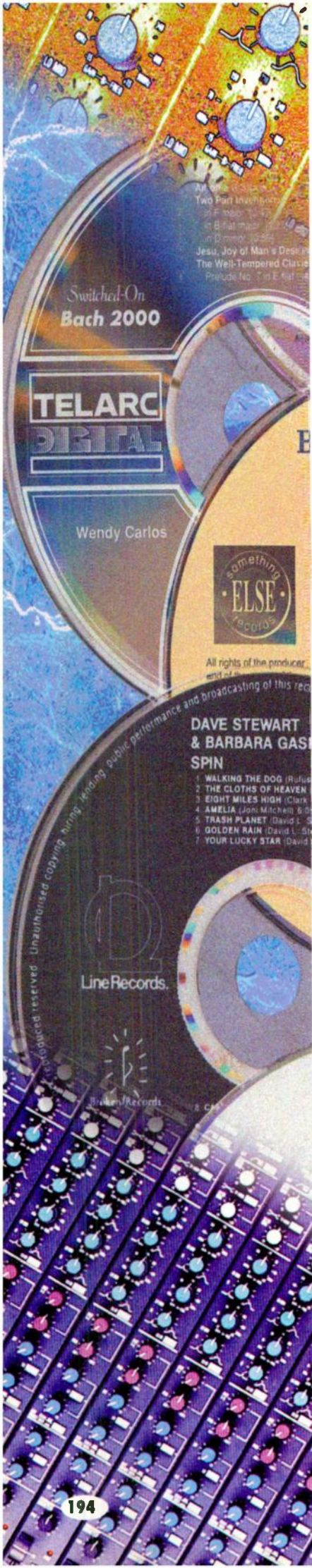
£1949 (RRP £2319)
£194.90 DEPOSIT
18 MONTHLY PAYMENTS OF £97.45

ALL UPGRADES INC SAMPLE OPTIONS AVAILABLE - 1/2 PRICE MEMORY AVAILABLE NOW!

LIMITED OFFER WHILE STOCKS LAST!



ACTIVE SOUND (UK) LTD., PARK HOUSE, 15-19 GREENHILL CRESCENT, WATFORD BUSINESS PARK, WATFORD, HERTS, WD1 8QU
SEE US AT THE BIRMINGHAM GUITAR SHOW (JUNE '96) & LONDON MUSIC SHOW (NOVEMBER '96)



How to become a Record Producer

▶ learn every detail of how to get a good mix. A producer, on the other hand, doesn't need to know the details but has to be able to recognise when something is right, and offer meaningful comments when it isn't. You need to keep in mind the purpose of the mix. Is it a dancefloor mix that should sound great on a club PA? Or is it intended for CD listening at home? A radio mix should emphasise the 'buy me' factor, whatever it is that will attract the listener to the record store.

The engineer will always sit in the optimum listening position, directly between the speakers, while mixing, but you will probably wander around the room. This is so you have the opportunity to hear the mix in less than perfect conditions, which is exactly the way the record buyer will hear it — in a club with the bass turned up to stomach-pounding

“On average, people probably listen to each record they buy about six times; the producer of the record has to listen to it more like six hundred times during the recording and mixing process.”

volume, or on an average home hi-fi, or on a car radio in heavy traffic, with a hole in the exhaust. Your mix has to sell the song in each of these situations, so while the engineer considers the finer points which will only be appreciated by those with good quality home stereo systems or a decent pair of headphones, you will be looking for the overall impact. If the mix sounds good from any listening position in the control room, it probably *is* good.

All studios have two or more pairs of monitors, so you can check the mix on very high-quality speakers or on the console-mounted nearfields. You can also have a cassette copy made so you can check the mix on a cheap stereo system, on a Walkman, or in the car. The more ways you can listen to the mix, the better.

STEREO FORMAT

Most multitrack recordings are mixed to DAT these days, but at a professional level, DAT isn't always

considered to be entirely satisfactory. For one thing it's only 16-bit, which means that its sound quality isn't any better than the CDs people listen to at home. The engineer, therefore, has absolutely no headroom to play with, and inevitably there is a margin of unused capability that makes the recording not quite as good, technically, as it ought to be. It won't be too long before we see 20- or even 24-bit stereo formats in the studio on a regular basis, although it might be some years before any one is accepted as a standard. In the meantime, many producers are opting for the 'old fashioned' alternative of analogue reel-to-reel tape. They don't use a battered old Revox, however. Top studios have slightly worn but well maintained Ampex or Studer stereo machines that run at a speed of 30 inches per second (twice the 15ips long considered the professional norm) and take half-inch rather than quarter-inch tape. Such a machine isn't totally transparent but has a definite sound of its own, and it's a sound that producers like, particularly if a recording has been made on a digital rather than analogue multitrack. The frequency response is, in fact, better than DAT or CD, which can only manage around 20kHz at the top end. Half-inch analogue at 30ips can go up to 25kHz and beyond, and quiet signals can still be clearly heard below the already low noise floor — even without Dolby SR noise reduction. There are many who will say that half-inch is better than digital for these reasons, and so many successful records have been mixed to half-inch that it is difficult to disagree.

When the stereo master is finished, the producer's work continues into the CD mastering studio. This is the final stage, where the stereo master is committed to a U-Matic video tape or Exabyte data cartridge. After this, no further alterations can be made to the sound. CD mastering isn't quite such a creative opportunity as vinyl mastering used to be (mostly because of the technical limitations of the medium). It is, however, a chance to make sure that all the tracks have the right relative levels, EQing and compressing where necessary. You'll also set the length of the gaps between tracks, and perform any crossfades between tracks that you think are appropriate (and to hell with radio plays!).

When you leave the CD mastering studio, your work as producer is complete and you can look forward to the financial rewards for your labours. Actually, you may also have to look forward to your recording being handed over to specialist remixer — a fact of life that you will accept as gracefully as a true professional would! (See box on the Rapino Brothers.) Next month, in the final part of this series, we'll look at the business aspects of enjoying a long and fruitful career as a record producer.

SOS

BANDWIDTH



Backing vocals without the dropped notes; without the tantrums; always in time (and always on time) and truly affordable - for musicians and bands of all levels. DigiTech have brought harmonisation a long way since the early 'Pinky & Perky' sounding units on the market a few years ago. Now any act can benefit from classy, complex harmonies of stunning realism and accuracy, giving the sound 'width' without the usual associated wagebill.

The simple-to-use and affordable **MIDI Vocalist** has been designed for musicians who want instant vocal harmonies without programming. It creates, automatically, up to five part natural-sounding harmonies from one voice input.

Aimed at the demanding professional needing high quality vocal thickening, harmonies and pitch-

correction, the advanced **Studio Vocalist** offers total programmability and a host of features such as individual voice outputs and 'Gender Bender' technology which allows the choice of male or female-sounding harmonies.

STUDIO VOCALIST



- Natural harmonies and pitch correction
- Full frequency response (20Hz - 20kHz)
- Separate outs for each voice
- XLR and 1/4" jack ins and outs
- Gender Bender technology
- 48v phantom power
- Keystroke MIDI out for automation
- Optional Digital I/O

MIDI VOCALIST



- 4 voice detune for vocal thickening
- Vocoder mode for triggering harmonies via MIDI notes
- Chordal mode for automatic vocal harmonies
- Scalic mode for dynamic harmony motion
- Front panel XLR/mic. connection
- 1/4" line level input
- Bypass activation (external f/switch)

For the technically minded, the Studio Vocalist boasts full (20Hz-20kHz) bandwidth to capture more of the voice's natural overtones. However, impressive specifications only tell half the story. For only £9.95 (inc. P+P) our demo CD will reveal the Studio Vocalist's amazing musicality.

Alternatively arrange a demo at your DigiTech dealer and the Vocalists will speak for themselves - breathtakingly realistic vocal harmonizers to widen your band's horizons.

STANDARD MIDI FILES: THE REVOLUTION



Standard MIDI Files (SMF) discs contain MIDI data for complete backing tracks of popular songs when used with MIDI sound sources such as synthesizers and drum machines. The Tune 1000 and Heavenly Music ranges of Standard MIDI Files have pre-programmed harmonies, fully compatible (via Vocoder mode) with the DigiTech Vocalist range.



Distributed exclusively by

ARBITER
MUSIC TECHNOLOGY

A division of Arbiter Group PLC
Wilberforce Road, London NW9 6AX
Tel: 0181 202 1199 Fax: 0181 202 7076



ALL HANDS ON DECKS!

TASCAM 302 DUAL CASSETTE DECK

PAUL WHITE takes
*Tascam's new dual
cassette deck into
the studio for
practical trials.*

Most dual cassette decks are pretty sad affairs, best suited to the less quality-conscious listener who wants to make a quick bootleg of a friend's tape for in-car or Walkman listening. The fact that this is a copyright infringement doesn't seem to put anyone off, but then looking at it from another angle, there are so few opportunities for radio airplay of anything other than mainstream pop that bootlegging may well be the only effective marketing tool the record companies have left!

While there are few legitimate uses for a dual cassette deck, one such is in the project studio, where clients frequently want to run off a handful of tapes from their own master. Indeed, I have a TEAC W525R dual deck in my studio for this very purpose, and like many of these decks, it offers regular or double-speed copying for a choice between speed and convenience or highest quality.

Basic dual decks are pretty limited in what they can do, because you can usually only record on one of the decks. It would be more useful sometimes if you could record on both at once — especially if your master tape is being played from DAT and not using up one of the cassette decks.

DUALITY BITES

Enter the dual deck that does it differently — the 3U rackmount Tascam 302. Both decks can be used to record and play with dubbing from decks one to two at either standard or double speed. A number of professional features have been included, making this deck very flexible both in the studio and in sound installation applications. Perhaps the most important ability is that of being able to record on both decks at once, but there's also a Cascade feature which allows multiple 302s to be connected and controlled from a single deck for quantity copying applications. Here, the master tape can be a cassette in deck one of the master

machine, or it can be an external source, such as a DAT machine. Conventional phono leads are used to cascade the audio, with a further set of phono leads needed to cascade the external control connections. Each machine also has a socket for an optional hard-wired remote control.

For background music applications, the two decks can be set up to play sequentially, and because the mechanisms auto-reverse, you can play all four sides of two cassettes in order before having them repeat. By linking multiple 302s, you can have as many tapes play sequentially as you like.

The deck facilities are identical for each of the two tape drives, and each has totally independent controls apart from those associated with deck-to-deck dubbing and auto-reverse playback. Separate audio ins and outs are provided for the two decks, but these can be switched to Common mode so that only deck one's inputs are required when making duplications. There's a choice of Dolby B, Dolby C or Off for noise reduction — again independently switchable for the two decks — but there's no HX Pro (a headroom expansion system used in conjunction with Dolby noise reduction to prevent high-frequency tape saturation). Each deck has its own Pitch Control, Input Level and Record Balance pot. Master/Slave switching status is provided for applications where multiple machines are being used, and the headphone output may be switched to either deck. Other than that, the transport controls are pretty conventional, with a Return To Zero function and a 4-digit tape time counter. A custom fluorescent display provides counters and bargraph record level meters for both channels, and the tape doors are nicely damped so that they open slowly when Eject is pressed.

In use, the Tascam 302 delivers clean, bright recordings within the constraints of the cassette format itself. Slight wow and flutter was evident near the beginning of some budget cassettes, but I guess few machines would do better under the same circumstances. The varispeed option is welcome, as it allows master tapes made on poorly-calibrated machines to be brought back to concert pitch. Overall, the audio performance of this machine compares well with most mid-price hi-fi decks.

Though more costly than your average dual cassette deck, the Tascam 302 is a genuinely useful machine to have around the studio. It can handle the odd high-speed dub with ease, yet at the flip of a switch, it can make two real-time copies from an external source. Add one or more additional machines and you have a real-time copying suite. The continuous replay facilities are less useful in a studio environment, but they're well thought out and effective. Definitely a step up from your regular dual deck.

SOS

£ £499 inc VAT.

A TEAC UK, 5 Marlin House, The
Croxley Centre, Watford, Herts,
WD1 5YA.

T 01923 819630.

F 01923 236290.

info

pros & cons

TASCAM 302 £499

pros

- Allows you to record on both decks at once in real time, or dub from one to the other at single or double speed.
- Cascading option for multi-machine dubbing.
- Dolby B and C noise reduction.

cons

- No HX Pro.

summary

A useful studio deck for producing small runs of copies from cassette or external sources such as DAT masters.

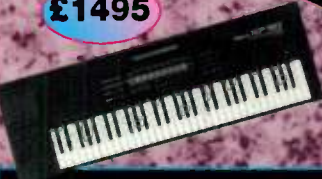
SOUND ON SOUND

INTASOUND

70 Narborough Road, Leicester
FREEPHONE 0500 515256 Fax: 0116 233 6687

Intasound have done it again! You can buy now, pay nothing for 6 months then take up to 18 months interest free credit on all the items in this section

£1495



Roland XP50

and you receive a voucher entitling you to 15% of all your XP50 expansion boards.

£999



Korg Prophecy

£1099



Quasar

£799



Technox

£1799



Akai S3000 XL

£1195



Roland JV1080

and you receive a voucher entitling you to 15% of all your JV1080 expansion boards.

£599



Yamaha CS1X

£999

AKAI S2000

Akai sample library in stock

£1595



NEW

New Quasimidi Raven

Cyber - 6 in stock

£999



Yamaha SY85

and get 10 free sound disks

£499



New Roland Expansion Series

Dance, Orchestral, Vintage & Strings

Korg Trinity
 Trinity + £2795

£399

Bass Station Rack

NEW



Roland MC303

The next Roland Dance Classic

£565

£599



Waldorf Pulse

£1195



Yamaha QS300

£1099



Korg X3

NEW V.2



Nord Lead

Nord Rack In Stock

£1495

£899



Alesis QS6

£869

E-MU Orbit

Mackie SR32.4 £1799
 Mackie SR24.4 £1495
 1604 VLZ £949
 1402 VLZ £549
 1202 VLZ £399

All available on interest free credit

Mackie & Buss

In Stock

Yamaha Pro Mix 01
 £Call

Digital Recording

C-Lab Falcon X

1G Hard Disk
 FDI installed including keyboard + Mouse £1482
 Cubase Audio 16 £699

Yamaha CBXD5 £1699

Free Cubase Audio (PC)
 Free Logic Upgrade (Mac)

ALESIS ADAT XT £CALL

in stock and on demo

Roland VS880

£1495

NEW

INTASOUND DJ

Akai Remix £899
 available on interest free credit

Roland DJ70 II £1695
 Available on interest free credit

Roland MS1

Call

Yamaha SU10

£299

CLEARANCE

| | |
|---------------------------|-------|
| Roland R70 | £349 |
| Roland JV35 (New) | £549 |
| Roland JV50 (New) | £699 |
| Roland MC202 | £249 |
| Boss DS330 | £249 |
| Yamaha TG100 (New) | £249 |
| Kawai KII (New) | £549 |
| Kawai KC20 (New) | £399 |
| Yamaha QY20 | £279 |
| Alesis Quadrasynth (Demo) | £699 |
| Yamaha MU80 | £449 |
| Korg 05RW | £375 |
| Roland JX3P | £250 |
| Roland R8M | £299 |
| Akai S1000 10Mb SCSI | £1395 |
| Akai SO1 (Demo) | £599 |
| Roland MS1 (New) | £325 |
| Roland D70 | £675 |
| Korg M1 | £675 |
| Korg M3R | £299 |
| Yamaha DX9 | £175 |
| JL Cooper Mix Master | £149 |

Media Revolution



There are now more recording media and data storage formats than ever before. PAUL WHITE catches up with Pro Tape's Richard Symons, to discuss the role of tape in a multi-platform future.

RICHARD SYMONS OF PRO TAPE

Richard Symons is a partner at Pro Tape, the well-known West End recording media supplier, which puts him in a very good position to monitor trends and feelings within the recording industry. I started our interview by asking for Richard's impressions of how the market is responding to digital technology.

"People entering the market are going for ADATs or DA88s, or in some cases they may have a MIDI system plus some kind of direct-to-disk system, mastering to DAT, but once they find some success and start working with outside record producers, and certainly with a record company, they tend to move up to analogue 2-inch tape."

Is this a matter of sound quality, or is there more to it than that?

"I think it's more for the sound quality, but you can't say it's superior — it's just different. And there's the reliability factor. Both 8-track digital formats are great because of their low cost, but dropouts do happen, especially if it's a long project and you do a lot of shuttling, dropping in and out, and so on. They've done very well in the live recording field, but even then, the top-end professionals are more likely to use open-reel digital or open-reel analogue machines if they have the choice. The new high-output analogue tapes let you record using more level than with standard tapes, which means you get closer to a digital signal-to-noise performance, while retaining the benefits of the analogue sound."

It's true that there is a perceived difference between the analogue and the digital sound, but it's probably also true that analogue

recording is about as good as it's going to get, whereas digital formats can still be developed a long way from where they are now.

"But would you want anything better than some of the analogue records you've got?"

Not from the sound quality point of view, but digital surely has numerous benefits: the

PROTAPE

signal on tape stays unchanged once it has been recorded, you can make accurate clones — which you can't do with analogue — and digital systems can give you true gapless punching in and out.

"So you're happy with the sound of analogue, but not with its versatility from an editing point of view. I totally agree, and digital technology should improve with time to give us the same quality. I'm just waiting for that time. Also, I'm not sure how big a problem high-end loss and additional noise from copying and bouncing is on 2-inch tapes, though on smaller formats you might worry about it. Digital has a very clear advantage if you're editing or cloning material, and track bouncing is quieter, but then not too much bouncing goes on at a professional level. There's a technical paper doing the rounds which says that to make digital audio work acceptably, you need a sampling rate of 256kHz, and if that's the case, it's going to be a long time before it becomes practical because of processor speeds — not to mention the data storage requirement. At the moment, you can get an album (stereo) onto a 1Gb drive sampling at 44.1kHz, but that would go down by a factor of about six."

ON BORROWED TIME

One of the things you've spoken to me about before is the fact that analogue recording equipment and media is designed specifically for that purpose, whereas most digital technology and media is borrowed from some other market area. For example, ADATs use video tape. Is this a major concern, or are



Alesis's ADAT XT and the S-VHS tape it uses: "We now have a professional audio format which evolved out of a consumer video camera format!"

The

AKAI

Family Album

The close-knit Akai family of professional hard disk recording products all share the advanced component design of the DD1500, the mother of all audio post-production workstations. Entirely purpose designed for the dedicated recording, editing and syncing of audio to picture, the line is continued by the Akai DR8, an 8 track hard disk digital recorder/player as easy to use as a conventional MTR and its bigger brother, the DR16 which shares the family's powerful non-destructive editing facilities and gives a surprisingly low price level per track. Up to eight DR16s and DR8s can be chained together in combination to give a maximum of 128 tracks. **The family that plays together, stays together.**



Akai DD1500

Digital audio post-production workstation

- All primary functions accessed from dedicated keys
- No mouse or drop-down menus
- Smooth, fast operation thanks to proprietary LSI chips and multitasking operating system
- 8 track recording on a single M/O disk or 16 tracks on a hard disk
- Powerful, easy to use editing with all 16 tracks visible on screen
- Highly sophisticated synchronisation abilities including reverse play and slow motion
- 16 channel digital mixer
- Remote operation up to 200 metres away
- Disks compatible with DR8, DR16 and DD1000

Akai DR8

8 track hard disk digital recorder/player

- 16 bit linear professional quality 8 track simultaneous recording/playback
- Logical format of conventional MTR tape machine
- User choice of hard disk fit, fixed or removable
- Non-destructive editing facilities
- Disk random access allows instant playback or edit
- Standard digital interface allows 16 track backup to DAT
- Built in 16 channel programmable mixer
- Same synchronisation performance as DD1500
- Optional VGA output board
- Extensive range of common DR8/DR16 interfaces for upgrading
- Disks compatible with DR16 and DD1500



Akai DR16

16 track hard disk digital record/player

- 16 tracks of 16 bit linear digital performance from a single SCSI hard disk, fixed or removable
- Highly cost-effective price level per track
- As easy to use as a conventional MTR
- Standard digital interface allows 16 track backup to DAT
- Total editing with zero loss
- 16 channel programmable mixer
- Same synchronisation performance as DD1500
- Optional VGA output board
- Extensive range of common DR16/DR8 interfaces for upgrading
- Disks compatible with DR8 and DD1500



AKAI DIGITAL

Akai (U.K.) Ltd E.M.I. Division, Haslemere Heathrow Estate, Parkway, Hounslow, Middlesex TW4 6NQ. Tel. 0181 897 6388 Fax. 0181 759 8268
Contact Akai Electric Co Ltd for details of your local Akai Digital distributor

LIFE AFTER ANALOGUE

It seems to me that the life of the medium used for storage didn't change for the better when we switched to digital. While some analogue recordings have suffered from so-called 'sticky shed' syndrome, there are still playable analogue tapes made decades ago. By contrast, digital tapes such as DAT, or even removable hard drives and writeable CDs, tend to have an estimated life span in the order of 10 years.

"Certainly with DAT and the smaller formats, 10 years may be all we can expect from them. If you want to keep a stereo master intact for as long as possible, it needs to be on a minimum of quarter-inch, or preferably half-inch, analogue tape. The sticky shed problem only afflicted certain types of tape, and even then we can't be certain how carefully all of it was stored. People can be very careless about how they store

tape — all the effort goes into the creative process, then the master DAT gets stuck on a shelf.

"It's amazing that the National Sound Archive can still get recordings to play back that were made on wax cylinders as long ago as 1904. Somebody actually took the machine into the jungle to make ethnic recordings, but I'm prepared to put money on it that if they'd gone out with a DAT machine, we wouldn't be listening to the original recording now. You might say that we don't need to listen to the original because we can clone it, but that only stands up if you can make the copy before the original degrades and starts dropping out. So you'll replay the DAT and at the slightest hint of dropout, you'll make a copy. That's fine, but by the time you've realised there is a problem you've lost some data

already, and who has time to check all their old recordings?

The irony with the National Sound Archive is that they're transferring all their material to DAT.

"The basic problem centres on the fact that we're using less and less space to store more and more information. In ancient Egypt, a full stop carved into a block of stone would have occupied a three-inch-square space for a single bit of information. Five thousand years later, even though the edges have been rounded off by the elements, we can still read it. Nowadays, an optical disk of the same dimensions can store 230 million bits — which is an amazing leap — but you've only got to mishandle the disk by leaving it in the sunlight or next to a heat source, and you run the risk of losing some of that data. Of course, this is using two extremes of information storage technology, but I hope it illustrates the point."

use between a consumer product and a professional one is the out-and-out hammering the pro gear is designed to withstand. You can soup up the hardware all you like, but the ultimate limitation is with the format itself. With DAT, DA88 and ADAT, you're squeezing a massive amount of very important data onto consumer formats and then expecting them to perform to professional standards in a professional environment. I suppose what I'm saying is that I'd like to see a digital format designed from the ground up, in the same way that 2-inch analogue was. You look at what the pro user needs — let's say a 256kHz sampling rate with 24-bit resolution — then you build a format around that requirement, instead of looking at available mass-produced technology and then adapting it as best you can."

FORMAT FUTURE

How will your business be affected by the way in which hard disk is becoming more popular for recording and editing work? This is another example of technology developed for one market area being used for audio work, and just one of the problems that came up was that of thermal recalibration, where hard drives would interrupt the audio flow during playback to calibrate themselves.

"We supply information-bearing media, so as long as people want to store information, we will supply whatever is needed."

So if, in 10 years, we're recording onto holographic perspex cubes, you'll be selling them?

"Yes! But I think there's still a lot of life left in analogue tape, just for esoteric reasons, the same as there is in valves. Look how well Tony Larking is doing with his valve range. And a lot of that is down to the way digital audio sounds.

"Two-inch tape is in a slight decline but it's still doing very well, and part of the credit must go to the high-output tapes [Ampex 499, BASF 900 and 3M 996], which can be run at 30ips with no noise reduction to produce unbelievably good results. ▶

Ampex's high-output 499 2-inch tape — still flying the flag for analogue.



"Studio owners tell me that when they ask an artist what they want to master on, the answer is almost always DAT — until they hear an analogue half-inch master."

▶ we merely benefiting from the economies of scale?

"It is a concern. Take 8mm tape. It starts as a camcorder tape, you soup up the tape formulation and the electronics so you can get more information onto it, and out of that grows Hi-8 and a data storage format. Finally it gets bastardised into a digital 8-track, so now we have a professional audio format which evolved out of a consumer video camera format.

"The pro audio business is very small, and as you've probably heard, 3M have pulled out of tape sales altogether. If you look at their professional tape sales, they are very good, but seen as part of their whole tape business, which includes video tapes and audio cassettes, it's really a very small part. Professional audio will always be insignificant compared to consumer formats, which makes it impractical to develop media specifically for pro-audio recording, with the exception of the top end. On the other hand, because consumer formats are cheap commodity products, the running cost of any system that uses them is very low and there are lower hardware development costs.

"The downside is that none of it is really professional — even DAT is, strictly speaking, a failed consumer format, and if it had been designed from the start as a professional format, it would have been far more robust. Even digital U-matic uses a professional video player. Audio is always the poor relation, and the main difference in

A Shure Wireless System for under £300 (with no strings attached.)

Shure T-Series Wireless Systems

You don't need to spend a small fortune to own a professional-sounding wireless system. Just step up to one of Shure's high performance, highly affordable T-Series systems.

Whichever you select, you'll get a system that's custom designed for your application, with an impressive array of standard features you'd expect to find only on the most professional systems.

Shure's exclusive 'battery saver' technology provides up to 18 hours of battery life and operates in conjunction with two LED indicators; one for on/off and another to warn when battery life is low. A convenient mute switch delivers noiseless control of on/off functions, while Shure's noise squelch circuitry virtually eliminates noise bursts.

Alternative systems are available with Shure's exclusive MARCAD® diversity receiver with its intelligent circuitry. MARCAD monitors and combines signals from two radio antenna, while eliminating dropout and switching noise.

So say goodbye to amateur hour and take a closer look at the wireless systems that can take you as far as you want to go.



THE VOCAL ARTIST

Enjoy the total freedom of movement which only a wireless system can provide - plus a choice of microphone heads, Shure's world-standard SM58 or the popular BetaGreen 3.0 microphone head.

Model ETV30S (BG3.0 head) **£259 +VAT**

Model ETV58S (SM58 head) **£295 +VAT**

THE GUITARIST

Designed to deliver the full sound you'd expect from a wired setup. The Guitarist offers Shure's highly reliable surface mount technology and input gain adjustment for the best signal-to-noise ratio with the widest range of guitars.

Model ETGS **£195 +VAT**

THE HEADSET

Shure's ruggedly built new wireless system delivers top-quality sound and worry-free reliability. It's lightweight ultra-comfortable and fully adjustable. And will withstand hour after hour of highly active use. The unique head band keeps the headset securely in place.

Model ETHS **£295 +VAT**

THE PRESENTER

Delivering wireless convenience from pulpit to podium, from small rooms to large venues. Shure's low-profile WL93 miniature lavalier microphone is among the smallest in the business. It offers crisp clean sound along with outstanding reliability.

Model ETPS **£245 +VAT**

All systems come ready to plug-in and play. Prices shown above for complete standard Systems, all models also available in Diversity versions.

SHURE

HW International, 167-171 Willoughby Lane, London N17 0SB Tel: 0181-808 2222

Please send me details on Shure T-Series Wireless Microphones

Name _____ Address _____

Postcode _____

RICHARD SYMONS OF PRO TAPE

► Quarter-inch tape has almost totally lost out to DAT, except in the areas of location recording for film, while half-inch soldiers on as the superior stereo mastering format. Studio owners tell me that when they ask an artist what they want to master on, the answer is almost always DAT —



DAT's inexorable rise as a format — even in areas like film location recording, where analogue quarter-inch tape retains a foothold — has been aided by handy machines like the HHB PortaDAT shown here.

until they hear an analogue half-inch master. It sounds unbelievably good. It's still quite worrying that they have to sell people the idea of mastering onto half-inch as well as DAT."

One thing that worries me to some extent is that as new technologies emerge, we're ending up with a huge proliferation of formats, not only in tape, but in removable digital media such as Zip drives, Jaz drives, the various SyQuest cartridges, and so on. Do you see this as being a problem area?

"I think that probably keeps us in business, to be honest. What concerns me more is the reliability of the new formats — for example, the Zip disks have a lifetime guarantee, but what does that mean? As yet, they haven't been around long enough to prove that they're up to the task. Our society is becoming increasingly dependent on information, and manufacturers are exploiting that very effectively, giving us immediate access to a whole world of it. I'm just very concerned about how much attention is being paid to the longevity of the data we create, use and store. History gives us the best sense of perspective we can ever have, and we need to preserve it as a means of measuring how we move forward, learning from our mistakes, and even just enjoying a past era. That used to mean preserving films, books, art and artifacts, but in the completely digital near future, how much will be retrievable just a quarter of a century down the line?"

BACK TO BACKUP

Most people are now familiar with the benefits of hard disk recording and editing, but of course the big

problem is where to back up data. What are the professionals doing?

"They're using tape streamers of some sort. We're selling a lot of Exobyte, with data DAT a close second. Optical disks are also great, but the cost is still too high for most people and the capacity isn't there. A 1.3Gb optical disk costs around £50. Of course, that will keep coming down, but at the moment, the tape-based systems are still the most cost effective. The better Exobyte systems have a read-after-write facility, so they won't go on to writing the next bit of data until they've confirmed that what they've just written is OK."

Is CDR a useful archiving medium?

"Well, it is susceptible to heat and light, but the truth is that we really don't know. You can do accelerated ageing tests on all these media, but the only way to really find out what will happen is to sit around for 10 or 15 years and wait. We see guaranteed archival figures varying from 10 to 100 years. I wouldn't want to guarantee 100% data integrity for much more than 10 years with CDR."

Does this mean that there ought to be more boxes for checking the error rates in media so that we know when it's time to clone?

"Some studios have that facility, and certainly you can get error printouts for U-matics, but yes,

"There's a technical paper doing the rounds which says that to make digital audio work acceptably, you need a sampling rate of 256kHz, and if that's the case, it's going to be a long time before it becomes practical."

we have to build up a backup mentality where digital data is concerned, and we have to store the media with respect. Tape gets taken for granted until there's a disaster.

"Last month, a big production house who use a SADiE hard disk editor and store the end results to DAT were having terrible problems with data errors on DATs, but they can't pin it down to one

CDR: storage medium of the future, or only good for 10 years?



MUSIC SOLUTIONS

AKAI

Unbelievable prices on AKAI samplers!

| | |
|----------------------------------|-------|
| S3200XL 16mB EXP TO 32MB | £3499 |
| S3000XL 2MB EXP 32MB | £1799 |
| S2000 2MB EXP 32MB | £999 |
| REMIX 2MB EXP TO 18MB | £849 |
| TIME + SPACE CD ROMS & AUDIO CDs | |
| HARD DISC RECORDING | |
| Akai DR4 vr - 250 virtual tracks | £1095 |
| AKAI DR8 INC. Jazz Drive | £2999 |
| AKAI DR16 +2GIG AV HD Drive | £4295 |

In Stock! Book Your Demo Now

MIXERS

| | |
|-----------------------------|-------|
| Allen & Heath GS1 | £999 |
| Allen & Heath GS3-V 16:8:16 | £1999 |
| Allen & Heath GS3-V24:8:24 | £call |
| Soundcraft Spirit Studio24 | £call |
| Soundcraft Spirit Studio 16 | £call |
| Mackie 32-32-8 OR 24PKGS | PHONE |
| Samson MPL 1502 | £499 |
| Samson Audio MPL 2242 | £685 |

KEYBOARDS MODULES

| | |
|------------------------------------|----------|
| Roland PC200 | £169 |
| Roland A90 (Controller) | £Special |
| Roland XP80 | £Special |
| Yamaha CS1x 128 Performance sounds | £599 |
| Yamaha QS300 | £Special |
| Alesis QS6 64 voice synth NEW | £899 |

KURZWEIL

| | |
|-----------|-------|
| PC88 | £1830 |
| K2000 V3 | £2120 |
| K2000 V3R | £2120 |
| K2500 | £2995 |

MODULES

| | |
|-------------------------------|-------|
| Midiman Gman GM/GS | £199 |
| Alesis DM5(Drums) | £479 |
| Roland JV1080 | £1099 |
| Ensoniq MR Rack 64 voice 12MB | £1250 |

COMPUTER SEQUENCING SOFTWARE

| | |
|-------------------------|------|
| Cubase VST(MAC) | £325 |
| Cubase 8 core V3 VST | £469 |
| Emagic Logic (Mac PC) | £389 |
| Emagic Logic Audio (PC) | £399 |

Simms Memory! Simms Memory!

| | |
|---------------|------|
| 4 Meg 72 pin | £80 |
| 4 Meg 30 pin | £85 |
| 16 Meg 72 pin | £220 |
| 16 Meg 30 pin | £380 |



The last year has seen the rise of new removable digital media, like the Omega Zip drive shown here: "As yet, they haven't been around long enough to prove they're up to the task".

machine. They'd check the playback at their own studio, send it to the BBC, who also checked it on receipt, then when it's been transmitted, there's been a major dropout. Sometimes it's happened in the studio and it's been the only copy — completely random. If you're relying solely on DAT and you don't have a backup, you can lose a lot of work in one go. It means that you can't always be 100% confident that your work is intact, so if you're making a CD master from DAT, you really need to sit in and listen to every second of it as it goes across, to make sure it's OK."

To put things in perspective, most people manage most of the time without any problems. I've used DAT since it first came out and I've had few problems that couldn't be traced to either a faulty tape or machine incompatibilities. The same with ADAT — I can't remember ever having a dropout while using the recommended tapes, though I have had clients who've brought in recordings made on other S-VHS tapes and some of those have thrown up serious errors. I would imagine that one cause of reported ADAT errors, at least from home users, is using the same tape over and over again. If you do that with a video tape in a video recorder, you eventually get sparkles or a fuzzy picture, and I imagine the audio equivalent is an increased error rate.

"I don't want to be alarmist, but because we're selling media day in, day out, we get a broad overview of the problems with the stuff. Naturally we don't get every customer calling us up to tell us that the stock they've been using has been great — we only get a comeback if there's a problem, so that's what tends to stick in your mind. And you're right that re-using old tape is a completely false economy. Enthusiasts think nothing about spending thousands of pounds on equipment, then they'll spend years cycling around the same £20-worth of tape. In fact, forget £20 — they'll come in and look at two different brands of ADAT tape, one of which costs a tenner and one of which costs, say, £11, and you can see them standing there trying to decide which one to buy!"

And this goes right back to the guy with the cassette multitracker — you should always use a brand new tape for every session, and it should be the right type of tape. But how many people do that?

"It's amazing that the thing we store the information on gets so little respect. I've been on the other side, and when you're trying to decide whether to buy five reels of 2-inch tape and you have to choose between 456 and 499, the difference in cost comes to about £50. But at the end of the day, it's your recording. It shouldn't be a question of 'what's the cheapest I can get away with?'. The question should be 'What's the best I can afford?'"

505

Summer Sizzlers! Seasons Specials! Summer Sizzlers!

| | | |
|--|--------------------------------------|---|
| Akai SG01 vintage Module | } Only £299 each including VAT | Complete system gives 48 timbre, 96 voice, 495 presets, 20MB Rom including Master Keyboard Special deal £949 |
| Akai SG01 Piano Module | | |
| Akai SG01 KGM Module | | |
| Midiman Keyman 49 note Master Keyboard, Channel Bank, Program select, 10 numerical Keys any Akai module only | £375 | Free Delivery |
| novation drumstation | £449 | inc. Free Delivery |
| novation basstation rack | £389 | inc. Free Delivery |
| novation basstation Kbd | £349 | inc. p.s.u.+ case Worldwide Export |

MIDIMAN-Interface Solutions

| | |
|---------------------------------|-----|
| Minimacman 1In 1Out | £29 |
| Macman 1In 3 Out | £39 |
| Winman 1x1 IN 1 out(PC) | £49 |
| Winman 2x2 2IN 2out(PC) | £79 |
| Portman 1in 1 out S/F interface | £79 |
| Syncman Sync Box | £99 |
| Smart Sync | £79 |

Microphones Audio-Technica

| | |
|---------------------------------|------|
| ATM 27HE Dynamic Vocal Mic | £98 |
| AT 4033 + Shock mount | £485 |
| AT 4050/CM5 Multi Pattern | £745 |
| AT Studio 6 Pack-Deal 7 Pro MCS | £839 |

Headphones

| | |
|-----------------------------------|-----|
| ATH-M40 Full Range Studiophone | £95 |
| ATH-D40 Bass Enhanced Studiophone | £95 |

AKG

| | |
|-------------------------|------|
| C3000Lge Diaphragm Cond | £299 |
| WMS50 Radio Mic | £389 |
| C414 ULS | £849 |

MONITORS

| | |
|-------------------------------|-------|
| Alesis Monitor 1's | £289 |
| Alesis Monitor 2's | £899 |
| Soundcraft Spirit Absolutions | £Call |

EX-DEMO AND USED EQUIPMENT

| | |
|------------------------------------|-------|
| Roland Juno 60+ JSQ + Stand | £349 |
| Roland D50 + Card | £399 |
| Novation BassTN Rack | £349 |
| Novation Bass Keybd | £270 |
| Yamaha V50 Workstation | £390 |
| Lexicon Alex Reverb | £245 |
| Yamaha DX21 | £120 |
| Kawai K1R + Cards | £180 |
| Samson Servo 150 Amp | £220 |
| Midiman MicroMixer 18 Chan | £179 |
| Midiman 8 Chan Multimixer | £58 |
| CAsio C23000 Synth | £160 |
| JBL Control 1 monitors | £170 |
| Ath-M7A Mon H/Phones | £89 |
| Midiman Desktop Music System (Mac) | £129 |
| Emagic Notator Logic 1.7(Mac) | £160 |
| Digitech Studio Quad Effects | £420 |
| Roland U110 + Cards | £230 |
| Samson MPL 22:4:2 Mixer | £590 |
| Tascam Port A07 4 Trk | £330 |
| Allen & Heath GS3 16 CH | £1250 |
| Ensoniq ASR10 Kbd Sampler | £1195 |
| Samson S11 M/C | £45 |
| Zimmer Racks 10U | £80 |
| Demo Racks(Var Colours) | £98 |

Behringer, DBX, LA Audio, Aphex
Compressions/Limiters/Gates/Expanders
Exciters/Equalisers
TL Audio Drawmer SPL Alesis
Too Many To List!!! Phone!!

Racks, Stands, Cases,
Patchbays, Looms, Leads
Made to your requirements,
Part Exchange your old gear
for new. Cash Deals!!!

MAIL ORDER NEXT DAY DELIVERY
(ALL MAJOR CREDIT CARDS ACCEPTED)

MUSIC SOLUTIONS

11 HYDEAN WAY SHEPHALL STEVENAGE HERTS SG2 9XH
TEL. 01438 750751
FAX 01438 750754

BLUE Professional

Retail, Design
Everyone's

SYSTEMS



the designer

THE PLAY OFF



ALESIS ADAT XT

New improved transport
10 Auto Locate points
Track Delay, Offsets

TASCAM DA88

Record up to 113minutes on one tape.
No other 8trk tape format can compete on features, build quality & reliability. Still the best and most portatfer from professionals.



Inc
Alesis £2450
ADAT XT

Why Choose BLUE?

Blue Systems is a professional audio, retail, distribution, design, service & manufacturing company setup to service the needs of record companies, management companies, artist's and recording studios. Over the years we have gained much respect from the prompt and personal service that we provide. Give us a call and see why everyone is turning "BLUE"!!

TOOLS OF THE TRADE



RØDE NT2

Mic from down under is comparable to the AKG414 at only 499 inc VAT.
Dual pressure gradient transducers.
Max SPL 145db with pad.

BLUE
SYSTEMS



MONITORING



Genelec
KRR
Dynaudio
Tannoy
Yamaha



We can supply a wide range of monitors & amps so suit needs and budgets.

DIGITAL RECORDING

Direct to Disk ~ Direct to Disk

PowerMac 7100/80 24/700CD £2150
PowerMac 7500/100 24/500CD £2075
BLUE PC P100 16/1.2GB + session8, +
882 I/O & Cubase Audio £3210
** Software **

Emagic Logic £335
Emagic Logic Audio (inc Seq) £546
Steinberg Cubase Audio £587
Steinberg Score £420
Steinberg Cubasis Audio £125

MIXING WITH THE BEST!

Yamaha O2R

Yamaha's new O2R is an eight buss fully programmable digital console with 40 input channels (24 analogue, 16 digital), 100mm motorised faders, 50 internal effects processors. All controlled on-board via the automation. With a price tag of just £6999, means you can have a fully digital studio for under £10,000.

MACKIE

The cream of the 8 buss analogue mixing consoles sub £5000. Excellent EQ, mic amps and over all noise floor with flexible aux routing. Can be expanded with input expanders which just bolt on. Call for a brochure to find out more.

Mackie 24:8 £3195.00 inc VAT
Mackie 32:8 £4100.00 inc VAT

SoundTracs

The Topaz project 8 is a very high spec desk with lots of features. in 24 or 32 formats giving up to 72 inputs on mix down. Classic SoundTracs EQ, with a very low noise floor. A must for anyone thinking of a project studio. - Automation ready!
Topaz Project 8 - 24:8 £2450 inc VAT
Topaz Project 8 - 32:8 £2999 inc VAT
FREE Meterbridges worth up to £1100

Audi Servicing & Manufacturing

turning Blue



BLUE SYSTEMS

group Plc

HOT & HAPPENING



INC VAT
£582

M U T A T O R

The Mutator is a stereo analogue filter/effects unit based on technology developed in the 60's. Quite unlike your standard reverb, delay, chorus & flanger, the FXs achievable with the Mutator are unique and quite simply defy description. Now Available with MIDI control.

Once you've tried one there's no letting go.



INC VAT
£528

The TeeBee sounds and feels like the original Roland TB303. All the original sound knobs (Tuning, Cutoff, Resonance, Filter & Decay) can be controlled from the front panel. These parameters if changed, are sent as MIDI controllers on the MIDI output. TeeBee slide can be switched on/off by means of MIDI controller. TeeBee sound is pitchwheel & Velocity sensitive. It also has an analogue input for internal filter, which can be controlled via MIDI. Roland Sync24 output PLUS 4 CV/Gate outputs, with selectable Volt/Oct or Volt/Hz & polarity switching for each output. Internal 16 MIDI channel recorder/player. Call for a brochure.



INC VAT
£689

The Lexicon LXP 15MkII. An amazing FX unit with the floorless name of Lexicon! Special Deals (limited period). Call for a brochure and see why all the top studios use Lexicon.

SpL Vitalizer - Dual Balanced XLR Version



INC VAT
£349

The Vitalizer is maybe the best in its class of enhancer / exciter processors. It utilises different process to other such products, the effect deals with the full frequency range and is substantially smoother and richer. Also includes 'Surround' effect. **SPECIAL DEAL**

Novation DrumStation



INC VAT
£449

Fed up with going through all those TR909 & 808 samplers? The exciting new DRUMSTATION is the answer to your prayers, with bangs and crashes for all occasions!! - Available now.

BLUE COCKTAILS

Fostex DMT8

8Trk Digital Recorder

Version 2

- True CD quality Digital Recording direct to harddisk.
- Jog Shuttle Wheel
- Cut & Paste editing
- 22 inputs available on mix down
- Digital I/O for recording & Mastering
- 12.5 minutes of recording as standard

Your 'Wish List Multitracker

Fostex DMT8 inc 1.7GB HD £1525 inc 24hr Delivery

Fostex DMT8 inc 2.5GB HD £1649 inc 24hr Delivery

1.7GB = 42.5Minutes 8Trk recording @44.1

2.5GB = 62.5Minutes 8Trk recording @44.1



AKAI

A new breed of Akai:

- Upgradable via SIMMS.
- Excellent AD/DA.
- Industry standard

| | |
|----------------------------|-------|
| AKAI S2000XL 10MB | £1099 |
| AKAI S3000XL 32MB | £1999 |
| AKAI S3200XL 32MB | £2799 |
| Call for Memory & Upgrades | |

Fostex D80

8Trk Digital Recorder

Taking Multitrack recording one step further! Imagine removing the tape of your digital multitrk, adding a harddisk, making the unit modular in 8, 16, 24 tracks & the result - The FOSTEX D80.

- True Multitrk recording
 - CD quality recording
 - Cut, copy, paste & move editing
- Definitely a must!



Specials: INC VAT
£1549

D80 850MB

INC VAT
£1699

D80+2.5GB

+ FREE 540MB HD Bracket - While Stocks Last

THE GENERAL STORE



INC VAT
£565

Inc Cart & Cables



INC VAT
£169

Inc Cart & Cables

5.2GB AV drive

INC VAT
£195

SyQuest EZ135

Inc Cart & Cables

Removable

SyQuest 1.3GB Removable £CALL

Now Shipping

Blue MultiDrive 1U rack mount Fits 3

£1450 Inc VAT

internal drives on 2 SCSI busses

Call for details

ALL PRICES INC VAT @ 17.5%. E&OE Prices correct at time of press - VISITORS BY APPOINTMENT ONLY

BLUE SYSTEMS

WorldWide Delivery

The Old School House - Church End - Ashdon - Saffron Walden - Essex - CB10 2HG

Tel: 01799 584095 Fax: 01799 584094 Email: bluesys@dial.pipex.com



If you'd like our resident specialist **JOHN HARRIS** to review your demo tape, just send it on cassette or DAT, with recording details and a photograph, to: **Demo Doctor, Sound On Sound, PO Box 30, St Ives, Cambridgeshire PE17 4XQ.**

Readers submitting demo tapes should note that SOS regards the inclusion of photos or artwork with demos as permission for the magazine to reproduce this material free of charge, as illustration, with any review of the accompanying tape.

DARREN CLEARE

Recording Venue: Home.

Recording Equipment: Yamaha QY10 sequencer/sound module, Yamaha TG33 sound module, Aiwa ADF410 cassette deck.

It always makes me cringe when I read letters that say "I have written over 50 tracks", with the obvious implication being that they are all great. Few people seem to exercise quality control over their work when enthusiasm for churning out songs takes over! Still, Darren's tape is very worthy of mention for his use of sound.

The first composition crosses electro/acoustic music and ambient dance, with knocking,

percussive synth, tuned kick (upfront, with a long decay), a grating and very high-pitched melody line, and good use of industrial chords as a backdrop. Sonically, it's very well put together, and I also like how the kick pattern occasionally drops beats to keep the listener awake. It's interesting that Darren doesn't use any external effects, because he's still managed to choose sounds with appropriate processing. Those of you with one sound generator will realise how difficult this actually is. The kick drum decay, for example, could be gated reverb or a long decay time and the low industrial chords sound as if they have been treated with delay, stereo panning and modulation. These chords also sit well within the track because their bandwidth has been limited to about 2kHz. So they provide body and warmth in what is an otherwise hard set of sounds.

The second composition demonstrates once again that Darren has given a lot of thought to the sounds and their overall texture. Some very low bass underpins this more ambient track and in places sounds exactly like a car engine revving up outside. It's quite a relief when this cuts to a

bell sequence. However, the bell section really goes on far too long with no variation, before cutting back to the start of the piece. It was an interesting idea to then put the two sequences together but, again, the idea is in danger of outliving its usefulness. □



NATION TO NATION



Recording Venue: Home.

Recording Equipment: Atari 1040 ST running Cubase and Creator, Tascam 424 Portastudio, Philip Rees TS1 Synchroniser, Studiomaster Reddimix 8:2 Mixer, Alesis Microverb and Midiverb II effects, Zoom 9050 effects, Philips 730 DCC recorder.

This is an interesting demo from Dave, Paul and Tim, who are collectively called Nation to Nation. The band

name is certainly reflected in the first track, a collage of different 'World' sounds. For instance, sampled tablas play a big part on the rhythm track, with strong support from four-on-the-floor kick and mixed cabasa and hi-hat. Yet there are also American Indian-style invocational vocals, the sound of children singing, which could be from Africa or Asia, some pretty heavy guitar chords, and some ethereal Indian flute. Given that the vocals have been dubbed over from cassette, the quality is pretty good, with no obvious signs of deterioration in clarity. The use of analogue synth filter zaps is also good, tying the track firmly into the ambient side of dance. If there is any criticism, it is that thematically the track is too varied and goes on a little too long.

The second song is more conventional rock/pop in style, featuring '80s-style string synth and bells with early Simple Minds guitar

playing from Tim Roberts. Heavily effected vocals, which are also EQ'd to sound megaphonic, cut in from time to time. These use quite a lot of slapback echo with a slightly longer delay time than would normally be used — probably 130ms or more — and work well, even if that particular production trick is well used.

For me, the band sound more exciting when they're experimenting with early synth textures, especially the Mellotron-style strings, and mixing this with World music percussion and guitar textures. Returning to this format for the third composition, the sound is much more 'now'. If they could only join the structured singing style of the second track to this ambient dub, they might have something. Even so, this is a well-mixed demo where the use of effects, particularly echo, help to make vocals and guitar sit well with the synthesized sounds and samples. □

WIN AMPLEX TAPES

Ampex Professional Media
by
QUANTEGY

As an incentive to send in your best demos, Quantegy, makers of Ampex tapes, are kindly providing prizes for the best demo tape

submitted each month. The lucky winner has a choice of: 20 x Ampex 472 90-minute chrome audio cassettes, 10 x Ampex 467 DAT 90-minute cassettes, 5 x 456, 457 or 499 quarter-inch open-reel tapes, or 5 x 489 44-minute SVHS DAT cassettes.

CONCERT



SYSTEMS

| | | | |
|---|---|---|--|
| AMPLIFIERSWATTS/ch 4 ohms.....Price | P7 16 channel.....£2049.00 | AUDIO TECHNICA | REV 5.....£1479.00 |
| C-AUDIO | ALLEN & HEATH | ATM 25 Kick Drum.....£139.00 | ALESIS |
| RA3001.....625.....£799.00 | GL3000 24-8-2..... | ATM63 snare etc.....£99.00 | Microverb 111.....£159.00 |
| CREST | GL2000..... | ATM 73A Best Headworn condenser available | Midiverb 1V.....£299.00 |
| V8650.....325.....£545.00 | SOUNDCRAFT | £149.00 | QuadraVerb +.....£329.00 |
| VS1100.....550.....£785.00 | Folio 8 X 20 inputs.....£499.00 | ATM1000 Vox/Instrument etc.....£59.00 | QuadraVerb 11.....£529.00 |
| VS1500.....750.....£999.00 | RACPAC 18 inputs.....£599.00 | ATM 2000 Vox/Instrument etc.....£69.00 | BEHRINGER |
| CAG.....600.....£1240.00 | Spirit 8 24/8/2.....£3299.00 | ATM 3000 Vox/Instrument etc.....£79.00 | Dualflex 11 Stereo Enhancer.....£125.00 |
| CAS.....900.....£1399.00 | Power Station.....999.00 | SHURE BETA 58.....£129.00 BETA 57.....£129.00 | Ultralex 11 Stereo Enhancer.....£210.00 |
| CROWN | Spirit Live 4/2.....PHONE | SM58.....£99.00 SM57.....£99.00 | Protector 8ch ADAT Limiter.....£250.00 |
| PT3.....760.....£849.00 | MICROPHONES | CROWN CM310 specialist vocal mic exceptionally | Autocom.....Stereo Comp.....£165.00 |
| MT2400.....800.....£1412.00 | AKG MICROMHC | loud without feedback.....£199.00 | Composer St/comp limit/exp.....£250.00 |
| VZ3600.....1655.....£2380.00 | C411PP acoustic instrument.....£99.00 | EFFECTS, COMPRESSORS + GATES | Multicom 4ch/comp/limit.....£250.00 |
| PEAVEY | C416PP piano/accordion.....£129.00 | ART | Intelligate St/gate/exp/duck.....£250.00 |
| Stockist of all Peavey Equipment. Best UK prices.....EPhone | C417PP lavalier.....£99.00 | FXR Stereo Digital Multi FX 256 presets.....£140.00 | Multigate 4ch/gate/exp.....£250.00 |
| SAMSON | C418PP drums.....£129.00 | APHEX Main Dealer. Call for competitive prices! | Autoquad 4ch/freq/gate.....£330.00 |
| Servo 500.....250.....£359.00 | C419PP wind instrument.....£129.00 | 104 Aural Exciter with Big Bottom.....£203.00 | Ultracurve.....64 bit DSP.....£550.00 |
| STUDIOMASTER | C420PP headset.....£149.00 | 105 4 ch logic assist gates.....£399.00 | LEXICON |
| 7000.....350.....£499.00 | DB1 double bass.....£199.00 | 106 4 ch Rider Compressor.....£339.00 | Alex.....£349.00 |
| 12000.....600.....£599.00 | DYNAMICS | 107 2 ch Tubessence Valve Mic | Reflex.....£399.00 |
| QSC | D112 instrument.....£175.00 | Preamplifier Excellent.....£464.00 | LXP5.....£399.00 |
| USA1300.....650.....£799.00 | D3400 instrument.....£90.00 | 108 2 ch Easyrider Compressor NEW.....£203.00 | LXP 15.....£849.00 |
| Ultra Lightweight Amp PL1.8.....650.....£1565.00 | D3500 dual capsule instrument.....£99.00 | 109 2 ch Tubessence Valve Parametric Eq.....£339.00 | PCM 80 or PCM 90.....Call for best UK prices |
| DESKS | D3600 vocal.....£199.00 | 661 Expressor Valve Comp Lim.....£648.00 | DBX |
| MACKIE | D3700 vocal.....£99.00 | DIGITECH | 262 St/Comp.....NEW.....£TBA |
| MS1202 VLZ 3 band eq NEW.....Phone for | D3800 vocal.....£149.00 | Studio Quad.....£399.00 | 266 St/Comp Gate.....£316.00 |
| MS1402 VLZ 3 band eq NEW.....Best UK | D3900 vocal.....£189.00 | Studio Vocalist.....£799.00 | 286 Vocal Processor.....£341.00 |
| SR24/4.....Prices | RADIO SYSTEMS | Vocalist 11.....£459.00 | 290 St/Reverb.....£369.00 |
| STUDIOMASTER | WMS300 simply the best | Midi Vocalist.....£359.00 | 274 Quad Gate.....£485.00 |
| Mixdown Classic 8.....£1499.00 | 8 different channels!.....£899.00 | YAMAHA | 242 Para Equaliser.....£305.00 |
| Powerhouse 300.....£749.00 | WMS100 Mk2 dynamic or condenser or instrument | SPX 990.....£729.00 | 120 xp Sub Harmonic Synth.....£296.00 |
| Powerhouse Vision 8.....£899.00 | were £1056 only a few left at.....£479.00 | SPX 1000.....£1179.00 | 172 Super Gate.....£856.00 |
| Horizon.....£1149.00 | | | 1066 Comp Lim/Gate.....£474.00 |

Unit 4d, Stag Industrial Estate, Atlantic Street, Altrincham, Cheshire

Tel: 0161 927 7700 or Fax: 0161 927 7722

We are open 10-6 Mon-Fri, Sat 10-4. Mail Order facilities available

EASY PARKING - FRIENDLY SERVICE

GIG sounds Ltd

86/88 MITCHAM LANE,
STREATHAM, LONDON SW16
TEL: 0181-769 6496 or 5681
FAX: 0181-769 9530



MON-FRI 10AM 6.30PM SAT 10AM 6.30 PM

GIG sounds Ltd

195 London Road,
CROYDON, SURREY CR0 2RJ
TEL: 0181 686 4546
Fax: 0181 681 5775



The Original The Best
Mail Order - Part Exchange

Call with Confidence
All prices include VAT

KEYBOARDS & MODULES

| | |
|---------------------------------|-------|
| Akai S3000 XL Sampler..... | £1750 |
| Akai S2000 Sampler..... | £950 |
| Akai SG01 V Vintage module..... | £299 |
| Akai SG01 KGM Module..... | £299 |
| Fatar 610 Plus Mother..... | £329 |
| FATAR 900 mother..... | £599 |
| Ensoniq MR Rack..... | £1299 |
| Ensoniq SQ1 Workstation..... | £675 |
| Korg X5 Performance Key..... | £665 |
| Korg X3 Workstation..... | £999 |
| Korg Trinity..... | £2300 |
| Korg Prophecy..... | £999 |
| Kawai K II..... | £999 |
| Kurzweil PC88..... | £2000 |
| Roland JV35..... | £660 |
| Roland XP50..... | £1370 |
| Roland XP80..... | £1799 |
| Roland A30..... | £365 |
| Roland JV 1080Mod..... | £1070 |
| Emu Morpheus..... | £1040 |
| Yamaha SY35..... | £540 |
| Yamaha SY85..... | £850 |
| Yamaha MU80..... | £650 |
| Alesis DM5 Drum Mod..... | £499 |
| Alesis D4 Drum Mod..... | £290 |

FX PROCESSORS

| | |
|------------------------------|------|
| Alesis Microverb 3..... | £189 |
| Alesis Microverb 4..... | £289 |
| Alesis Microverb 4..... | £389 |
| Alesis Q2..... | £629 |
| Alesis 3630 compressor..... | £270 |
| Digitech TSR6..... | £229 |
| Digitech TSR12..... | £389 |
| Digitech TSR24..... | £790 |
| Behringer intelligate..... | £325 |
| LA Audio 4x4 compressor..... | £349 |
| Drawmer Dual gate s/h..... | £200 |
| Dynacord DLS223 s/h..... | £500 |

RECORDING

| | |
|----------------------------|-------|
| Roland VS880..... | £1499 |
| Fostex DMT8..... | £1499 |
| Soundcape..... | £2499 |
| Tascam 464 4 track..... | £539 |
| Tascam 424 4 track..... | £499 |
| Tascam Porta Q7..... | £349 |
| Tascam Porta Q3..... | £199 |
| Fostex XR3..... | £249 |
| Fostex XR5..... | £379 |
| Fostex XR7..... | £499 |
| Yamaha MT50..... | £399 |
| Philips DCC Recorders..... | £249 |
| Tascam DA20..... | £799 |

SOUNDSCAPE - SIMPLY THE BEST

The best selling hard disk recorder is available as either a single unit, multiple modules or as a complete running PC package



Free 1 gig drive with every soundscape sold

GIG sounds have enjoyed great success with Soundscape and are pleased to say that the time stretch pitch shift option is now available from us for £150 only Call Gareth for Demo.

Soundscape

P.A. SYSTEMS

| | |
|--|-------|
| Peavey HISYS 1XT each..... | £325 |
| Peavey HISYS 2XT each..... | £349 |
| Peavey Eurosis 3 each..... | £169 |
| Peavey Eurosis 2 each..... | £144 |
| Peavey Eurosis 1PM each..... | £280 |
| EV SX200..... | Phone |
| Martin speakers/FBT and a huge range of microphones for PA/Recording | |

LONDONS BIGGEST music store

FAST MAIL ORDER SERVICE ON STOCK ITEMS

FREEPHONE STREATHAM

0500 123 616

Finance. Written details on request

Overnight Delivery

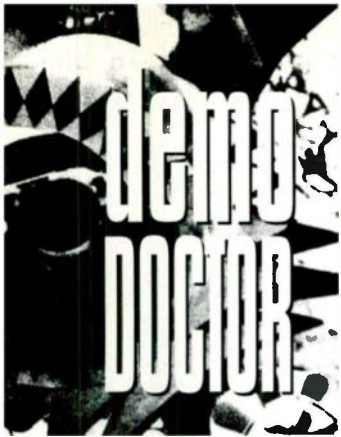
Streatham Tel: 0181 769 6496

Croydon Tel: 0181 686 4546



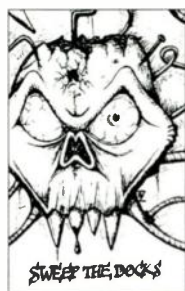
HUGE RANGE OF ACCESSORIES. SOUND ADVICE IN PA - RECORDING - KEYBOARDS ETC.

SECONDHAND GOODS BOUGHT AND SOLD. GUITAR & HI TECH SERVICE DEPARTMENTS



MORE UNFRIENDLY PEOPLE IN MY

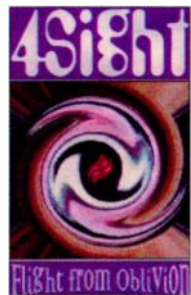
BACKYARD: This offering is described as 'post-industrial indie thrash', with heavy distortion on the guitar riffs



through a backing which sounds vaguely classical in places — brash and full of pomp. The spun-in female vocal (Tori Amos) works well on a track

as paranoid as the name of the band. The second song is more straightforward thrash at an incredibly fast pace, complete with screaming vocal, but what elevates it above the rest is the 10-second interlude of choir vocal when the guitar drops out. This is really quite an unexpected twist that throws preconceptions out of the window and ties in nicely with the female vocal on track 1. Perhaps the band should label themselves 'thinking man's post-industrial indie thrash'!

4 SIGHT: Horrendous, tabloid-worthy punning occasionally clogs the pages of *SOS* too! Still, if it was good



enough for Shakespeare... Meanwhile, back at the demo, Graham and Leon have put together some rather good trancey dance music. Pulsing downward

filter sweeps provide the hypnosis, low sub-bass throbs gently on beats one, two and a half, three and four, and it could be leaning towards the ambient in places, with the addition of girly choir synth. Yet the synthesized filter sweep twanging and drum programming keep it just that bit uptight. At 21 minutes, 34 seconds there has to be some variation, and the lads keep the vibe going. Good festival fare for those hot summer nights.

ANDREW LLOYD: Andrew's produced a solid demo with definite soul leanings. He sings and plays drums rather well too, taking the unusual step of recording kit drums to a cassette multitracker. Drums and synth were recorded in stereo, then bass and percussion were added live as the whole lot was routed to the remaining stereo tracks. Vocals and extra keyboards finish off the production. The Mackie 1202 mixer must have come in useful, and its famous mic

inputs have come up trumps on the drum sound, which is one of the best real kit sounds I've heard off a cassette-based analogue multitrack. If there's any criticism, it's that the bass on the first track is a bit woolly and the snare could have done with a little reverb. However, as 'rough sketches' go, these recordings are better than many we receive on larger recording formats — which only goes to show that there's no substitute for good musicianship and a musical ear when it comes to recording at home.

WILD BUNCH: Swedish media student Jorma Linna has quite rightly taken advantage of the fine equipment in his college studio. His resulting demo is excellently recorded Status Quo-style boogie, even though Jorma regards his mixes as 'kind of rough'. For me, they've captured the energy and slightly messy edge that this kind of music requires. All the sounds are punchy, courtesy of some decent compressors; in your face, the result of good mixing and good choice of reverb balance; and big, due to the use of good sound sources and thoughtful choice of microphone positions. I suppose a little more time spent on the vocal effects would have been useful, maybe using some slapback delay instead of the small room reverb. There's also a little hiss noticeable between tracks, but nothing a decent gate or digital editor couldn't handle.

OBSCURE STATE OF MIND: This outfit relies heavily on synthesized backing to produce music which has the feel of the Pet Shop Boys without the humour. Perhaps this is why Darren and Chris have had no success with record companies so far, but more likely it's to do with the singing. Here I have to concur (for a change) with the A&R at EMI, who felt that the vocals were a bit weak. However, I didn't think that the lyrics were also lacking. The actual recording is OK, with a slightly dull vocal sound that has been treated with too much reverb. Strings are used as a chordal wash behind



every song, and some substitute needs to be found to stop different songs sounding too similar. It doesn't hurt to drop chords out altogether in the verses, for example, and just use them to make the chorus pick up. For

instance, on the third song, 'Children of the Universe', the percussion I could hear in the background at one point could have been used on the verses instead and brought to the front of the mix.

JONATHAN OVIN: Jonathan worries about the quality of his demo because it was recorded direct to a normal cassette and not to DAT.



However, with all-digital sound sources triggered from an Atari/Cubase setup, he's really got nothing to worry about on this score. Considering that he was also only 14 when he was working on this instrumental project at school, the recording shows a good grasp of sound and balance. He's more successful when he attempts something structured, like the second track, 'Yellow' — a homage to heroes, perhaps? Choice of sounds on this short track is good and I especially liked the obviously synthesized kick drum.

THE BARTOKS: This band have been making all the right moves, playing support to Skunk Anansie and for various A&R people, yet they're still looking for a good album and tour



deal. Tracks 1 and 2 of the tape, recorded at Ca Va studios in Glasgow, sound excellent, and it's difficult to understand why a band as good as this

can't get any financial backing in Britain. The songs are strong, the singing and playing excellent, and they've captured the production sound of the moment in both vocals and guitar style. Wah guitar and moving octaves instead of chording all the time works brilliantly. In comparison, the tracks recorded on a Portastudio sound compromised sonically, but the songs still come across well. One criticism I will make is that the addition of keyboards detracts from the skeletal attack of the band. It may be that the sounds chosen — mainly strings and piano — date the production, bringing The Bartoks dangerously close to the worst of '80s rock. ☹

▶ CONTRIBUTION



Recording Venue: Home.
Recording Equipment: Fostex X28H cassette multitracker, Aiwa DAT recorder, Roland Sound Canvas synth module, Emu Emax 1 sampler, Yamaha V50 synth, Alesis Quadraverb GT effects, Tandy Microphone.

This is a moody, eloquent demo from Kent-based band Contribution — but talk about getting your money's worth from an effects unit! The first song uses the Quadraverb GT to good effect on nearly everything, from phased and echoed vocals to industrial bass clang and, of course, guitar. I'm pleased to report that the wet/dry mix is well handled, so that the effects never completely take over. The result is a homogenous mix coloured by the idiosyncrasies of the Quadraverb — slight sibilance on the vocals and a grainy reverb quality. This suits the guitar in particular, creating a two-note power-chord drone which underpins the track in a most un-guitar-like fashion.

The second song employs mood swings between exposed strings and voice, and full backing. The backbeat drags a little when it arrives and I think a more modern rhythmic feel should have been used — possibly some kind of breakbeat. The last song, 'Insular Life', uses a better kit sound from the Roland Sound Canvas, with some bite provided by a higher-pitched snare.

Overall, this is a promising demo. The songs come across with their well-delivered angst vocals, and the style is early '80s synth pop with lashings of rock guitar. However, the use of effects gives the tape a more quirky feel. ☹

KORG

| | |
|--------------------|-------|
| Trinity | £1999 |
| Trinity Plus | £2499 |
| 01/Wpro | £1899 |
| 05R/W | £399 |
| X5DR | £575 |
| X3 | £999 |

YAMAHA

| | |
|------------------------|------|
| QS300 | £999 |
| W7 inc Exp Board | £999 |
| MU5 | £199 |
| Hello Music (PC) | £199 |

ROLAND

| | |
|------------|-------|
| XP10 | £499 |
| XP50 | £1250 |

MACKIE

| | |
|--------------|------|
| CR1202 | £299 |
| CR1604 | £849 |

KURZWEIL

| | |
|--------------|-------|
| PC88 | £1899 |
| PC88mx | £2395 |

KURZWEIL

K2000R £2500

including:
SMP1-Sample Option,
P/RAM, ROM1-Orchestral Sound
Block,ROM2-Contemporary
Sound Block
Usual combined price
over £4000

K2500X £3150

88-note weighted
action keyboard Endless
sound creation possibilities.
Powerful sequencing and effects.
Fully upgradable by K2000 style
options and software upgrades.
RRP over £3800

USED GEAR

| | |
|--|------|
| Boss CS10 Micro-Monitor | £100 |
| Casio CSM1 Module | £50 |
| E-Mu ProFormance Piano Module | £150 |
| Korg KMX8 Mixer | £130 |
| Korg T3 Workstation | £800 |
| Kurzweil HX1000 Horn Expander | £450 |
| Roland R5 Drum Machine | £150 |
| Simmons MIDI Mixer | £150 |
| YamahaSY77 Workstation | £700 |

CARDS CLEARANCE SALE

| Description | Use with | Card Type | Price |
|-----------------------------|------------|------------------------|------------|
| ROLAND... | | | |
| M256D | D50 | RAM-256k | £10 |
| PN-D50-00 | D50 | ROM-Factory Set | £10 |
| 50's & 60's(SC2) | E-Series | ROM-Style | £20 |
| 70's & 80's(SC1) | E-Series | ROM-Style | £20 |
| Around The World(SC1) | E-Series | ROM-Style | £20 |
| Country(SC1) | E-Series | ROM-Style | £20 |
| Country(SC2) | E-Series | ROM-Style | £20 |
| Latin(SC1) | E-Series | ROM-Style | £20 |
| Latin(SC2) | E-Series | ROM-Style | £20 |
| Guitar & Keyboard Mallet | U110 R8 | ROM-Voice ROM-Voice | £20 £20 |
| YAMAHA... | | | |
| Voice & Rhythm Set | DSR2000 | ROM-Various | £10 |
| Chorus 1 | HS8 | ROM-AWM | £20 |
| Harmonicord | HS8 | ROM-AWM | £20 |
| FVPO1-Best Selections 1 | HS-Series | ROM-Voice | £20 |
| FVPO2-Best Selections 2 | HS-Series | ROM-Voice | £20 |
| RP1 | MC-Series | RAM | £10 |
| RP3 | HS-Series | RAM-8k | £10 |
| RP5 | HS-Series | RAM-32k | £10 |
| RAM4 | HS-Series | RAM | £5 |
| MCD32 | RX5 | RAM | £10 |
| Synth Goes Live | SY22 | RAM-32k | £10 |
| KORG... | SY55 | ROM-Voice | £10 |
| Akira | M1 | Program | £20 |
| Bun May | M1 | Program | £20 |
| World Omnibus | M1 | Program | £20 |
| Brass | M1 | PCM/Program | £30 |
| Piano | M1 | PCM/Program | £30 |
| Various(Unfilled) | M1 | PCM/Program | £30 |
| MCR03 | M1 | RAM-128k | £30 |
| DSC01 | DS8 | ROM-Voice | £5 |
| Performance 2 | WaveStn | Program | £10 |
| Drums | M3 | PCM/Program | £10 |
| OTHERS... | | | |
| Ensoniq MC32 | SQ1/SQ2 | RAM-32k | £20 |
| Kawai DC8 | R80 | RAM-8k | £10 |
| Kawai DC16 | K1/K1m | RAM-16k | £10 |
| Technics SYP5 | KN800 | RAM | £10 |

Cards listed may be new or used although all are sold with a minimum warranty of three months - Call for details. Postage is not included in the price of cards listed

Tel: (0161) 627 0614 Fax: (0161) 620 0614



OUR TOP PERFORMERS

The MIDI Patch Bay - 10 MIDI Devices Interconnected

This unique product has been actively solving musicians' MIDI interconnection problems for years. Drawing its power from MIDI, the bay features full and half normalising and a very fast MIDI THRU.

Direct Injection Units

8 channel Professional Unit: A mains powered, 1U rack mount unit, it gives a line level balanced output on XLR connectors (rear panel). Variable gain inputs (guitars, keyboards, line level, speakers), are on the front panel. Suitable for studio and stage. After a recent recording, Dave Maughan, the session's producer said "These are the best keyboard DI's I've come across".

Interface

A modular system offering interfacing between -10dBV and +4dBm, balanced or unbalanced, **Interface** will connect low level multi-track tape recorders to line level desks and outboard equipment

HeadMaster Headphone Monitoring Systems

A complete headphone monitoring solution from the simple to the sophisticated. Let us supply you with a system to match your requirements and your budget.

Digital Processing & Direct to Disk Recording Systems for PC and Mac.

We are now the Northern dealer for Spectra's **Audio Prisma Digital Audio Workstation**, Call us now to arrange your demonstration. We can also offer your ideal fully configured system (including computer) using Spectra's **Audio Prisma**, Pro Tools, Session 8, Soundscape or Card D, with GRM Tools and the Composers Desktop Project.

Easy, reliable interconnection of MIDI devices. Transparent gain to optimum levels. Crystal clear, adaptable and loud headphone monitoring systems. All at the right price. These were our targets. We have reached them. Optimise your studio, or stage rig with DACS' Top Performers.

For further information on these and our full range of products and services please call us on +44 (0) 191 438 5585, fax us on +44 (0) 191 438 6967, or write to us at Stonebills, Shields Road, Pelau, GATESHEAD, Tyne and Wear, NE10 0HW, ENGLAND

OTHER PRODUCTS
We specialise in custom built items to your specification. Because of this specialisation our prices are highly competitive. All the above can be customised and we also make microphone pre-amplifiers, audio and digital audio switching and routing, ring modulators.

brief encounters

CONCISE REVIEWS OF ESSENTIAL ACCESSORIES

PROSONIX 48-WAY BANTAM PATCHBAY

While professional studios invariably make use of compact bantam patchbays, most home studios are forced to go the quarter-inch jack patchbay route, mainly because of cost. Admittedly, there's a certain convenience aspect to quarter-inch jacks, because of the predominance of the jack as an instrument connector, but in my experience, the normalising contacts on most budget jack bays become intermittent after a few months. While bantams are not immune to intermittency problems, the design of the connectors makes them less vulnerable to dust, and most of the professional systems are easily disassembled for cleaning.

Those who'd prefer to use bantams may be interested in the Prosonix bantam patchbay, which provides 24 pairs of TRS sockets in

just half a unit of rack space, and which costs around the same as a decent budget jack patchbay. Each pair of sockets comprises a Neutrik NJ3TT/2 dual-socket assembly mounted on its own circuit board, with a 4-way DIP switch. Because the connector assembly is fully enclosed, the only way in for contamination is via the jack holes. Should cleaning become necessary, a plastic cover can be prised off, revealing the gold-plated contacts. The boards themselves simply slot into the metalwork, so you don't need any tools at all to take the patchbay apart.

Normalising is handled by three of the four DIP switches (the fourth is redundant), allowing you to normalise the tip and ring separately, and also to isolate the input and

output grounds if required. When normalised, the sockets follow the semi-normalised convention, whereby the top row (outputs) can be used to provide a feed without breaking the signal flow, but inserting a jack into the bottom row breaks the contact. The rear connections on the review model were hard-wired, which entails soldering your cable harness directly to the patchbay, while this may seem tedious, it actually saves a lot of money in connectors and is a lot more reliable. However, Prosonix are planning models with connectors on the back, including the 'D' connector used by some manufacturers (Tascam and Fostex, for example).

Bantam patch cables are traditionally very expensive compared to quarter-inch jacks, but Prosonix



have sourced a range of low-cost cables from Piranha, who use Neutrik plugs and cable, both in a choice of colours, to produce a balanced patch lead for under £10.

Prosonix may be a new name in the patchbay market, but the guys behind the company were founding members of the original P&R, a name which is well known to project studio owners, so it's not surprising that they're applying their talents to bringing prices down. This is the first of their products I've seen, but there seem to be few compromises, and it's obvious that a lot of thought has gone into simplifying the design to reduce manufacturing cost. Inevitably, panel space is in short supply for labelling, though standard sticky labels apparently fit, but even so, you'll need to use some fairly cryptic abbreviations. My own instinct would be to use bantam patchbays for insert points, aux send/returns and outboard gear, but to retain standard jacks for any line inputs likely to be used for DI'ing instruments. That way you avoid having to make or buy adaptor leads. Other than that, bantams clearly have the advantage when it comes to saving space and keeping the contacts clean. *Paul White*

MUSIC HOUSE DATA PRODUCTS POWERMASTER RACKMAC C2 APPLE RACKMOUNT KIT

The idea of making computers rackmounting for studio use is not a new one, but the necessary hardware tends to be expensive. After session musician (and SOS reader) Whyman Baker casually commented on the astronomical price of existing rack kits, Powermaster decided to produce their



own version, which is now on sale at a more realistic price of £199.

In these days of RAM raiding there's a security benefit from rackmounting your computer, especially if you use security rackmount screws such as the ones available from Studiospares. Designed to fit the Centris/Quadra 650 and 7100-style models (other versions are being developed), Powermaster's contribution to the protection racket is effectively a satin-black sheet steel shell, enclosing the whole computer aside from the front panel and the connector area of the rear panel. The parts of the

shell are held together by simple bolts, and once the hardware is mounted in a rack cabinet, there's no way the computer can be removed without first taking the hardware back out of the rack.

Of course, security isn't the main idea behind computer rackmounting — it also helps keep things tidy by moving the clutter off your desk and into your rack. If you're taking a computer on the road, rackmounting has obvious practical benefits, though to prevent transit damage, you should always use the type of rack system with an inner cabinet shockmounted inside a larger cabinet using foam or springs. This consideration applies to any shock-sensitive audio equipment, not just computers.

Having assembled and used the Powermaster Mac racking system, I'm impressed by how solidly it is constructed and how much neater my system looks because of it. Now I have my Mac and my rackmount hard drives in the same box, which keeps SCSI cabling runs short and cuts down on exposed wiring. This is a simple concept, but the implementation is well designed and well engineered at less than half the cost of the previous competition. *Paul White*

£ £199 inc VAT.

A Syco, Kimberley Road, London NW6 7SF.

T 0171 624 6000.

F 0171 372 6370.

£ Bantam patchbay £89.95;

Patch cables £9.95 each.

Prices include VAT and UK p&p.

A Prosonix, PO Box 32, Hailsham, East Sussex BN27 3XT.

T 01323 848808.

F 01323 441185.

Don't tell anyone.
They'll all want one.

NOT TRUE.

People don't buy what they don't know.

- FR
- DIRECT MAIL
- ADVERTISING
- EXHIBITIONS
- BROCHURES
- INCENTIVES
- POINT OF SALE
- CORPORATE ID



Call Gez Kahan on 01628 487820.

SIMPLY THE BEST

FOR DIGITAL AUDIO, A.V. & SAMPLER RECORDING, ACCESS & STORAGE PRODUCTS

the POWER MASTER GENESIS



The PowerMaster Genesis is an essential tool for all Sampler's and Computer based recording systems. Designed to carry out every digital write, access and storage requirement possible the Genesis is equipped to house both fixed internal and front loading removable mediums.



the RACKMAC C2
A secure 19" 4u rack housing for the Apple Macintosh 7100, 650 Quadra & Centris computer. The C2 design offers full accessibility to the CD Rom, Floppy drive, reset switches & all rear connections.

For information phone, fax or return this slip to:

Music House Data Product
Music House, 3 Heath Road, Breachwood Green, Nr Hitchin, Herts. SG4 8PL, ENGLAND.
TEL: 44 (01438) 833222
FAX: 44 (01438) 833051

Name: _____
Address: _____
Country: _____
Post code: _____
Telephone: _____
Fax: _____



BABEL SYSTEMS



Hammersmith, London W12 8PA

0181 749 8222

Call for the latest finance deals and our best cash prices.

- | | |
|---|---|
| <p>KURZWEIL <i>Music System</i> K2500 FROM £127 PER MONTH</p> | <p>SOUNDTRACS TOPAZ FROM £116 PER MONTH</p> |
| <p>YAMAHA PRO MIX 01 FROM £71 PER MONTH</p> | <p>ALESIS ADAT XT FROM £119 PER MONTH</p> |
| <p>E-MU E 64 FROM £97 PER MONTH</p> | <p><i>Soundscape</i> SSH DR1 FROM £109 PER MONTH</p> |
| <p>KORG TRINITY FROM £114 PER MONTH</p> | <p>Fostex DMT8 FROM £67 PER MONTH</p> |
| <p>E-MU ESI 32 FROM £44 PER MONTH</p> | <p>E-MU E4K FROM £129 PER MONTH</p> |
| <p>BEHRINGER Eurodesk FROM £99 PER MONTH</p> | <p>WALDORF PULSE FROM £33 PER MONTH</p> |
| <p>Roland JV 1080 FROM £52 PER MONTH</p> | <p>Roland VS 880 FROM £80 PER MONTH</p> |
| <p>AKAI S3000 XL FROM £76 PER MONTH</p> | <p>AKAI DR8 FROM £128 PER MONTH</p> |

Have the equipment you want now for an affordable monthly payment. No Deposit Mail order finance delivered to your door nationwide or call round and see us in person.

If the item you need is not listed then please call us for a quote.

FREE UK DELIVERY

Finance subject to status, written quotations on request.

VAT included in all prices.

<http://www.bogo.co.uk/babel/babelhomepage.html>

brief encounters

NUREALITY VIVID 3D STEREO ENHANCEMENT SYSTEM

► There have been many inventions aimed at producing a wider or deeper stereo image from conventional stereo speakers, but few can be as cost-effective as the Nureality Vivid 3D. The aim of the Vivid 3D is to treat the stereo signal in such a way that the reflected components of the sound appear to come from outside the loudspeakers, just as they would in a real-life ambient environment.

This tiny box takes its power from an external adaptor and connects to your system via two phonos and a stereo mini-jack. The connectors hint at the Vivid 3D's target market, which would appear to be computer games and stereo TV. There are no real user controls other than volume: you can simply select 'SRS' to process a stereo signal, '3DM' to add a sense of width to mono sounds, or bypass the effect altogether.

With the box in circuit, switching from bypass to SRS mode causes a noticeable increase in level, which the manufacturers say is due to how the circuitry rebuilds off-axis information. When we hear something off-axis, it is different in both timbre and level to something heard on-axis, due to the human hearing system's frequency response. Microphones don't behave in the same way,



and SRS mode aims to correct this by splitting the signal into middle and side components (rather like the output from an MS mic pair), applying the necessary tonal correction to the side signal and then recombining the two. The subjective effect is to reduce the impression that the soundstage exists only between the two speakers; sounds in the centre of the mix are little affected, but sounds panned hard left or right seem to be diffused around the room.

An email message to the manufacturer answered all my technical queries and also revealed that the process has been granted a number of patents. Using my phase meter, I detected the use of out-of-phase components (a usual ingredient in stereo widening) in the 3D setting used to widen mono sources — but it's claimed that the SRS system adds no additional phase shift.

Because of the tonal coloration introduced by reconstructing off-axis sounds, I'd be reluctant to treat complete studio mixes with this process, but it is useful to pick out odd bits of percussion, little synth details and, of course, effects. Feeding a stereo reverb back through the Vivid 3D produced a noticeably more spacious sound.

Because SRS doesn't use delay or phase shift, it should have better mono compatibility than some other stereo enhancement processes, but by the same token, the results may not be as dramatic as, say, RSS or QSound. However, it is a useful and very valid effect based on sound psychoacoustic principles that can be exploited in the studio to make mixes more interesting. The signal path is reasonably quiet, and apart from the oddball 'games' connectors, it's no trouble to use. Other models are available which offer the user more control, and there's also talk of a rackmount unit in the near future. At the current price, however, this is one area of space exploration that most people can afford.
Paul White

£ Vivid £D £39.95 inc VAT, plus £3.50 p&p; Vivid 3D Plus (which adds a Centre mode for enhancing central imaging) £49.95.

A Bull & Bear Ltd, Macmillan House, Kensington High Street, London W8 4SG.

T 0171 795 6977.

F 0171 938 4944.

ROLAND MC50 OPERATIONS HANDBOOK LEVEL 1

The Roland MC50 is one of the best hardware sequencers ever made, but it can be a bit puzzling for the first-time sequencer user. One reviewer dubbed it "Darth Vader's Filofax", and an air of mystery has surrounded it ever since. This book, written by Bobby Maestas and published by Alexander Publishing, proves that the MC50 is actually as flexible as many software sequencers, provided you make the effort to grasp all its basic functions before you dive into the murky depths of the editing pages.



The book is set out like an instruction manual, with everything explained clearly and with a minimum of fuss. There are 21 chapters, beginning with an excellent section on how to connect the MC50 to several keyboards, and ending with the delights of tape and MIDI sync. I was grateful to see a decent explanation of the 'Event Copy' procedure on the MC50, something which never fails to catch me out. The MIDI sync chapter is also extremely useful, because many hardware sequencer fans have a drum machine in their setup. This partly makes up for the lack of information about rhythm programming and advanced editing. Anyone seeking advice on these aspects of the MC50 will find everything they need in the Operations Handbook Level 2.

Few people would put an instruction book on their list of priorities, but MC50 users will appreciate the straightforward style of this one. It shows that with patience and a little understanding, an MC50 will be your friend for life. *Richard Clews*

£ £22.99 (no VAT payable).

A Sounds OK, 10 Frimley Grove Gardens, Frimley, Camberley, Surrey, GU16 5JX.

T 01276 22946.

Phone the Mail Order Hotline Now! on 0161 474 7626

MICROPHONES

GROOVE TUBES

ADD WARMTH NOW!



Groove Tubes valve mics are available from stock.

Special Offer! We have a limited number of the latest single-output PS1's available. Total list price with PS1 £779

MD1 Condenser Cardioid
MD2 large gold sputtered diaphragm
MDQ as above with variable pattern

from £899!
for MD1 + PS2a & Cable

SAMPLERS

AKAI

FREE ZIP Drive with S3000XL/3200XL at RRP. Plus 4 x 100Mb cards.

FREE ZIPs!

10M 72 pin SIMMs £199!

AKAI S2000 RRP £999
AKAI S3000XL £1799
AKAI S3200XL £3499
Phone for our best prices on all AKAI samplers.

EMU

SPECIAL EMU E64 Turbo includes 500Mb internal hard drive, 8Mb RAM and 240Mb library. All this for only **£2595!**

EMU EV 88 + SCSI + ZIP Drive + Library... £115!
OMEGA Zip Drive £199 including 1 x 100Mb + 1 x 200Mb

OUTBOARD REVERB / FX

£699!

| | | |
|---|------|------|
| LEXICON LXP-15 MkII Special Offer: £699 RRP | Axis | |
| ALESIS Midverb 4 | 399 | 329 |
| ALESIS Microverb 4 | 299 | 249 |
| ALESIS Quadverb 2 | 649 | 525 |
| DIGITECH Midi Vocalist | 449 | 399 |
| DIGITECH Vocalist 2 | 549 | 479 |
| DIGITECH Studio Vocalist | 999 | 869 |
| DIGITECH TSR-6 | 299 | 259 |
| DIGITECH Studio Quad | 499 | 399 |
| ENSONIQ DP2 | 649 | 549 |
| LEXICON Aux | 389 | 349 |
| LEXICON Reflex | 469 | 389 |
| LEXICON LXP-15 MkII Special Purchase | 979 | 699 |
| LEXICON PCM-80 | 213 | 1979 |
| LEXICON PCM-90 | 2589 | POA |
| MUTRONIC Mutator - remarkable! | 581 | 499 |

DYNAMICS & EQUALISER

BEHRINGER MDX2100 Composer
Special Offer price: NOW Even lower! £229

| | | |
|--|-----|-----|
| APHEX 106 Easydrum™ 4 chn compressor | 399 | 339 |
| APHEX 107 ubessence™ Mic preamp | 546 | 459 |
| BEHRINGER MDX2100 Composer | 299 | 229 |
| BEHRINGER MX1200™ Autocom | 199 | 169 |
| BEHRINGER XR2000™ Intelligent | 299 | 239 |
| BEHRINGER Autoquad 4 x gates + Filters | 399 | 349 |
| BEHRINGER Multi-gate 4 x gates | 285 | 249 |
| BEHRINGER SNR1000 denoiser 2ch | 199 | 149 |
| BEHRINGER SNR2000 multiband denoiser | 299 | 259 |
| BEHRINGER Multicom 4ch | 399 | 259 |
| BEHRINGER Suppressor | 250 | 219 |
| BEHRINGER UltraCurve | 548 | POA |
| DBX 1066 dual compressor/limiter/gate | 527 | 429 |
| GROOVE TUBES CL1 valve comp | 989 | 939 |
| GROOVE TUBES EQ1 5 band valve EQ | 529 | 499 |

| | | |
|---|------|-----|
| GROOVE TUBES CL15 valve compressor | nt | |
| JOEMEER VC3 Pro Channel | 299 | 289 |
| LA AUDIO 4C 4 x comps | 464 | 399 |
| LA AUDIO 4G 4 x comps | 464 | 399 |
| TL AUDIO Valve Compressor | 1173 | 999 |
| TL AUDIO 2 channel Periode Valve preamp | 1051 | 985 |
| TL AUDIO 2 channel 4 Band Valve EQ | 821 | 699 |
| TL AUDIO PA2 2 channel valve preamp DI | 405 | 345 |
| TL AUDIO Indigo series valve dynamics | 703 | 599 |
| SAMSON E 62 2x31 band graphic EQ | 329 | 279 |
| BEHRINGER PEQ2000 parametric EQ | 250 | 219 |

ENHANCERS

SPL Stereo Vitalizer
Astounding Value @ £339 each!

| | | |
|----------------------------------|-----|-----|
| APHEX104 Type C2 Aural Exciter™ | 299 | 249 |
| BEHRINGER Dualflex II | 145 | 119 |
| BEHRINGER Ultraflex II | 242 | 199 |
| BEHRINGER Bassflex | 250 | 219 |
| BEHRINGER Edison | 250 | 219 |
| SPL Stereo Vitalizer (see above) | 469 | 339 |

WE WILL BEAT ANY GENUINE PRICE QUOTED BY A LTD IF THE DEALER IS WITHIN A 30 MILE RADIUS OF AXIS AUDIO SYSTEMS.

MONITORS

| | |
|----------------------------------|------|
| ALESIS Monitor Ones | £299 |
| DYNAUDIO BM10's | £599 |
| FAR Studio Monitors - full range | POA |
| KRK K-ROK's | £399 |
| SOUNDCRAFT Absolute 2's | £249 |
| TANNOY System 6 NFM II | £379 |

RECORDING

HARD DISK RECORDING

AKAI DR8



ONLY £2999 INCLUDING MIXTAB!

DR16 IN STOCK! £POA

Packages with Hard Drives...
AKAI DR16 + Monost 1 Gb JAZ Drive... £3079
AKAI DR16 + 1.0Gb AV Gb drive... £2799
AKAI DR16 + 2.0Gb 'Sorrocode' AV drive... £4999

AKAI DR8-w

New version Looks identical to the old one but now with 250 vinyl tracks, true 4x2 stereo bouncing and it's white! List price: £1099

FOSTEX D-80



£1499! INCL 840Mb IDE

£1399 Limited Offer!

The FOSTEX D-80 is the rack mount version of the DMT-8, offering all the convenience of cut, copy & paste editing along with the familiarity of tape transport controls and operation. Up to 1.7Gb IDE drives may be used simply by slotting one in to the receptacle beneath the removable wired remote front panel.

Free DDP 1 optical output + optical cable with every D-80
0% Interest on selected items. Written details available.

PROFESSIONAL AUDIO EQUIPMENT SALES & SERVICE

Tons of equipment available for sale. See our website for details.

List price of the superb ADAT XT is £3199 inc VAT. A limited quantity of ex-demo units available at £2265 incl! (Shhl ex-demo could be new!)

ADAT XT now in stock - 100% compatible with V4-much faster transport and superior tape handling in general. List price £3199. Our price SEE ABOVE

MASTERING

DAT RECORDERS

| | |
|-------------------------|-------|
| TASCAM DA20 EPOA Remote | £1199 |
| TASCAM DA30 MkII Remote | £799 |
| PANASONIC SV3800 Remote | £1166 |
| FOSTEX D5 Remote | £799 |

One of the above machines we sell at £699 - can you guess which one?

PHILIPS Digital mastering
DCC 730 - £249
DCC 170 - £249

CD RECORDERS

| | |
|-----------------|-------|
| MARANTZ CDR | £2099 |
| MARANTZ CDR-615 | £2099 |

AMPLIFIERS

| | |
|-----------------------------|------|
| ALESIS RA100 65wpc | £299 |
| ALESIS Matica 500 250wpc | £399 |
| ALESIS Matica 900 4x0 wpc | £599 |
| SAMSON Servo 150 50wpc | £299 |
| SAMSON Servo 240 80wpc | £399 |
| OMNIPHONICS Footprint 50wpc | £299 |

MIXERS

If it's a new recording console that you're after, you've come in the right place! Axis Audio are THE people for mixing consoles. (And we usually have a very fine selection of used ones too!)



| | | |
|--------------------------------|------|------|
| MACKIE 8 Bus 16 8 15 | 2875 | Call |
| MACKIE 8 Bus 24 8 24 | 3550 | Call |
| MACKIE 8 Bus 32 8 32 | 4355 | Call |
| MACKIE Side Car™ | 269 | Call |
| MACKIE 24 chan extender | 2699 | Call |
| MACKIE CR1604VLZ 16:2:2 | 949 | POA |
| MACKIE MS1402 VLZ 14:2 mixer | 549 | POA |
| MACKIE 1202VLZ | 399 | POA |
| MACKIE Stands for 8 bus series | 269 | Call |
| MACKIE SR24-4 24:4 | 1495 | Call |
| MACKIE SR32-4 32:4 | 1995 | Call |

SPIRIT by Soundcraft



Prices from: £1X99! IN STOCK!

SPIRIT STUDIO 16:8 £1999 IN STOCK!
SPIRIT STUDIO 24:8 £1999 IN STOCK!
SPIRIT Follo SX £599

BEHRINGER RRP
EURODESK MX8000 2199
EUROACK MX2642 748
EUROACK MX2802 648

FOSTEX / BEHRINGER Package Deal



3 x FOSTEX D80's + EURODESK
Save £5995 including VAT

ALLEN & HEATH

GS3-V VCA FADER AUTOMATED

GS3-V 16:8:16 £1999
GS3-V 24:8:24 £2899

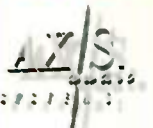
SOUNDTRACS

The Topaz from Soundtracs has just undergone a facelift and now looks much more the part. • One or two ex-demo consoles may be available - please call!
SOUNDTRACS Topaz Project 8 24:8 2937 2350
SOUNDTRACS Topaz Project 8 32:8 3877 CALL!

STUDIOMASTER P7

And introducing the **Midstream Classic 8** 16 or 24 inputs with midi mulling and a meter bridge as standard - simply astounding value and a perfect partner to an adat or similar.

| | | |
|-----------------------|------|------|
| STUDIOMASTER P7 16:8 | 2584 | 1599 |
| STUDIOMASTER P7 24:8 | 3284 | 2099 |
| P7 8 channel extender | 969 | POA |



PROFESSIONAL AUDIO EQUIPMENT SALES & SERVICING

FAX

on (0161) 474 7619 for an instant quote

PHONE ORDER

EXPORT VAT FREE

INTEREST FREE CREDIT (Written details on request)

Installation Service

MAIL ORDER

TECH SUPPORT

VISA

MasterCard

Amex

Discover

The DEAL... 3 x FOSTEX D-80's PLUS the totally fantastic BEHRINGER MX8000 24:8 Eurodesk

Including looms and sync cables. Each D80 has a 850Mb drive fitted providing 18 minutes of record time across all 24 tracks. Larger drives may be fitted, POA.

Free Optical Drive

• Built-in sequencer (no computer required)
• 4 x stereo aux returns
• 8 bus sends
• EO on monitors etc

SAMSON AUDIO
NPL1502 RRP: £299 Axis: £249

Ex-demo Topaz 24:8 +MB RRP: £1899 one only!

Midi 8 RRP: #199 Axis: #179

If you want to use our speedy mail order service but wish to pay cash, then you can! All you do is pay in to any branch of the Nat West bank with our account details - please phone for further instructions (0161) 474 7626

Phone the Sales Order Hotline Now! on 0161 474 7626

0161 474 7626

All prices shown are subject to change without notice. All prices include VAT. E&OE

Hours of Business Mon-Fri 9:30 - 6:00 Sat 11:00 - 2:00

Sounds of the '80

ENSONIQ SQ80 WORKSTATION SYNTH

On its release in the late '80s, the SQ80 had to slug it out with Roland's D50 and Korg's M1, and didn't come out on top, at least as far as sales were concerned. STEVE HOWELL takes a look at an early and underrated workstation that still has a lot to offer.

Back in 1986, before this eminent publication had even reached its first birthday, and was a mere 80 pages rather than the bookshelf-battering size it is today, Ensoniq released the ESQ1 synthesizer [and *SOS* reviewed it too, in the August '86 issue — Ed]. This was a revolutionary instrument, integrating advanced sequencing and sophisticated synthesis years before the word 'workstation' had been applied to keyboards. For the first time, it was possible to create complete multitimbral compositions from one box (albeit with only 8-voice polyphony). Ensoniq also deserve credit as being the first company to introduce the polyphonic, multitimbral mode of sequencing

we all now take for granted. Prior to this, whilst some synths offered multitrack or multitimbral operation, each part was strictly monophonic. On the ESQ1, each part was dynamically polyphonic, stealing voices as and when they were needed and/or available. It was to be a couple of years before Korg, with the M1, were to launch an instrument to rival it.

Costing around £1100 when released, the ESQ1 was out there on its own for a while, with its wide range of unique sounds and multitimbral sequencer. But then came the Roland D50, crammed with chifty noises, pan pipes, bowy strings and other, less describable sounds, all aided and abetted by a simple reverb/chorus combination. The D50 took the world by storm, and soon its ability to combine sampled attacks with sustained loops was regarded as *the* way to create new sounds.

ENTER THE '80

Ensoniq countered with the SQ80 (reviewed *SOS* February '88); basically an ESQ1 with extra waveforms, polyphonic aftertouch, an expanded sequencer section, and a floppy disk drive for saving and loading sounds and sequences. A serious rival to the D50, surely? Sadly, 'twas not to be. The reason is something of a mystery, because not only did the SQ80 offer a clean combination of sequencing and sound creation, its synthesis capabilities were also considerably more advanced than anything else around at the

time. Just look at the specifications: three oscillators per voice, each with their own Digitally Controlled Amplifiers (DCAs), feed into a resonant low-pass filter and out to a stereo output amplifier. To complete the impressive lineup, three freely-assignable multi-wave Low Frequency Oscillators (LFOs) and no less than four freely-assignable multi-stage Envelope Generators are also available. On top of this, there's a single-triggering monophonic mode, portamento, oscillator sync, ring mod, and more. It's the SQ80's modulation capabilities, however, that are so appealing to hardcore programmers. Virtually any controller can be routed to any module but, rather than using patch cords, as on modular synths, it's all done in software. At the time, the only thing that compared was the keyboardless, sequencerless 6-voice Oberheim Xpander, at considerably higher cost.

DIGITAL SYNTHS DO IT WITH NUMBERS

Unlike the Xpander, however, the SQ80 is not analogue. Ensoniq achieved what they did at such remarkable cost by doing the bulk of the signal generation and processing digitally. The traditional Voltage Controlled Oscillators (VCOs) found on analogue synths were replaced with digital oscillators reading out samples from wave memory, rather than generating the real thing — more waves to play with, but ultimately less beefy, largely due to the waves' restricted bandwidth. The



Production Station K2500

Options:

- DMTi - Digital Multitrack Interface with 8 channels of digital output.
- KDFX - 8 Buss Digital Effects.
- Sampling with "Sample While Play" - Gives Digital & Optical i/o.
- ROM Soundblocks - Stereo Piano, Orchestral & Contemporary.
- Program Memory Expansion.
- KB-3 - Drawbar Tonewheel Organ Synthesis Mode.
- Live Mode - Process any signal with V.A.S.T.
- Full MIDI Controller Capabilities inc 8 Sliders, 2 Ribbon Controllers, Footswitches, Pedals & Breath Controller - All Assignable.
- User Upgradable Software (Flash ROM).
- 32 Track Full-Function Sequencer.
- Advanced File Management System.
- Advanced Sample Processing - Reads Roland, Akai & Ensoniq Libraries & Import/Export of Type "O" Std MIDI Files, AIFF & WAVE Files.
- Up to 128MB Sample RAM (30 Pin SIMMS).

Specifications:

- 88 note Fully-Weighted Keyboard, 76 note Semi-Weighted Keyboard & Rack Mount Versions.
- True 48 note Polyphony (192 Oscillators)
- Kurzweil's V.A.S.T. Processing Power.
- 16 Part Multi-timbral.
- Up to 28MB of Spectacular Kurzweil Sound ROM.
- 8 drum channels for 32 layer programs.
- 8 Analogue Outputs & Insert Points Plus Stereo Mix Outs.
- Dual SCSI Ports.



PRODUCTION POWER:-

K2500 - Kurzweil's most powerful sampling synthesizer ever. The spectacular new Soundset, Advanced Synthesis, Sampling, Sequencing & Stunning Effects enable you to take a project from concept to completion without ever leaving the K2500 environment.

SEIZE THE POWER!

The Washburn (UK) Limited Group of Companies
Amor Way, Letchworth, Herts, England SG6 1UG
Telephone: 01462 - 482466. Fax: 01462 - 482997

K2500

KURZWEIL
Music Systems
Pure Inspiration

▶ filter, however, is a true analogue 4-pole (24dB/Octave) job, which nevertheless lacks the 'weily' of its analogue counterparts, probably due to the fact that it is being fed with 'bandwidth-challenged' sampled waves.

That's not to say that the SQ80 is sonically weak, however, because it is far from that. It can produce strong, rich pads and strings, and fair simulations of most analogue synth sounds. It's not so hot on truly woofer-wobbling analogue basses. With a mere 256Kb of wave memory to read from (synths today measure their wave ROM in Megabytes!), long multisamples, of pulse width modulation, for example, are not possible, so any sonic movement has to be created with oscillator detune and/or modulation. This is easy enough, given the three oscillators and the sheer number of LFOs and modulation possibilities.

The wealth of digital waveforms on offer allows you to create distinctive metallic and other 'non-analogue' noises, and also gives the SQ80 an appealing 'PPG-esque' quality. The ability to combine analogue and digital waves across the three oscillators also enables a wide range of hybrid sounds to be created.

Strings, piano, bass, electric piano, organ, reed and other such waves are on offer too. These latter waves are single-cycle multisamples, not the detailed multisamples of modern ROM-based synths. They're capable of giving a good impersonation of the sounds they represent, but if you use them as interesting waves in their own right, you won't go far wrong. Some of the SQ80's voice-like and breathy waves can be used to create totally unique vocal sounds not readily found elsewhere, and in an attempt to capture some of the D50 market, Ensoniq included some short, one-shot clicks, bumps, thumps, plucks, clicks, and scrapes to use as attack transients. Some of these waves don't transpose terrifically well, being rather aliased at the lower reaches of the keyboard, but most are useful additions to the sonic armoury, and for some sounds, that digital grunge can really add character. The SQ80 does have some drum sounds, but these are hardly worth mentioning, being of low bandwidth and quality. I class them as virtually unusable except, possibly, as attack transients for percussive sounds.

FUN IN THE WAVES

The SQ80 came supplied with a floppy disk containing hundreds of sounds, and many of these are very usable. They also form a good starting point for experimentation.

Editing or creating a sound on the SQ80 is a doddle. On the right of the panel, rather cleverly laid out to represent the signal path of a voice, is a set of keys which give direct access to sonic building blocks such as Oscillators, LFOs, Envelopes, and Filter. To edit a sound, simply press the key for the one you want to affect and use the 10 keys around the custom fluorescent display for direct access to each parameter. To tweak the cutoff of a string sound, for example, press 'Filter', then 'Freq', and waggle the Data Entry slider. Simple, quick and effective. Each module's parameters are available on one page, so there are no awkward cursor movements or page scrolling.

The three oscillators, their associated DCAs, and the filter each have two modulation inputs,

for a wide range of modulation and performance possibilities.

Oscillator sync between the first two oscillators was a welcome innovation for a synth with all-digital sound generation, and although the results may not be as impressive as a MemoryMoog, many interesting and unique sounds can be created with the wealth of waveforms available on the SQ80. The ability to use any controller to modulate Oscillator 2 adds much flexibility to the range of sync sweep sounds available. A missed opportunity, perhaps, is the SQ80's inability to cross-modulate one oscillator's frequency with the output of another oscillator within the flexible modulation matrix; I can only assume that this is a hardware limitation rather than an oversight on the part of Ensoniq's designers.

The fact that each oscillator has its own DCA allows quite fine control over the oscillators' level, and the DCA for Oscillator 2 serves a dual purpose, in that it can act as a ring modulator, with one input derived from Oscillator 1 and the other from Oscillator 2. Some interesting clangorous noises can be coaxied out of it, especially when you consider the number of waveforms you can use to cross-modulate each other.

The three DCAs are summed to the input of the analogue low-pass filter and can be set to overload the filter slightly. As mentioned, this is an analogue 4-pole resonant filter, but controlled from the SQ80's digital control sources. Cutoff frequency and resonance controls are provided, as is a dedicated keyboard tracking control. Like the oscillators, it has two controller inputs which allow different control sources to be combined, mixed and inverted, for fairly flexible tonal control.

The filter passes to a final stereo output DCA, where you have control over the output level and pan position of the sound. The pan section has one control input, and any of the controllers may be used to move the sound between the left and right outputs, enabling the introduction of a great deal of stereo movement into a sound.

The three LFOs are identical, each offering triangle, square, sawtooth and noise waveforms (sadly, there is no random 'sample and hold' wave available and the noise waveform does not make a good substitute). The output level of the LFOs can be affected by any of the controllers — so you can 'shape' the LFO modulation via one of the spare envelope generators. Using real-time MIDI controllers, you can control LFO depth via velocity, keyboard position, aftertouch, an

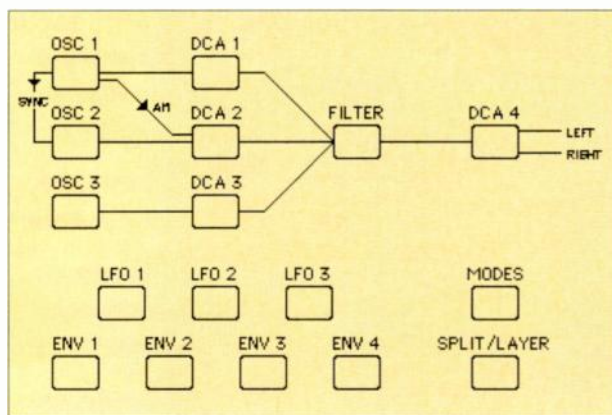


Figure 1: A schematic of the controls on the top right panel of the SQ80. The layout of the top section also helps you to grasp the programming architecture of the synth.

and each mod input may have any of the 15 available controllers assigned to it — including the three LFOs, the four envelope generators, and real-time MIDI controllers such as the wheels, aftertouch, velocity, keyboard, and an (optional) pedal controller, plus a definable external MIDI controller (such as breath, for example). These can be mixed and inverted

JACK OF ALL TRADES?

The SQ80 can produce a wide range of serious analogue, digital and FM-ish hybrids, with some attempt at S+S. It can do lush and dreamy pads, unusual vocal textures, spiky basses and clavs, excellent bells and other metallic sounds. It's very adept at organ sounds and no slouch with electric pianos. Modern, fashionable sounds can be created on it but, perhaps more interestingly, so can

unique sounds not so readily available on other synths — with an SQ80, you might stand out from the musical crowd a little. The sounds won't stand direct comparison with a true analogue (but neither will more contemporary digital synths), and its digital sounds won't worry a PPG or FM synth too much. However, that said, you can get surprisingly close on all counts.



► optional pedal, or mod wheel. The LFOs are extremely functional and to have three of them is certainly a treat, but if I have any criticisms of them, it would be the inability to modulate the LFOs' rate from the matrix — a curious omission.

The four envelopes are also identical, with four rates and four levels. You can control the envelopes' output level and attack time using velocity. A key-scaling function allows you to make keyboard position control release times — higher pitches create shorter release times, as on many acoustic sounds such as piano, guitar or tuned percussion.

In an attempt to simulate some kind of reverb on the SQ80, Ensoniq introduced a function which involves a second release stage kicking in — instead of going to zero immediately, the second release reaches a low level and then fades to zero at a fixed rate. The effect can be bypassed if you wish. The idea may sound a bit strange, but it's not ineffective on some sounds — onboard DSP processing it most certainly isn't, however.

Last in the voice programming department is a 'global' page, where you may, amongst other functions, switch on a single-triggering playback mode that emulates analogue monosynths, plus a glide function that works in both polyphonic and monophonic modes.

SUPER SEQUENCING

So the SQ80 is capable of producing a very wide range of warm analogue sounds and strong digital sounds, plus many, many more besides, with sophisticated but easy control. On top of all this, however, is a nifty little sequencer which, whilst not rivalling software-based sequencers, is extremely functional, on

this, so it's advisable to switch it off except for sounds that really need it). Sequences are held in memory even when the SQ80 is powered down (though you can save both sequences and sounds to the onboard floppy drive if you wish), so you can come back to your work with no tedious loading time. Tracks can be mixed, muted, merged, quantised, transposed, deleted and otherwise manipulated after the event, and sequences can be copied, appended and deleted. Also provided is a simple autolocator, and all these functions are accessed very simply using the nine Sequencer keys to the right of the display.

Recording a sequence is very easy, as is overdubbing. You can select a loop playback mode so that when an overdub is complete, the sequence will loop round and immediately play back what you've just recorded. When the overdub is looping, though, you can't then continue to overdub more data into that track as on, say, Akai's MPC60/3000, which is a shame.

After recording, you can edit a sequence at the track level, including erasing, copying and merging tracks. Quantising is available, with a resolution of quarter notes to 32nd-note triplets. Generally, this works very well and will tidy up sloppy timing quite adequately without adverse effects on the performance. Like many of the sequencer's edit functions, quantising is non-destructive, and the SQ80 allows you to audition the original, unquantised sequence, or the quantised one before deciding whether to keep the new sequence or return to the original.

No step-time input is possible, but you can edit in step-time. Finished sequences can be chained together in any order you wish in

than many other so-called 'workstation' sequencers I have used, even recently. In fact, my only criticism of the sequencer is its lack of step-time recording facilities, for those occasions when really tight, solid sequenced riffs and arpeggios are required. The SQ80's ability to sequence both internal sounds and/or external modules with Program Change and MIDI volume control allows it to be quite a sophisticated central controller in a budget studio, if you can live with the 8-track limitation.

EXPRESS YOURSELF

As a master controller, the SQ80's keyboard has a curious feel to it. It certainly plays well enough, even offering a choice of velocity curves to suit your playing technique, but the polyphonic aftertouch mechanism, with a separate sensor underneath each key, makes it quite 'clattery' and noisy to play. The action is fine, though, and the polyphonic aftertouch is great fun and very expressive on sounds such as strings, brass, vocals and pads — if you dig into just one note, only that note is affected by whatever modulation type (amplitude or vibrato, for example), you've assigned to aftertouch.

WELL-KEPT SECRET

The SQ80 has much to offer: extremely versatile synthesis which can produce a wide range of very good, usable sounds, in the analogue, digital and, to an extent, S+S styles; a more than capable sequencer, especially with a few external modules hooked up to overcome the synth's limited polyphony; and an eminently playable keyboard, one of the few to feature polyphonic aftertouch. The integration of sounds, sequencing and control of external MIDI gear is very thorough, everything is well laid out, and the direct access to sounds, synth parameters, sequencer tracks and edit functions makes operation very quick. It's a truly underrated instrument.

But it's precisely because the SQ80 has been overlooked that I bring it to your attention now, because it has very little resale value at the moment and is a bargain waiting to be had. I recently bought one for £299 and that was from a shop! I think I did very well, however, and you should expect to pay a bit more than that — around £400 would be about right for an SQ80 in good condition. This would give you an excellent sound source and a versatile little sequencer that could form the centre of a budget home studio.

Buy one for its sound-making potential. Buy one because it is so easy to use. Buy one for its cracking little sequencer and the fact that you can control a whole bunch of external modules from it so easily. Buy one because it's cheap and you get a hell of a lot for the money!



RELATIVE VALUES: THE ESQ1

If you're on an even tighter budget, check out the Ensoniq ESQ1, which is functionally identical in terms of sound making but has only 32 waveforms instead of 75. The sequencer is also more

restricted, offering only 30 sequences and 10 songs. If you're looking at an ESQ1, make sure it has the memory expansion installed — without it, there's a measly 2,500 note limit, which the

expansion board takes to a more sensible 10,000 notes. The ESQ1 has a velocity-sensitive keyboard with a nice action but no aftertouch at all, it has no disk drive, and off-line storage of sounds and sequences is only possible using cartridges or cassette dump.

a par with many hardware sequencers, and more versatile than one would at first imagine.

The sequencer features eight polyphonic tracks, all easily accessed in sequencer mode from keys around the display. Each track can control internal and/or external sound sources, and can send out Program Changes and MIDI volume. Up to 60 sequences of any length and time signature can be chained together, drum machine style, into 20 songs. There's a maximum note capacity of 20,000 notes (although aftertouch, particularly the SQ80's polyphonic aftertouch, can consume a lot of

Song mode, and since the tempo of each sequence is retained as steps change, some degree of tempo variation is possible within a Song, even though gradual *rallentandos* and the like are not possible within the sequences themselves.

Finally, the sequencer can be synced to MIDI clock (with Song Position Pointers — SPP), and there is also a simple FSK tape sync code (without SPP) for syncing the SQ80 to tape.

All in all, then, the sequencer is more than functional. It offers quite a simple approach to building up sequences and songs and is better



EURODESK
 BEHRINGER
 YOUR EAR IS THE JUDGE

- ▲ Professional 48/24 channel in-line Mixing Console
- ▲ Additional 24 input Mix B channels, all with 68 EQ, Level, Pan & Mute
- ▲ Quietest console in its class. Ultra low noise throughout at -92dB (24 channel @ unity gain)
- ▲ Extremely high headroom - offering you more dynamics than any other conventional mixer
- ▲ Ultra-low noise discrete Mic Pre-Amps with +40V phantom power
- ▲ No Clap: British OJ2 from famous studio Plasmo; dedicated 4 band EQ with 2 parametric Mid bands offering an extremely wide sweep range from 50Hz - 20kHz
- ▲ State-of-the-art ICs and highest quality components ensure crystal clear audio quality and unmatchable noise figures
- ▲ High quality Panasonic stacked rotary pot controls ensuring long life and durability
- ▲ Tiltless high precision laser trimmed Panasonic Taper Faders with extra resistance, compatible with three brand in massive consoles
- ▲ Up to 8 assignable Aux Send buses, all fully switchable pre-fader
- ▲ 8 Stereo Aux Returns with multiple routing options
- ▲ 8 Subgroups simultaneously feed 24 Multitrack Outputs
- ▲ +12dB gain available on all Aux Sends and Returns
- ▲ Balanced Tape In/Outs: switchable for +18dBV or +4dBu operation
- ▲ Fully extensive Channel, Group and Mix Insert Points
- ▲ Separate Solo In Place and PFL buses available
- ▲ 27K Tape Monitoring with multiple routing options
- ▲ 2 separate Headphone Mixes and Talkback facility with multiple routing options
- ▲ Expander Port with universal link facility to any other console
- ▲ 400W rugged design Power Supply ensuring superior transient response and reliability
- ▲ DMC sockets allow the connection of goose-neck lamps. You can still see it at 2am!
- ▲ Meter Bridge available: unusual but unbelievably low price
- ▲ The next generation - Cylexmix Mix/Fader Automation System, and its coming soon!
- Int. +48V RMS figures measured with RMS meter 22Hz - 22kHz filter

"The Eurodesk means a signal routing flexibility and audio signal quality never before achieved"
 Keyboard Magazine - May '95

£2199 inc VAT

Let the world hear how you feel

The 48/24 Dual Input EURODESK[®] MX8000 from Behringer

Creating your finest Mix is a long and time consuming business. The priority is to have a creative edge - a sparkle of vision that allows the best of your ideas to reach the final take, and as the heart of your music is your console, it must work alongside, feeling the Mix like you do. Between thought and expression lies the new 48/24 EURODESK from Behringer, leaving you free to expand on what you are best at - creative ideas, producing your finest mix - **to let the world hear how you feel!**

For full colour brochure contact: **0 1 4 8 3 4 5 8 8 7 7**

Distributed in the UK by: **BEHRINGER (UK) Ltd**
 St. Vincent House 59 Woodbridge Road
 Guildford Surrey GU1 4RF

Tel: +44 (0) 1483 45 88 77
 Fax: +44 (0) 1483 45 88 22



Your ear is the judge

Distributed in Germany by: **BEHRINGER GmbH**
 Otto-Brenner-Str. 4
 D-47877 Willich

Tel: +49 (0) 21 54/ 42 85 21
 Fax: +49 (0) 21 54/ 42 85 23

KEYBOARDS

AKAI MX73 mother keyboard, flightcase, pedals, £350, Oberheim Matrix 6R, £400, Roland MC50 hardware sequencer, £300; Boss half rack chorus, £100. Quality gear, top nick. ☎ 01923 824684

AKAI PM76 piano card, suitable for Akai keyboard, less than a year old, £150 ono. ☎ David 0115 9233489 (Nottingham)

AKAI S601V vintage synth module, unused, £250, Rickenbacker 330 6-string, Fireglow, pristine, £550. Swap both for sampler ☎ Stewart 0161 301 5264

ALESIS Q56 synth, brand new, £700. ☎ Malcolm 01256 766558

BIG BRIAR ETHERWAVE Theremin, with fully-featured MIDI/CV interface, £800 ono. ☎ Adam 01747 820536

BIT 99 programmable analogue synth, MIDI, excellent condition, £250 ono, TOA D3 stereo 4-channel rack mixer, £200 ono. ☎ 0161 766 3956

BOSS DS330, £180; Boss SE50, £200; Novation Bass Station keyboard, £200; Realistic Mixer, £50. Replay 16, £40, Roland JX8P, £280. The lot, £850. ☎ 01244 375183 after 6pm (Chester)

BOYD BABY GRAND, excellent condition, superb tone and cabinet, good home wanted, must be heard, £2500. ☎ Dave 01702 351468

CASIO CZ1000 digital synth with MIDI, good condition with manual, £120 ono or swap for drum machine. ☎ Phil 0113 2305036 (Leeds)

CASIO VZ1, 5-octave, pressure and velocity sensitive keyboard, 3 controllers, £250; Yamaha TX812 sound module, £150; Panasonic LF3000E external 128Mb Magneto-optical drive, £300 plus disks. ☎ 01222 549350

CASIO VZ1, manual, box, iPD synth, 3 controllers, aftertouch, 16-note poly, 8-part multi, £295; Evolution EVS1, boxed, £70. ☎ Cliff 0191 422 4753

CASIO VZ10M synth module, vgc, £180 ono. ☎ John 0141 423 1106

CASIO VZ8M module with editor/librarian (Atrari) vgc, £100; Phonic graphic equaliser, hardly used, £100. ☎ John 01225 723513 (Bath)

CHEETAH MKSV MIDI controller keyboard, 61 keys, pitch and mod wheels, £100. ☎ Ryan 01782 836698

CHROMA POLARIS analogue synthesizer by Fender, circa 1984. Fully programmable with onboard sequencer plus MIDI. Good working order with handbook and data tape, £395 ono. ☎ 01329 238522 (Hampshire)

CLAVIA NORD LEAD rack, full MIDI control of all leads and buttons, man at bank forces sale. Friendly offers please. ☎ 0171 351 5639

CRUMAN TRILOGY early 80s polysynth, organ, synth sections, oscillator sync, good condition, £225. ☎ Richard 01305 782554

after 6.30pm

DAEWOO DIGITAL PIANO, EU20, 18 months old, full-size 88-note, dual/split keyboard, play/recording demonstration tunes, many styles and voices available, piano stool, extended warranty. £900. ☎ 01480 301519

EMU MORPHEUS, powerful multitrack synth, 193 filters, morphing, boxed, manual, £700. ☎ Sean 0171 221 7274

EMU PROTEUS 1XR, 384 sounds, boxed, manual, home use, immaculate, £360. ☎ 01234 824168 (Bedford)

EMU PROTEUS 1 pop/rock module, as new with manuals, £325; Yamaha TX812, as new, £165. ☎ Ian 01702 616961

EMU PROTEUS sound module, immaculate, £225; Roland D10 synth, home use only, £225, or both for £400. ☎ Mike 01734 892933 (Wokingham)

EMU ES1 32, £760; Roland JD800, £985; Korg Wavestation, £400; Kawai K1, £220; K4R, £325; Rhodes 660, same as Roland U20, £295; Korg O3AW, £375. ☎ 01261 832898

EMU ORBIT, Alesis Q56, BBE Sonic Maximizer, Mackie 1202. ☎ Ian 01207 509866

EMU PROTEUS FX sound module, as new, boxed, less than a year old, £275. ☎ Richard 0171 250 3325

EMU PROTEUS 1, £399; Goldstar GMK49 controller keyboard, £120; Roland CA30 arranger, £79; Bars & Pipes Amiga software, £29, all with manuals, prices negotiable. ☎

01233 655078 (Belfast)

ENSONIQ SQR rack synth, built-in effects and drum sounds, £250; Roland D10 classic rack synth, multiple outputs, effects, drums, £190, or both for £400. ☎ Paul 0956 432965

ENSONIQ SQR+, 21-voice, will swap with £150 for SQ2 or with £250 for SQ2 32-voice. ☎ Norman 0191 456 1055, 9-5

ENSONIQ SQR+, good condition, multitrack, built-in effects, £325 ono or swap for Bass Station rack. ☎ 01547 840287

ENSONIQ TS12, weighted keyboard, onboard sequencer, effects, immaculate, boxed with manuals, flightcase, £1600. ☎ 01939 232489

FATAR STUDIO 90+ weighted 88-note master keyboard, pristine, home use only, £400. ☎ 01865 750878

FATAR STUDIO 90+, excellent condition, £400. Flightcase for above (new), £60; flightcase for U20, £45. ☎ Brad 01633 865758 eyes/weekends

GEM S2 workstation, £800; Roland D50, £400. ☎ Rory 0171 223 9817

GEM S2 TURBO workstation, boxed, as new, flightcase, sounds, excellent condition, £1200 ono. ☎ 01939 232489

GEM S3 TURBO, 76 Keys, great sounds, disk drive, load and saves standard MIDI files, comes with flightcase, library and manuals, vgc, £775 ono. ☎ Steve 01159 274354 (Nottingham)

KAWAI K1R digital synth module, excellent condition, boxed, manuals, PSU. Ideal first synth, £140 ono. ☎ Matthew 01522 523203

KAWAI K4R module, 8 outputs, powerful filters, good S+5 and pseudo-analogue sounds, vgc, boxed with manuals, £295; Chase Bit 99 MIDI analogue polysynth, Oberheim circuitry, manuals and flightcase, £200. ☎ Chris 0161 860 5795

KAWAI K5, 16-part multitrack, multi-dimensional synth, excellent condition with manual, £360 ono. ☎ Carl 0161 737 1110

KORG DW8000, manual, data cassette, £390; Yamaha F801 plus editor, £90. ☎ 01724 711629

KORG i2, immaculate condition, never been gigged, still boxed, £1600. ☎ Ken 01733 579338 (Peterborough)

KORG i3 workstation/keyboard with £379 memory upgrade, £100 flightcase and several disks with new patterns, etc, all yours for £1350. ☎ Drew 01273 700108 (Brighton)

KORG i3, absolutely immaculate condition, virtually unused since purchased, boxed, all manuals, selling to buy Trinity, £1375, no offers. ☎ Graham 01606 882881 after 6pm

KORG M1, vgc, manual, footpedal and flightcase, £500 ono. ☎ Paul 01332 662990

KORG M1 with original box and manual, excellent condition, inc PCM 2-card set and 'Getting The Most Of' video, £675 ono; Yamaha CBX-T3 GM sound module £100. ☎ Bruce 01705 511489 (Hants)

KORG M1 with original box and manual, excellent condition, seven Valhalla ROM CDs, £650 ono; Yamaha A100 power amp, boxed, as new £120. ☎ 01673 862568 (Lincs)

KORG M1, perfect condition, with flightcase, £550; Yamaha SY77 synth, mint, £690. ☎ Roland U20, mint, £375; Roland R70 Drum machine, £295. ☎ George 01243 376905

KORG M1 with two cards, video manual, good condition, £565; Replay 16 Atari sampler, £65; Steinberg Pro 12 Manual, £5. ☎ Mark 01772 888341

KORG M1 plus 3-tier stand, boxed, manual's, perfect condition, classic, £600 ono or swap for effects plus 4-track. ☎ Seamus 01208 813534

KORG M1, immaculate, extra sound card, boxed, £550. ☎ John 01623 751928 (Notts)

KORG M1, home use only, excellent condition, still boxed with all manuals, £600. ☎ JJ 01909 485262

KORG M1E, vgc, £450; Roland MVS1, mint condition, box, manual, £350; Korg DW6000, vgc, £175; Elka Soloist 505, £50. ☎ 0116 2835455

KORG MONOPOLY, needs tuning, otherwise good cond, 4 VCOs, sync, arpeggiator, £250 ono; Roland SH1000 plus flightcase, £100. ☎ Tim 01904 633626

KORG 01W/FD with extra sounds and General MIDI disk, £750, boxed with manuals, for quick sale. ☎ 01457 872301 after 4.30pm

KORG 01W/FD, 32-note poly, box, manual, upgrade, RAM & ROM card, extra sounds on disks, excellent cond. ☎ 01235 768466

KORG 01W/FD, Dance PCM card, box, manual, sounds, home use, immaculate, £1000. ☎ Lee 01142 2669073

KORG 01W/FD, excellent condition, full flightcase, £1000. ☎ Daniel 01962 865736

KORG 01W/FD, mint, never gigged, boxed, manuals, 16-track sequencer, disk drive built in, £900; Alesis SR16 Drum machine, £120; Roland U220 sound module, 2 cards, £250; RD1000, £1200. Andy Wyatt, Umanak, Lower St. Timmestone, Nr. Deal, Kent CT14 0HZ

KORG 01RW module, classic sounds, 16-part multi, 32-note poly, sequencing and multi-fx, excellent condition with box and manual. ☎ 01939 232489

KORG 05R/W module, £340; Roland A30 mother keyboard with mains adaptor, £240; Emu Performance 1+, £175. All in immaculate condition, boxed with manuals. ☎ Ben 01480 468124 (Cambs)

KORG POLY 6, unused last four years, original box and instruction manual, good condition, never used on the road, £210 ono. ☎ 01803 211140

KORG POLY 61, totally analogue synth, 6-voice, two oscillators, 24dB/Oct filters, five octaves, arpeggiator and trigger inputs,

READER ADS

HOW TO BOOK YOUR READER ADS

Fill in the form below, up to 28 words (one per box) and post to:

Reader Ads, Sound On Sound, Media House, Burrel Road, St Ives, Cambs PE17 4LE
Your ad will appear in the next available issue after receipt.

PLEASE NOTE

We are inundated with Reader Ads, and whilst we endeavour to publish ads in the next available edition of the magazine, space restrictions mean that this is not always possible, and there may be a one or two month delay. Therefore, if you wish to guarantee that your advert appears in the next available issue, we suggest that you call our Hotline on 01480 461786 and use your credit card to book yourself a Classified Lineage advert — your ad will then appear in the Classified Ad pages, and not in Reader Ads. This costs a mere 80 pence per word (inc. VAT), and the minimum number of words is 12 (£9.60 in total).

☎ 01480 461244 (office hours) ☎ 01480 461786 (24 hr answerphone)



Fill in the form below
(up to 28 words, one per box) and send to:
Reader Ads, Sound On Sound, Media House, Burrel Road, St Ives, Cambs PE17 4LE.

WARNING: Always check when buying secondhand music software that you are not buying a pirate copy; ensure that all disks and manuals are included. We reserve the right to refuse or amend ads, especially if we believe they offer pirated software, pirated MIDI files or pirated sounds. We accept no responsibility for typographical errors or losses arising from the use of this service. Trade Ads will not be accepted.

PLEASE NOTE

Please indicate which one classification you would like your ad to appear in.

- KEYBOARDS
- SAMPLERS
- DRUM MACHINES
- WANTED
- MISCELLANEOUS
- SEQUENCERS
- RECORDING
- PERSONNEL
- COMPUTERS/SOFTWARE

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

NAME _____ ADDRESS _____

Reader Ads will only be accepted if the name and address details are completed.

THE ASK

ALCHEMEA NOW OFFERS ALL GRADUATES AN EXTRA 12 WEEKS OF PRACTICAL STUDIO TIME AND GUARANTEED JOB INTERVIEWS

CAN YOU HANDLE

DAILY LECTURES PRESENTED BY DEDICATED AND COMMITTED PROFESSIONALS

MINIMUM OF 30 HRS PER WEEK OF HANDS-ON INDIVIDUAL PRACTICAL TIME

FOR A FREE PROSPECTUS AND A PERSONAL TOUR OF THE COLLEGE TELEPHONE THE ALCHEMEA INFORMATION LINE (24 HRS) ON 0171 3594035, FAX ON 0171 3594027 OR WRITE YOUR NAME, ADDRESS AND TELEPHONE NUMBER ANYWHERE ON THIS PAGE, TEAR IT OUT, FOLD IT AND SEND IT TO US.

OUR STUDIES AT ALCHEMEA

CAN YOU KEEP UP WITH TIGHT DEADLINES FOR THEORY ASSIGNMENTS AND PRACTICAL PROJECT

CAN YOU COMMIT YOURSELF TO

ABOVE ALL THIS, DO YOU HAVE IT IN YOU TO STUDY HARD TO PASS ALL EXAMS THROUGHOUT

FOR A FREE PROSPECTUS AND A PERSONAL TOUR OF THE COLLEGE TELEPHONE THE ALCHEMEA INFORMATION LINE (24 HRS) ON 0171 3594035, FAX ON 0171 3594027 OR WRITE YOUR NAME, ADDRESS AND TELEPHONE NUMBER ANYWHERE ON THIS PAGE, TEAR IT OUT, FOLD IT AND SEND IT TO US.

ALCHEMEA

The London College of Professional
Audio Engineering and Production
2-18 Britannia Row
The Angel
Islington
London N1 8QH

ROLAND D10 multitimbral synth, excellent condition, flightcase, 4 sound cards, pedal, manuals, £430. **01785 222783**

ROLAND D10 Super LA synth, 76-note keyboard, mint, little used, with sound card, expression pedal, dust cover, box and manuals, £850 inc p&p. **Lee 01228 401480**

ROLAND D110 module, good condition, manuals, £225. **Richard 01305 782554** after 6.30pm

ROLAND D110 multitimbral synth module, £179. **Julian 0181 549 5252**

ROLAND EPV MIDI digital piano, £70. **Lee 01222 470699**

ROLAND HP7700 digital grand, black polyester finish, new cost £10,400, perfect condition, offers around £5500. **01633 282614**

ROLAND JUNO 6 analogue polysynth, vgc with manual, £150 ono. **Horsham 01403 264884** or **265396**

ROLAND JUNO 6, very good condition, £200. **Yiu/Andy 01902 561702**

ROLAND JUNO 60 programmable analogue synth, excellent condition, case, manuals, complete with SQ60 sequencer. Hardly used, £450. **Pete 01776 519520 (Essex)**

ROLAND JUNO 106 with flightcase, £550, Juno 2, £30, Bass Station, £250, Roland U20 with 2 cards, £450, Sony DTC690 with Pro modification, £400, Keyboard stand, £40. **01322 306556, Darren**

ROLAND JV30, 16-part multitimbral, excellent condition, boxed, manual, PSU, unopened, as new, £450, JV35 as above, not repairable, hardly used, £550. Both great value. **01882 543633**

ROLAND JV80, mint condition, sound card, flight case, £525 ono, Korg Poly 800, £150 ono. **Alexis SR16 drum machine, £160 ono** **01446 722804 (Cardiff)**

ROLAND JV80 sound module, manuals, mint, home use only, bargain, £480, Tascam MM1, 20 channels, MIDI mute, manuals, mint, £470, Akai S2800, £1000. **Pascal 0181 368 1877**

ROLAND JV880 module, excellent condition, boxed with manual, 28-note polyphonic, 4 outputs, 19-inch rackmountable, £390. **Reading 01734 267754**

ROLAND JV880, £450, Yamaha RM50 drum module, £350, Akai S01 sampler, £450. Home use only, all boxed with manuals. **Adrian 0171 494 0682**

ROLAND JV EXPANSION board, Vintage Synth, brand new, £200 ono, JV Experience board, £60 ono. **Chris 0181 748 4631**

ROLAND JX1, £200, Alexis SR16, £160, Cheetah MQB, £90, Fastex X26, £190, Casio RZ1, £90, Yamaha REX50 digital multi-effects, £90. **Jonathan 01792 472560 (Swansea)**

ROLAND JX3P programmable preset polyphonic synth, vgc, inc flightcase, £290. **Ray 01708 744535 (Essex)**

ROLAND JX3P, stand, semi-flightcase, PG200 programmer, TR608 drum machine, Cubic 60 keyboard amp, instruction manuals, little used, all in mint condition, £500 all package. **01329 845265 (Hampshire)**

ROLAND JX3P analogue synth, good condition, plus manual, £250, Roland GR drum machine, £295, Korg Poly 800 analogue synth, vgc, condition with manual, £120. **0181 224 2964**

ROLAND JX3P analogue synth, superb condition, £220. **Simon 01705 652007 (Porthsmouth)**

ROLAND JX3P, £350, R70, £250, Boss phaser, £25, Denon DRM510 cassette, £65, all in original boxes, perfect condition. **01543 410869 (Warwick)**

ROLAND JX8P analogue polyphonic MIDI synthesizer with PG800 programmer, card and manual, excellent condition, £690 ono, Juno 106 classic analogue synth, very good condition, £350 ono. **01487 831287**

ROLAND JX8P, £350, Studiomatic JIMP1 MIDI unit, £125, Roland Jupiter 4, £400, Jen SR1000, £90, ART Proverb, £90, Casio VZ1, £275. **01344 387424**

ROLAND JX8P analogue polysynth, good condition, £350 ono, Atari compatible ergonomic EPS tempo indicator, Eze by Gelva software, £95 including dongle and documentation. **Chris 0421 507144**

ROLAND JX8P, £350 or swap for DX7 MkII, Matrix 6R, £625, Roland MKS7, £275, Chase Pro 99 and flightcase, £325, Kawai K3, £225, Jen SR1000, £100, Emu Emax 11R, £875. **Dave 01394 387424**

ROLAND JX10 (Super JX), very good condition, quick sale wanted, hence £400 ono. **Janmy 0171 7406220**

ROLAND JUPITER 6 analogue synth, vgc, manual, studio use only, £650, Emu Proteus, vgc, £300, Akai S1000, 8MB, SCSI DIG 100 vgc, £1200. **0151 526 2178**

ROLAND MDC1 drum module, 1 month old, boxed, as new, £399. **Phil 01865 245110 (Oxford)**

ROLAND MKS70 monster synth module, complete with PG800 programmer, £600, Oberheim Matrix 6R synth module, £350. Look no further for ultimate analogue sound. **Tony 01473 685573 (Suffolk)**

ROLAND MKS80 Super Jupiter with PG80 (Synth) programmer, offers. **Dave 0151 638 7931 (Leave message at 0151 289 3580)**

ROLAND MT32 multitimbral module, excellent condition, £120 ono. **01534**

ANDORA

ROLAND RD250S electronic piano, very good condition, £545, Roland PR100 disk sequencer, £85. **Martin 015242 41619**

ROLAND SC33 Sound Canvas, £200, Kawai K1R, £200, or both for £350, both boxed with manuals. **01266 632412**

ROLAND SC88 Sound Canvas, mint, £600 ono. **Ruaran 0589 825 905** or email, **ram200@hermes.cam.ac.uk**

ROLAND SH02, MPU101, DEPS, DEP3, Mutation 3, Case F210M, Korg Synthi pedal, Electro Harmonic Electric Mistress, Watkins Copycat, Frontline X2 dual drum synth, Aless compressor, Revex A77. **Ed 0171 735 0798**

ROLAND SH09 + MC202, top condition with manuals (202 boxed), better than TB303, £250 each, £450 both. **Ben 0181 542 7474**

ROLAND SH101, with handgrip and manual, £250 ono, Mackie 1202 mixer, £230. **Richard 01482 796712**

ROLAND SH101, boxed, never used, totally unmarked with MG1 modulation grip and strap, also boxed and unused. Ideal for collector. Must see together, offers. **Duncan 0114 248 2760 (Essex/Suffield)**

ROLAND SH101, excellent condition, as new, manual, £190. **Peter 01689 856860 (Kent)**

ROLAND SH101, mint, with PSU, £295 ono, Roland SH100C, average condition for age, £150 ono, Farfisa organ, chrome stand and manual, bargain, £70. **Mark 01782 849016**

ROLAND SH101, £175, Juno 106, £450, Yamaha DX7, £295, Peavey Spectrum analogue filter, £250, Breakthru sequencer software for Atari ST, £65. **01305 774367 (Dorset)**

ROLAND SH1000 analogue synth, hard case, manuals, recent service, reluctant sale, £160 ono. **Dan 01273 722248**

ROLAND SH1000 analogue monosynth with CV and gate inputs, very collectable 1970s synth with resonant filters and noise, average condition for age, include original case, £180 ono. **01782 849019**

ROLAND SOUND CANVAS, remote control, boxed with manual, 100% original condition, £250, no offers. **Steve 0113 2785603 (Leeds)**

ROLAND SUPER JX10, very good condition, manuals, £500, Behringer Ultraflex 2, six months old, £175. **Mark 01274 611343**

ROLAND SUPER JX10, super condition with flight case, bi-timbral, 12 voice polyphonic, two oscillators per voice, 76-note keyboard, £650/offers. **Joel 0151 726 1560** after 6pm

ROLAND U220 with percussion card, £225, Roland Super JX module (collectors item), £495, Roland MKX550, £195, Peavey MIDI Master Patchbay, £150, Casio VZ8M, £85, all mint. **01302 808975**

ROLAND U20, £450, Roland U110, £200, ART MultiVerb FX, £200, Notator SL, version for Atari ST, £100, all in good condition. **Dave 01227 275663**

ROLAND U220 module, home use, never played, with Ethnic card, £350 ono. **0181 494 1766**

ROLAND XP50 keyboard, excellent condition, never used. **0181 5954878** after 7.30pm

SEQUENTIAL PRO 1, manual, £340, Roland SH09, manual, £170, Alexis 1622 mixer, boxed, manual, £380, Roland PG800 Programmer, £290, Cheetah M56, manual, £250. **01825 724093**

SEQUENTIAL PROPHET 5, full MIDI REV3, absolutely mint condition, reluctant sale, £1000, Roland JX10 analogue, 3 ROMs, memory card, etc, immaculate, £500. **Robert 01933 380926 (Northants) or 0181 548 8136**

SEQUENTIAL PROPHET T8, true analogue, programmable MIDI synth, loads of knobs for ease of creating fantastic warm sounds, polyphonic aftertouch and velocity, 76-note keyboard, amazing machine, £2200. **01363 775214**

SEQUENTIAL SIXTRACK 6-voice analogue synth with arpeggiator and sequencer, carry case, as new, £325. **01524 736158**

STUDIO ELECTRONICS SE1, boxed, Minimoog with memories in a rack. **0121 351 4011**

TECHNICS KN3000, one month old, £1700 ono, looking for Korg iZ. **Tom 01522 750527**

TECHNICS SX KN2000, as new, home use only, with box and manual, £1250 ono. **0181 809 6371 9am-9pm (North London)**

TECHNICS SX WSA1 virtual modelling synth, 61 keys, 64-note polyphonic, 5 months old, hardly used, £1500. **Matt 01480 385059**

TEISCO 60F monophonic analogue synth, mint condition, fully serviced, ARP circuitry, Gate and CV in and Out, external input filter, beautiful build quality smooth, fast filter, very rare. **01535 645233**

TEISCO 100P preset analogue synth, manufactured under licence from ARP, velocity-sensitive keyboard, flanger, great bass, Gate and CV Ins and Outs. £100 ono. **01535 645233**

VOX SUPER CONTINENTAL ORGAN, 1966, very good condition, with original 3-stand, case and Vox carry cover. **0831 262569** or **01274 602621**

WALDORF PULSE full MIDI control analogue

synth, £450 with 10-month guarantee, Casio CZ101, £100 with case and manual. **Cambridge 01223 357097**

WURTLITZER EP2000 electronic piano with stool, £200, Yamaha TX7, £125, Moog Prodigy, £120. **01689 852707 (Orrington)**

YAMAHA CLAVINOVAX electronic piano, 88 weighted keys, £495 ono, EMT10 and EM101 MIDI data recorder, £50 each. **Dave 01785 667878 (Stafford)**

YAMAHA CS01 analogue monophonic micro synthesizer, mint condition, battery or mains, breath control, resonant filter, built-in amp and speaker, owners and service manuals, Gate/CV. **01535 645233**

YAMAHA CS60 8-voice analogue polyphonic synth, mint condition, fully serviced and tuned monster sound, the best ring modulator with full envelope control, great variable ribbon controller, hard case, Kenton MIDI available. **01535 645233**

YAMAHA CS80 classic keyboard, good condition. **Mark 01302 890336 (Dorchester)**

YAMAHA CS15 analogue synth, 2xVC0, 2xVCF, 2xVCA, 2xEG, LFO, PWM, Portamento glide, pitch bend, 2xCV in, 2xTrig in with separate chorus pedal, £250. **Mike 01908 604820 (Millen Keynes)**

YAMAHA CP89 digital piano, top of range, hardly used, unwanted present, £4500 ono, first to see will buy. **Danny 0973 676717**

YAMAHA DX5 with manuals, two ROMs, flightcase, as new condition, £650, Sony 785 0206 mornings

YAMAHA DX75, perfect condition, £295, Yamaha SY85, manuals, mint, £695, Korg Tenity Plus, £2395. **01932 761988**

YAMAHA DX711D, classic synth, boxed with manual, home use only, mint condition, free Yamaha RX17L drum machine, £300. **01234 267256**

YAMAHA DX711FD, ultimate version of this classic synth, bi-timbral, unison mode, good MIDI spec, £425 ono. **Paul 01527 550135/541511**

YAMAHA DX75, immaculate, ROM pack and manual, £350. **Liz 0151 734 0772**

YAMAHA DX11 keyboard, home use only, £225 ono. **Manual. Roy 01255 812889 (Clacton, Essex)**

YAMAHA DX21 MIDI FM synth, based as new, home use only, manual, tuition tape and sustain pedal, 128 presets/16 user memories, £250. **Stewart 01353 669854**

YAMAHA DX21 MIDI synth, excellent condition, £150, Yamaha RX21 MIDI drums, £50, Yamaha DP100 dynamic processor, £50. All with manuals. **Jonathan 01252 873766**

YAMAHA DX27 4-operator FM synth, excellent condition, 192 presets, with PSU, clip-on music stand, manuals, playlock, loads of sounds on cassette, PD editor and sounds on disk for Atari ST. Affordable way to go FM with a full-sized keyboard, £180. **01354 695239**

YAMAHA DX100 classic synth, mint condition, plus manuals and PSU. Swap for Casio CZ101 or sell for £100 ono. **Joe 0171 258 7288**

YAMAHA MU50, mint, hardly used, with manuals, £330. **Liz 01222 470699**

YAMAHA MU5 tone generator with PC/Mac interface, £250. **Dave 0171 624 1816**

YAMAHA MU80 synth module, amazing spec, £350, Yamaha CBXK1 mini mother keyboard, £90, Tascam 4X4 4-track portastudio, £350. All as new. **Jezi 0171 738 3206**

YAMAHA MU80 super module, 64-note polyphonic, 32-part multitimbral, 32 discrete MIDI channels, 729 sounds, 2 months old, £400. **Andy 0191 285 8293**

YAMAHA MU80 sound module, 64 note poly, 32 part, analogue input, £430, boxed, as new. **01223 300488 (Cambridge)**

YAMAHA P1120 Clavinova electric piano, mint, £1100, Tascam M1024 24 2 mixer, flightcase, £550, Roland M12E rack mixer, £350, Yamaha QX3 sequencer, £260, Roland EP3 electric piano, £150. **Richard 0113 294 5649**

YAMAHA SY77 workstation, extra sounds, hard flight case, good condition, home use only, £400 ono. **0973 308941** or **01992 558845**

YAMAHA SY77, excellent condition, extra sounds, £650, MT3X 4-track, 6 channels, £290 mint. **01902 836203**

YAMAHA SY77 workstation, ROM cards, disks and manual, home use only, £600 ono. **0121 475 4655**

YAMAHA SY77 vgc, 5000 extra sounds, £700 ono, Yamaha SY35, boxed, as new condition, £325 ono, PXK for cheaper synths, D70, etc. **01287 642376 (Cleveland)**

YAMAHA SY77 workstation with sequencer and disk drive, hundreds of extra sounds on disk, £600 ono or prex for Roland XP50. **Rob 0161 633 9817 (Lancs)**

YAMAHA SY85 synth, boxed, excellent condition, complete with stand, MIDI leads, audio leads, user manuals and data disks, £700 ono. **Stuart 01905 767358 (Worcester)**

YAMAHA SY85 synth, only 3 months old, memory card, disks, X-stand, £595. **Andy 0116 232 0248**

YAMAHA SY85 and Kawai K1R synths, fully boxed with manuals, home use only, £850, will split. **Andy 01484 647131**

YAMAHA SY85, boxed, as new, various disks and flightcase, £725. **Darren 0802 825771 (Northampton)**

YAMAHA SY85 workstation with RAM expansion and extra sounds, immaculate condition with manuals, forced sale, £750

ono. **0181 455 2463**

YAMAHA SY85 multitimbral workstation, £650. **01723 685231**

YAMAHA SY85, £750, Atan Mega 45T with hard disk and monitor, £150, Steinberg Mixmax+ £200, Cubase V3, £200, Digitech Vocalist II, £350, Yamaha TX16W, £500, Yamaha MV1602 mixer, £450. **0181 661 2786**

YAMAHA SY85 workstation plus extra sounds and manuals, vgc, £680. **Glen 01843 230375**

YAMAHA SY99, expanded 1Mb RAM, MCD64 RAML card, sample disks, instruction books, £1000, no offers. **01485 540536 (Norfolk)**

YAMAHA TG33 32-note, 16-part, 192-voice, FM and AWM synthesis, vector control effects, dual stereo outs, very good condition with manual, £250 ono. **Adam 0121 313 0477**

YAMAHA TG33 synth module and RAM card, 128 presets and 128 programmable sounds, random programming feature, mint condition, all manuals, £250. **Dave 01443 450758 (Cardiff)**

YAMAHA TG55 good condition, sound cards available. **0181 778 3321**

YAMAHA TG55 sound module, manual, leads, £100, Aless DataDisk SQ, £100 both excellent condition. **Jim 01264 357957 (Leeds)**, **01256 483430 (days)**

YAMAHA TG77 rackmount synth, as new, boxed £650. **John 01344 750959 (Berkshire)**

YAMAHA TG77, equals 16 DX7s plus resonant filter and amplifiers thru same filter, £500. **Rich 01924 848823 (W. Yorks)**

YAMAHA TG100 sound module, £160, Tascam 4-band parametric EQ, £100. **Tony 01727 763124**

YAMAHA TG100 GM sound module, 16-part multitimbral, Atan editor and sequencer software, all for £230, Tascam 248 4-track, £110, in need of repair, Fender Rhoads Stage piano £120, in need of repair. **Steven 01920 462567 (Herts)**

YAMAHA TG300 synth module, as new, boxed with manuals, an absolute doddle to program, £295. **Chris 01785 819929 (Staffs)**

YAMAHA TG300 2 years old, excellent condition, with PSU and manuals, £300 ono. **Mark 0113 257 9790**

YAMAHA TG500, £560, Korg M1 pedals and flightcase, £680, Hohner H52 (silver Casio VZ1), flightcase, £300, 20 SKB case, £70, Frontline 20 8-channel line mixer, £120, boxed, mint. **01223 504623** after 7pm (Cambs)

YAMAHA TG500, £500, TG100, £135, both boxed, Emu Proteus/3 World, £275, all excellent condition with manuals, Atari editor/librarian software, home use only. **Gary 01202 579640 (Bournemouth)**

YAMAHA TG500 MIDI Module, extra RAM card, immaculate, £490, Kawai K4 keyboard, extra RAM/ROM cards + editors for Atari, £350, all boxed with manuals. **Rob 0802 813990 (Croydon) 24 hrs**

YAMAHA TX7 and QY10, £99 each/£149 for both inc. delivery, or swap for any MIDI synth module. **Mozani 088 764415 (Malaysia) after 19am UK time**

YAMAHA TX802 multitimbral DX7 in rack, vgc, quick sale, £300, Alexis HR16 drum kit, £100. **Reb 0181 879 3418** after 6pm (Wimbledon area)

YAMAHA TX802 multitimbral FM synth module, good condition, just £300. **Steve 01895 441515**

YAMAHA V50 FM workstation, 16-note polyphonic, 9-track sequencer, excellent condition. **Chris 01915 Yamaha V17 vintage acoustic synth, brand new, £920. Eileen 01744 758883 (Hampshire)**

YAMAHA W5 workstation, including Vintage board, 76-note keyboard, superb sounds/drums, massive 100,000-note sequencer, immaculate condition, boxed manuals, long original warranty, £999. **01952 260064**

YAMAHA W7 workstation, as new, boxed, 12 months old, home use only, £650 ono. **0121 605 6399**

RECORDING

1940S PRO MOVING COIL carbon microphone for sale. It's big and it's heavy, £250. **01379 853782**

ACUSTIC 3312 monitors, 150watts, 33Hz-22kHz, 95dB/Watt, 12-inch woofers, 5-inch midrange, three-inch tweeters, protective metal grills, retail £800 each, as new, all offers considered. **Email RAM200@HERMES.CAM.AC.UK**

ALESIS 1622 mixer, £395, Studiomatic 8 2 Mixer, £195, Technics 7-channel equaliser/analyser, £95, two DTI-approved Shure lapel radio microphones, £145 each. **Jon 01609 748339 anytime (N. Yorks)**

ALESIS 3020 compressor/gate, £150, Behringer Ultraflex II, £150, Alexis Mikroverb II, £100, Zoom 9001 multi-effects, £100, no offers. **Richard 01757 701010** after 6pm (Selby)

ALESIS 3630 compressor, £225, Akai S3000 2Mb board, £140, Zoom 9120 multi-effects, £300, Roland Experience Expansion board, £60, all new boxed with manuals. **Dave 0181 902 9784 (NW London)**

ALESIS ADAT 8-track digital recorder, v4.03, only 140 hours on need drum, good condition, £1500. **01302 832420**

ALESIS ADAT and Allen & Heath G51 mixer, only a few hours use, both in mint condition,

E2100. Lee 01302 880975

ALESIS MICROLIMITER vgc, £50. **0141 423 1106**

ALESIS QUADRAVERB PLUS, powersupply and manual, boxed, excellent condition, £250. **lan 01227 462059 (Canterbury)**

ALLEN & HEATH SYSTEM 8, (F50, Fastex M80, £600, Matrix + MIDI expander, £180, wanted! Dance Card for R8, £80 paid. **01736 68253**

AMPX 499 half-inch tape, used once, £15 reel, Ampex 456 half-inch, £10 reel, Zonar 700 half-inch alignment tape, (15ips, used once, £50. **Mark 01822 854389 (Dorset)**

BEHRINGER ULTRAFLEX 2, 3 months old, mint, £75. **Mark 01274 611343**

C-DUCER contact mic, includes PSU and DI boxes, superb on instruments, perfect drum separation, fully pro, boxed as new, £250 the lot. **01482 448767**

CITRONIC SM650 mixer and XF150 X-Fader, broadcast quality, cost over £1300 now, will sell for £450, 1300 7-inch singles, 350 12-inch singles, £200. **John 01895 465368**

DBX 119 stereo compressor/eq, can be used for controlling dynamics when recording or as noise reduction unit, £50. **01239 278522 (Hampshire)**

DIGIDESIGN SMPTE Slave Drive for Mic, Pro Tools, etc. unopened, £650. **Julian 0181 549 5252**

DIGIDESIGN SOUND TOOLS 2 system with S/O 2.7 software, boxed with manuals, four in/outs with Cubase Audio or Logic Audio, etc. **Mark 0181 539 7643 (Leeds)**

DIGITECH digital delay, rackmount, 4-second sample trigger and modulation, with manual, £110. **0171 639 8727**

DIGITECH VOCALIST II, hardly used, boxed, £550. **Mark 01788 543879**

ECHOPEX echo unit, of type used by Elvis, Brian May, Steve Hillage etc. early 60's model, needs some restoration, £200. **01279 853982**

ENSONIQ DP2 half a DP4, same quality sound for half the price, two parallel effects, two weeks old, shop wouldn't refund, costs £750, make me an offer. Box, receipt, guarantee. **0162 538304**

EVENTIDE DSP 4000 effects unit, perfect condition, never opened, Studio Electronics SE1 Minimoog with memories, boxed. **0121 352 4011**

FOSTEX 16-track recorder, inc looms, tapes and remote panel, mint condition, £2950 ono, can deliver. **Gary 01603 747842**

FOSTEX 2-TRACK open reel recorder with centre track for timecode, includes remote control, excellent condition, hardly used, £900 ono. **Kelvin 01222 864243 (Gwynedd)**

FOSTEX 280 cassette multitrack plus J Cooper PPS2 MIDI-tape pair, both excellent condition, £270 the pair. **lan 0171 739 1459**

FOSTEX 280 4-track tape machine, Comprehensive 8-channel mixer and transport controls, ideal for getting those ideas down. £350 ono. **Dustin 01703 557054** or E-mail **dp4@dotcom.ac.uk**

FOSTEX 380S, double speed 4-track with 12 inputs and Dolby S, loads of brilliant features, excellent condition, £380 ono. **01424 832075**

FOSTEX 812 dual, MIDI mute, cost £1100 new, vgc, £475 for quick sale. **01223 322442**

FOSTEX 812 12-channel, 8-group mixer, 3-band EQ with sweep, 3 aux, 30 channels on mix, vgc, boxed with manuals. **01223 894270**

FOSTEX 820 mixer, 20 channels, eight subgroups, 38 inputs on mix, bargain at £795. **Bit 99 analogue MIDI synth, £250, Yamaha F801 module, £70, home use only. Nottingham 0115 981 6464**

FOSTEX 2412 desk, hardly used, boxed, £995, Atari Falcon with CDP Soft, SDI, £2650 no hard drive, £495. **Tristan 01865 4014366**

FOSTEX 4030/4035 sync units, £450. **Gary 01868 810956 (Chon)**

FOSTEX AB, perfect condition, only 20 hours use, just serviced, with Tascam MT330, £600. **Alex 01752 789541**

FOSTEX B16 and Studiomatic 20, 16.2 desk, with 16 monitor channels, giving 32 simultaneous inputs, full looms plus tapes, may split, £1950. **01724 855095**

FOSTEX B16 with remote and test tape, recent service, home use only, £1100 including shipping to 6823 Fax 00 852 250 4336

FOSTEX E16 16-track tape recorder, £1800 ono. **01638 880858 (Gwynedd)**

FOSTEX E16, good head, well maintained, SICK 18.2 with meter bridge and case, Fastex 4050 auto/auto/retro/sync/trim to E16, £2550. **may split. Paul 0191 453458 (Hampshire)**

FOSTEX E16, rack mounted, with stand, 22000 2 track mixes, £900 each, Remco B77 guitar/line eqn reel, £700. **Tony 0171 372 6428**

FOSTEX E16, £1700, Fastex 4050, £225, Studiomatic 16 8 16 desk. **Dave 01522 778929**

FOSTEX G245 with 8330 sync board, home use only, excellent condition, quick sale needed. **£3500 ono, Alexis Quadrasynth SA rack, £450. Terry 0181 521 4491**

FOSTEX M80 8-track, home use only, £500. **Terry 0151 931 1657**

FOSTEX R8, very little use, perfect condition, boxed with manual, £750 ono. **Pete 01503 220762**

FOSTEX R8 wiring loom and tapes included,



“NOW READ THIS !”

“Those splendid chaps at Dance Village have done it again.

They have got together with those marvelous people from Crosstrax Recordings and Bagleys Warehouse to bring you a WORKSHOP SPECIAL, which will include, Production, writing, programming, editing, mixing, mastering label management, publishing, sample clearance, licensing, getting paid!, and so much more.

So don't delay pick up the phone today and call Ray for further details.”



Dance Production Workshops

Sat 22nd June

BATTLE OF THE SPEAKERS
Featuring, Alesis Monitor 1's, Spirit Absolute 2's, K-Rok etc...

Sat 29th June

CROSSTRAX RECORDINGS
will pick the best demo, remix and release it. Demos can be either sent to Crosstrax A&R Dept, Dance Demo's, Crosstrax Recordings Ltd, Arch 25, Goods Yard, York Way, London, N1 0EZ. Or bring it along on the day

Sat 6th July

ANALOGUE WARS
The Waldorf Pulse, Novation Basstation, Korg Prophecy, Roland 303, Nord etc, go head to head

Sat 13th July

BREAKS 'N' BEATS
Sample editing with Steinberg Recycle

230 High Street, Barnet, Herts, EN5 5TD Tel: 0181 440 3440 Fax: 0181 447 1129
E-mail: dancevillage@channel.co.uk Store Hours: 9.30am - 6pm Sat: 10.00 - 5.30pm



A division of the The Digital Village.



CALL US NOW
01202 395135
EXT. 130

THE LARGEST MUSIC STORE IN THE SOUTH



MASSIVE STOCKS

EMM Ltd

EDDIE MOORS MUSIC LTD
 679 CHRISTCHURCH ROAD
 BOURNEMOUTH BH7 6AE

THE SOUND
 INVESTMENT

Professional Service!! Lowest Prices!!

KURZWEIL

Lowest Prices On All Kurzweil Products.
 K2000 From £1899
 K2000R From £1799
 K2500 CALL NOW
 PC88 Master Keyboard
 K2500X Mega synth

KORG TRINITY

Trinity & Trinity Plus New Low Prices

YAMAHA W5

W5 Workstation Exclusive Limited Stock £999

FATAR STUDIO 900

88 note fully weighted Now only £235

KORG PROPHECY

Korg X5 £585
 Korg XSD £699
 Korg X3 £849
 Korg X2 £1099

ROLAND XP-0

XP10 88% XP750 Best UK Prices!!

SAMICK KK1L

TECHNICS WSA1

Technics WSA1, WSA1R. Acoustic modelling synthesizers. New Low Prices!!

ROLAND A30

76 keys. Pitch Bend. Modulation. Now £299

HAMMOND XB2

Hammond XB2 Awesome and Portable!!

FATAR 2001

2001 Features Include 88 note weighted keyboard, 8 Zones, Aftertouch Pitch and Mod wheels, 99 patches transmitting splits and prog changes.

Top of The Range Control keyboard. Demo Units at Only £799

FATAR STUDIO 49

Studio 49 49 Velocity sensitive MIDI Keyboard. Only £85

76 note piano action control keyboard with assignable aftertouch. Now Only £379

SYNTHESIZERS & KEYBOARDS

EMU SYSTEMS

Lowest prices on all EMU modules!! Orbit The Dance Planet Call Now!!

Roland JV1080

Call us now for the best possible deal on the JV1080.

NEW KEYBOARDS

Stunning Expansion Board Deals!!

Roland MT120S

RRP £899 Now £549

The MT120S combines a 4-voice, MIDI sound module, a Standard MIDI file player, a five track sequencer and an integrated amp and speaker system.

Waldorf Pulse

Call

Kawai XSI

£129

The XSI Represents Great Value 96 single + 32 user programmes 4 part multitimbral + drums.

Roland P55

£299

32 dynamic piano and keyboard sounds including stage and concert grands, Rhodes and Roland electric pianos. RRP £495

Roland SE Series

Our module prices cannot be beaten. Call us before you buy. Korg OSRW, Korg XSDR, Yamaha MU50, Yamaha MU80, Novation Bass Station Rack, Oberheim OBMX.

GMega LX

£149

Amazing Value GM Sound module. 160 Sounds, 7 Drum Kits, Serial Interface.

Roland JY880

£469

Powerful synthesiser module. Digital filters with resonance. Four stage envelopes and multiple LFOs.

EXPANDERS & MODULES

BOSS DR5

We have just received a limited quantity of this amazing unit at the unbelievable price of only £259

ROLAND MC50II

SMF compatible 8 Songs. Huge Memory. Step & real time record. Super fast loading time. The ultimate Dedicated sequencer.

RRP £799 Now Only £499

NEW AND USED EQUIPMENT SALE.

| KEYBOARDS | | RECORDING | |
|--------------------|-------|-----------------|-------|
| Roland JX3P | £249 | Rhodes 660 | £399 |
| Roland JX3P | £299 | Rhodes VK1080 | £699 |
| Orla C80 commander | £749 | Yamaha MT8X | £799 |
| GEM S2 | £799 | Folio Rackpack | £649 |
| Yamaha V11 | £1999 | Tascam Porta 07 | £339 |
| Roland D50 | £399 | Tascam 488 | £699 |
| Roland XP50 | £1199 | Sansui MR6 | £349 |
| Yamaha DX21 | £159 | Tascam 464 | £499 |
| Korg M1 | £499 | Studiomaster P7 | £1499 |
| Korg 01WFD | £999 | Digitech Voc II | £379 |
| Yamaha SY85 | £699 | Fostex XR5 | £299 |
| | | Yamaha MT50 | £299 |

ROLAND VS880

NOW IN STOCK

AKAI DR8

AKAI DR4

AKAI DR16

FOSTEX DMT8

MACKINTOSH

CRXDS

Call us to discuss your digital audio requirements. Our Software & Hardware deals are unbeatable!!

ZIP DRIVES

£199

JAZZ DRIVES

£499

FOSTEX D50

SOUNDSCAPE

SSHDR1

DIRECT TO DISK SYSTEMS

ACCESS. VISA. CREDIT FACILITIES. FAST EFFICIENT SERVICE. OVERNIGHT DELIVERY.

DIGITAL MULTITRACK

ADAT
Lowest
Ever Price



ADAT XT EXCLUSIVE New Low Price!!

8 TRACKS OF CD QUALITY RECORDING !!
At this price, NOW is the time to go for your first ADAT or to expand your existing system.

OUR ADAT XT PACKAGES
ARE UNBEATABLE

TASCAM DA88

We Always Have The TASCAM DA88 Available From Stock. Contact Us Now To Discuss Your Single or Multiple System Requirements.

TASCAM



ALLEN & HEATH EXCLUSIVE

We have just obtained a quantity of GSI 8 Bus Mixing Consoles at a Massively Reduced Price. The GSI is the only true 8 bus recording console at this price level. It is sonically transparent and specifically designed for digital multitracking. The GSI features 32 inputs, 5 Aux sends, MIDI muting and MIDI tape transport control. Our Exclusive deal Includes the optional Meterbridge at £699.



Other Allen & Heath Exclusives
GS3V 16 £1999, GS3V 24 £2799,
GS3 16 £1599

GSI Package,
GSI+Posnex D80 Eight Track Digital
Recorder £1999!!
Price includes 850 Mb Hard Drive

AKAI SAMPLERS



S3200XL

New Low
Price !!

This new top of the range pro sampler is now fast becoming the industry standard. Loaded with features at an incredibly low price. Call for details.

S2000

The S2000 is a 32 note polyphonic sampler, expandable up to 32Mb.

The basic model costs well under £1000.



MESA Editing Software now included with S2000, S3000XL & S3200XL.

Ask about our free memory upgrades!!

S3000XL Best Ever Deal Call Now!!

digidesign

We are now able to offer the entire range of Digidesign Audio Products. Call our Digidesign specialist NOW for information and a quote.



DINR



SAMPLERS

EMU SYSTEMS



Lowest Possible Prices On All EMU Samplers.

E64 PRO PACKAGE

Our E64's are equipped with 8Mb RAM and a 270Mb Internal Hard Drive pre-loaded with over £200 worth of genuine EMU library.

ROLAND S760



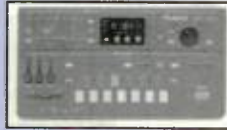
S760 with
32Mb
RAM
Only
£1599

Lowest ever price on S760

DA400 & OP760 Option boards in stock!!

JS30 £449

CD-Quality Sampling Workstation.



Features include:-

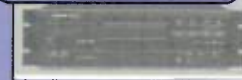
- 44.1/22.05KHz Sampling Rates
- UP to 90 Seconds Sampling Time
- Crossfade Mixing
- 12 Sample Trigger Pads
- SCSI Interface

Reads Roland and Akai Libraries over SCSI

**ROLAND JS30
EXCLUSIVE DEAL £449
Including zip drive £599**

DAT RECORDERS

TASCAM DA20



TASCAM DA20 NEW LOW PRICE

TASCAM DAP-1



DAP-1
Pro Spec
Portable DAT
Recorder

TASCAM DA30MkII



Lowest ever DA30MkII Price
Limited stocks of the UK'S Best
selling Pro spec DAT Recorder
at an unrepeatable deal!!

**Our DAT Prices are The
Lowest You Will Find.
Call Us for a Quote**

PANASONIC



SV-3800, SV-4100

SONY



PCM 2000, PCM - 2000, DTC8 8,
DTC4 5, TCD10 Pro. **BEST UK PRICES.**

FOSTEX



D5, D10, D25, D30.
BEST UK PRICES.

PCM-80

LEXICON

As a Pro Studio Main Dealer We offer the best advice and the lowest prices on all Lexicon and Aphex equipment.

APX Dual MP

Two channel Tube Microphone Preamplifier
The Dual MP Retails at £389. We have limited
stocks available at only £269



Lowest possible Mic prices.
AKG, AUDIO TECHNICA, SHURE,
BEYER, SEAMANN, RODE

ALESIS



Let us beat your best quote on any Alesis Equipment
Quadraverb 2, Midverb 4, Microverb 4, 3631,
Compressor, M-EQ 230, DM5, SR16, RA100

APX

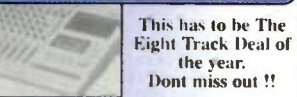


Aphex C2 Exciter 107 Mic Preamp 106 4ch
Comp 105 4ch Gate 661 Valve Comp/Lim.

APX 106

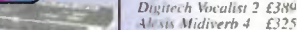
Four Auto Compressors in One

TASCAM 488 II £899



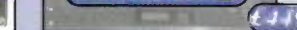
This has to be The
Eight Track Deal of
the year.
Dont miss out !!

Behringer



Digitech TSR12 £279
Digitech Vocalist 2 £389
Alesis Midverb 4 £325
Lexicon Alex £299
AKG C1000S £189
AKG C3000S £279

KAWAI RV4



4 INDEPENDENT STEREO EFFECTS
UNITS IN ONE, 8 INPUTS & 8
OUTPUTS, 99% DRY. Now Only £439

JBL 4208



The JBL 4208 are professional studio monitors that retail at £400. We have limited stocks at only 3279

RACK PACK



We offer the very best deals on all soundcraft mixers and studio products. Call us now

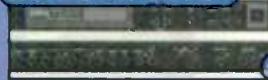
SPIRIT STUDIO



SPIRIT LITE

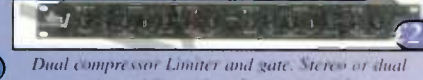


YAMAHA TMX



TMX Drum sample module with 211
Sampled Sounds, midi and 12 analogue
trigger inputs. Brilliant!!

DBX 266 COMPRESSOR



Dual compressor Limiter and gate. Stereo or dual
channel Operation Now Only £229

STUDIOMASTER



BEST PRICES

P7

DIAMOND



Diamond Club
Gilded Factory
Stock.
16-7 £299
12-2 £259
8-2 £199
-2 Alexa
3 Band EQ
Balanced Inputs

Behringer Eurorack



Behringer Eurodesk and Euro rack
at new low prices!!

Check out our prices on
KRK studio monitors.

Let us quote you the best
prices on Absolute 2s,
Monitor one & NS10Ms!

MACKIE



BEST PRICES

YAMAHA 02



K. ROK



SOUNDTRACS

Free Topaz
Meter Bridge
Offer with 24
& 32 channel
consoles



TOPAZ

ACCESS, VISA, CREDIT FACILITIES, FAST EFFICIENT SERVICE, OVERNIGHT DELIVERY.

£850 ono • 01295 710130

FOSTEX RB with MTC1, very good condition, recent service, £900 ono • Blair 01225 763235, eves

FOSTEX RB plus 812 mixing desk, mint condition, plus looms and extension lead, £1400 • Colin 01342 850507

FOSTEX RB plus Seck 12.8.2, vgc, including loom and manuals, £1000, might split, Korg DDD1 drum machine with manual, £100 • Adam 01304 212520 after 6pm

FOSTEX RB, immaculate condition, £750 • Lee 01226 283487

FOSTEX RB, approx 10 hours use • Nick 01273 601648 12-6pm (Brighton)

FOSTEX RB recorder, Studomaster Mixdown 16.16 desk, Quad A05 amplifier, Celestion 3 monitors, looms, manuals and boxes, £1700 • Paul 01422 839631 (Halfax)

FOSTEX RB multitrack, MTC1 and remote extension lead, excellent condition, £750 • Steve 0115 962 6795 (Nottingham)

FOSTEX RB, £700, Fostex 2016 line mixer, £175, Yamaha RBX 350 bass guitar, £180, Yamaha SY35, £300, Yamaha RY30 drums, £180, all good condition with manuals • Roger 01450 870225

FOSTEX RB 8-track with MTC1 sync box, home use only, with three reels of Ampex tape, boxed, manuals, vgc, £800, Roland MT32, £110 • 0113 282 2239

FOSTEX RB, virtually unused, perfect condition, boxed with manuals, £800 • 0973 733843

FOSTEX RB reel to reel, immaculate condition, remote extension, manual, leads, quick sale required, hence £650 • Luca 0171 207 9726 anytime

FOSTEX X26, brilliant 4-track, 6 inputs, auto send and return, equalizer, Dolby B, £150, Yamaha RB8, great drum machine, no manual but easy to use, hence £120 • Robin 01305 785675 after 6pm

FOSTEX X28H high-speed cassette 4-track, mint, boxed, manual, PSU, £265, Akai 4000DS quarter-inch stereo reel to reel, £96 • John 01604 767051 (Northampton)

FOSTEX X28M 4-track, mint condition, hardly used, £250 ono, Midiman Smartsync unit, never used, brand new, £60 • Steve 0121 588 2350 (West Midlands)

JBL CONTROL 1 monitors, perfect condition, still in box, hardly used, £60 • 0191 2711 456

JBL CONTROL 10 mid-field monitors, titanium tweeters, 12-inch woofers, 40Hz-20kHz frequency response, 300W, under four months old, too powerful for room, £700 • Mark 01274 611343

JL COOPER PPS100 MIDV/SMPTE synchroniser, £100 • Andrew 0181 678 1729

LEXICON LXP15 MKII, bought in error, days old, shop wouldn't refund, cost £795, sell for £679 ono, transferable warranty • 01302 538304

MACKIE CR1604 VLZ 16-channel mixer, latest model, including gooseneck, £799, Alessi RA100 power amplifier, £250 both, immaculate, only 3 months old, original warranties, £999 for both • 01952 260664

MM MP175 8.2 mixer, good for PA or recording, 4-band EQ, FX loop, analogue metering, stage box with 25m multicore, good condition, £175 • Stewart 01353 669854

MONICRAFT QUAD GATE, £50, Akai ME35T MIDI trigger, £175, Akai XE8 MIDI drum expander, £125, Akai S612 sampler, £125, all as new • Dave 01522 778229

PEAVEY LINEMIX 8 track mixer, £160, Peavey Classic 6060 tube rack power amp, £350, Digitech DSP16 rack delay/reverb, £160 • Tony 0171 207 0059

REVOX 877 2-track recorder, plus manual, remote, speed control, dust cover, NAB adaptors, excellent condition, £850 • Vic 01889 582652

ROLAND M240 24-input line mixer, £350 • 01426 209138 (paper)

ROLAND VS880 8-track hard disk workstation, with omega Zio drive, as new, with manuals, £1320, or VS880 on its own, £1200 • 01933 678608 (Northants)

SANSUI WSK1 6-track Dolby C portastudio with 8-channel mixer and integral mastering deck, plus Sansui MDR6 smart FSK sync and remote unit, £475 • Paul 01527 550135/541511

SECK 12.8.2 MIXER, 12 mic/line inputs, 8 group outputs, £395, Drawmer LX20 stereo compressor/limiter, £175, both in excellent condition • 0181 924 1101

SECK 18.8.2 mixer, low-noise power supply, switchable metering, good condition, £550 complete • 0181 9309413

SHURE headset mic, £110, Ultra metal flat pad, £25 • Carl 01507 606956

SONY 377 reel to reel recorder, little used, pristine, £400 ono • 0113 262 9160

SONY OPTICAL in/out lead, very rare lead for Sony portable DAT machines, never used, still under guarantee, £100 • 0191 271 1456

SONY DTC D7 DAT machine (portable), excellent condition, hardly used, £325 ono, Casio C25000 with good flight case, £90, no offers, 2x1Mb SMMs chips, 72pin, £20 • Nyles 01980 553719

SONY DTC D7 portable DAT, used twice only, boxed with manuals, with Sony 909 stereo mic, cost £595, sell £395 • 0113 268 0331

SONY DTC77 ES DAT machine with flightcase, perfect, offers, Drawmer DS210 nose gate, perfect condition, offers • Keith 01444 831504

SOUNDCRAFT 24:8:16 mixing desk, 42 channels on mxdwn, includes meter bridge

Nice looking! • Brad 01633 865758 eves, 01633 873118 office hours

SOUNDCRAFT SPIRIT 12:2 rack mixer, Spirit Absolute 2 monitors, both nearly new, home use, boxed, £450 • Eileen 01744 758883

SOUNDCRAFT SPIRIT Live 8.3, excellent condition, in expensive aluminium flightcase, cost, £900, accept £425 ono, Tascam MM1 keyboard mixer, 20.2, MIDI muting, excellent condition, £350 ono • 01226 714740

SOUNDCRAFT SPIRIT Studio, 16.8 16, immaculate, £1000, Fostex RB 8-track plus remote and loom, £850 ono, JL Cooper PPS100 SMPTE, £75, LA Audio 32 channel mutes plus loom, £300 All boxed • Steven 01273 565754/453671

SOUNDCRAFT SPIRIT ABSOLUTE 2 100W monitor loudspeakers, £225 • Sam 0121 778 3986

SOUNDCRAFT SPIRIT FOLIO10.2 with hard case, one year old, with PSU, box, manual, mint, £279 • Andy 01296 770259 eves

SOUNDCRAFT SPIRIT FOLIO RaPac mixer, ideal for live or studio, 28 inputs at mix, phantom power, 4-band EQ, direct outs on each channel, home use, excellent condition, £500 ono • 01268 511687

SOUNDCRAFT SPIRIT FOLIO 12.2 mixer, excellent, £275, Frontline 8.2 rack mixer, £75, Casio VZ10M synth, £250 All boxed with manuals, vgc • Harvey 01424 732599

SOUNDCRAFT SPIRIT FOLIO 12.2 mixing desk, as new, boxed, less than a year old, £225 • Richard 0171 250 3325

STUDIO UPGRADE, many items for sale, including Kurzweil K2000 keyboard, Allen & Heath G53 mixer, Sony DAT machine, effects and modules. Phone for prices and details • 0113 268 0331 (Sheffield)

STUDIOMASTER 16:2 SessionMix Desk, flightcased, line/mic inputs, direct outs, mid sweep EQ, 4 aux, mint with manual, £350 • Kevin 01773 606545

STUDIOMASTER MIXDOWN 16.4 8.2, £750, Alessi 1622, £420, Fostex DC100 plus MixTab MIDI mixer, £450 • Andrew 0181 678 1729

STUDIOMASTER PROLINE 16.8 16.2 mixer, excellent condition, home use, £600, Studiomaster Series 5 16 16.2 mixer, vgc, full working order, £450 • 0191 384 5389

STUDIO RESEARCH 16.2 mixer, 3-band EQ, 2 aux, phantom powering, immaculate condition, £300 ono • Sean 01371 876625 (Essex)

SWAP 3 Guitar FX, 2 Vestax Micro FX, Kawai S100F (not PI) monosynth, for Atan Stacy plus Midex +, or something interesting, or sell • Chrs 01235 534152 (Oxon)

TASCAM 3B half-inch 8-track, excellent condition, £750, Seck 16.8.2 mixing desk, old, needs a service, hence £200, or £875 for both • Rob 01442 391363

TASCAM 3B 8-track, superb condition, £800, 2 Tascam DX40 noise reduction units, 1755 each, Bose 802 Professional PA speakers, £825, Bose Controller, latest rackmountable version, £275, Tascam 22-2 reel to reel recorder, as new, £375, Sony DAT machine, £345, Peavey XR 600C 400-watt PA Amp, £805, Roland W30 workstation/sampler, £800, Roland DEPS digital effects processor, £250 • Paul 01603 487580 (Norfolk)

TASCAM 8516B 16-track, 1-inch, fully pro machine, inc remote, balanced line adaptor kit, trolley houses, dbx, deck, amps, etc, immaculate, superb sound, £2250 • 0117 951 4035

TASCAM 234 4-track, Yamaha F801 module, TEAC model 2A mixer Offers? • David 0171 209 5822

TASCAM 244 Portastudio with Tascam flightcase, good condition, £295 • Peter 01273 564286

TASCAM 464 4-track Portastudio with dbx, double and normal speed, 8-channel mixer, vgc, home use only, £390 • Tony 01222 236036

TASCAM 488 Portastudio, good condition with manual, £600, Kawai KC20 synth, velocity and MIDI, great sounds, £300 • 0171 438 0141

TASCAM 488 8-track, brand new, genuine reason for sale, £800 ono • 0121 745 4280

TASCAM 488 Portastudio, excellent condition, £600, no offers • Wayne 01254 202032 (Blackburn)

TASCAM 488 MKII and Philip Rees TS1, £750 for quick sale • Graham 0181 248 3424

TASCAM 488 MKII, 1 week old, brand new, in box, £800 ono. Selling because I bought a Fostex DMT • 0131 334 1577

TASCAM 644 Midistudio, boxed, vgc, £399, Akai SO1, 2Mb, 100 disks, £449, Yamaha DX7, ROMs, pedal, case, £249 • 0181 995 1977

TASCAM 688 8-track Midistudio, 20 inputs and meter bridge, MIDI muting, electronic scenes and routing, built-in sync, dbx noise reduction, mint condition, £795 • 01302 880975

TASCAM 688 8-track Midistudio, very little used, mint condition, any trial, £900 ono • Geoff 0115 933 5656 (Nottingham)

TASCAM 688 8-track Midistudio, pristine condition, boxed with manual, £1200, Shure SM58, £50, Alessi Quadverb, £150, Yamaha FX500, £125. All perfect condition and boxed with manuals • Paul 0181 518 8826

TASCAM 688 8-track Midistudio, full MIDI, two effects sends, 3-band EQ, built-in sync, electronic patchbay, excellent condition, boxed with manual • Matt 01423 536530

TASCAM DAB8 digital 8-track, flightcased mixer, 8-channel output mixer, timecode, remote control, 24-way jackfield, hardly used, £3250, A&H G53V 16-channel fully

automated mixer, £2500 • 01428 656178 (Haslemere)

TASCAM M2600 32 8.32 mixing desk, 8 aux, totally switchable EQ, 16 months old, boxed, immaculate, for quick sale £2700 ono • Nick 0181 330 1249 (Worcester Park)

TASCAM M3700 mixing desk, 24.8, fully automated, onboard disk drive, mint condition, leads included, cost £11,000 new, will reluctantly sell for £4500 ono • 0131 663 3248

TASCAM MM1 20.2 mixer, boxed, £345, Sony DTC555 DAT with remote, £295 • 01903 755840

TASCAM MM1 20-channel keyboard mixer with MIDI muting, perfect condition, in box, £400 ono, JBL Control 1 monitors, Alessi Microverb II, perfect condition, in box £120 both • 0191 271 1456

TASCAM MSR24 1-inch 24-track recorder, excellent condition, dbx noise reduction, less than 100 hours use, perfect heads, cleaned regularly, calibrated for Ampex 456, £2995 ono • Andy 01422 310879

TASCAM MSR245 with remote and trolley, very good condition, well maintained and cleaned, £3800 • Luke 01252 710244 (Surrey)

TASCAM MITS30 SMPTE box, MIDI-tape sync device, boxed, mint, no power adaptor, hence £90 • Sacha 01733 237748

TASCAM PORTA 07 plus mic, as new, £300 • Felix 0191 261 1255 before 6.30pm, 0191 226 1498 after (In East)

TASCAM PORTA 07 4-track recorder, manuals, box, etc, mint condition, £275 Buyer must collect • Bobby 0121 681 2662 (Birmingham)

TASCAM PORTA 07 4-track, mint condition, £260 • Henry 01695 570378 (Yorks)

TASCAM TR8 8-track half-inch tape machine and reel of Ampex 456, both unused, genuine reason for sale, boxed, manuals, immaculate condition, hence £1475 ono • Matt 01629 636572

TASCAM TR8 half-inch 8-track recorder with remote control, very little home use, mint condition, £1000 • Michael 0161 798 0581

TASCAM TR8, home use only, no mileage, box, manual and unused Ampex tapes, £875 • 01904 782350 (York)

TASCAM TR8, used once only! Three reels tape, adjustable trolley stand, remote control, ATSS50 SMPTE synchroniser and interface cable, £1600 the lot, may split • 0113 278 5446

TASCAM TR8, very good condition with manual, £900, no offers, M1/D50DD10 hard case, mint condition, £60 • Karm 0171 622 2760 after 12pm

TC 2240 parametric EQ/preamp, £350, Yamaha REV7, £350, Ure 7110 limiter/compressor, £200, Quadraverb x, £250 • Neil 0121 753 0171

TASCAM TR8 half-inch pro multitrack, dbx, full logic control, serial and dedicated ports, 8 in/out, varesped, pristine, boxed, manual, leads, £1300 • Rob 01255 762541

TASCAM TR8 half-inch 8-track tape machine with remote, mint, very little home use, boxed, manuals, £1000 • Michael 0161 798 0581

TEAC 80-8 pro half-inch 8-track recorder, dbx, pristine, recently aligned and serviced, £950 • Tim 01865 708787 (Oxford)

TEAC 144 4-track Portastudio, multitrack recorder with built-in mixer, manual, excellent condition and sound, £150 • John 01227 462059 (Canterbury)

TEAC A3300SX quarter-track reel to reel, twin speed, 10 5-inch reels, good condition but requires azimuth adjustment, £150 including tape • 01702 437777 (Southend)

TEAC A3340 4-track reel-to-reel with dbx-type noise reduction and remote control, excellent condition, top quality machine, £295 • 0171 254 5638

TEC X-2000D 3-track quarter-inch master recorder, immaculate condition, little home use, cost £1750 new, will accept, £1000 ono Will deliver • Andy 01511 336 6657

TECHNICS RS DC10 DCC deck, digital and analogue ins/outs, top spec, cost £750 new, accept £175 • Tim 0191 394 8360

XRI XR300 SMPTE synchroniser, very little use, £130 • Tony 01709 556274

YAMAHA MT3X 4-track cassette recorder, dual speed, £220, ART Multverb IT effects unit, £90 • Richard 01793 611017 (Swindon)

YAMAHA MT1205 4-track, boxed, manual, mint condition, 40Hz-18kHz, simultaneous 4-track recording, dbx, double or standard speed, graphic EQ, £265 • Dave 0191 372 2621 eves (Durham)

YAMAHA PROMIX 01 digital console, two available, as new, boxed with manuals, upgrading, £1375 each • Darren 0181 959 4659

YAMAHA SPX90, £180, Simmons 82, £150, MIDI Temp PMM88 8x8 MIDI Function Junction, £175, Roland D110 with Steinberg Editor, £200, selection of flightcases • Louis 0385 790997

ZOOM 9121, £250, Hammond organ, £50, Ibanez delay, £80, 20U rack, £30, AKG C253 mic, £80, Studiomaster Proline GLO 16.8 16, £600 Everything must go • John 01438 310139

SAMPLERS

AKAI DIGITAL IN/OUT board for S3000, record from CD, DAT, back-up, etc, £250 ono • 0171 351 5639

AKAI 5950, perfect condition, fully expanded,

manual, £750, no offers, Pair Yamaha N510M monitors, need new tweeters, £80 • 0181 594 7298 after 6pm

AKAI S1100, 10Mb, SCSI1 digital in-out, home use only, mint condition, £1495 • Bernard 01844 353904

AKAI S2000, 2Mb, disk library, as new, boxed, less than a year old, £650 • Richard 0171 250 3325

AKAI S2000, 6Mb, 6 months old, still guaranteed, home use only, £800, no offers • Adam 01993 850755

AKAI S3000XL plus effects, 3 months old, £2000, Apple PowerBook 5300 plus software, £1100 • James 0181 980 9262

AKAI S3000XL, 18Mb, EB16 effects, Syquest £2135 removable hard disk, plus 13 cartridges loaded with library, three months old • 0181 980 9262

AKAI S01, fully expanded, 32 seconds, 8 banks, as new, £450 ono • 01480 433488

CASIO FZ1 keyboard sampler, with memory expansion, box, manuals, library, £700 • Stephen 0181 549 6975

CASIO FZ1 with brand new disk drive, memory fully expanded, £575, Atari ST with 2Mb RAM but no monitor, only £100 • Guy 01903 700714, office hours

CASIO FZ1, flightcase, £550, Roland D110, £185, Yamaha F801, £85, Anatek MIDI Merge, £30 • 0121 603 7834

CASIO FZ10M, manuals, library, DOS editor, £650, Roland Juno 6, recently serviced by Roland, £160 • John 01269 831592

EMU EMAX II sampling keyboard, with SCSI, internal 420Mb hard disk, triple-speed CD-ROM, and entire Emu library on four CD-ROMs, 8 outs, FX returns, 16 track sequencer • 01484 865137

EMU EMAX II stereo sampler, 8Mb RAM, 350Mb hard drive, SCSI, 8 outs, £1300, Yamaha GC2020 stereo compressor £140, JBL Control 5 monitors, £250, Korg Wavestation SR, offers • Eddie 0181 248 3391

EMU EMAX II TURBO 16-bit stereo sampling keyboard, 8Mb RAM, 210Mb hard disk, resonant filters, excellent condition, £1475 ono • Paul 01527 550135/541511

EMU EMULATOR 3 keyboard, immaculate condition, Emu-approved service, custom flightcase, full system including optical drive and 1800Mb library, offers • Keith 01444 831504

EMU ES132 stereo sampler with SCSI and 730Mb hardrive, £1150, Akai S01 Sampler, £360 • Richard 0973 763925 (Leeds)

EMU ES132, new software, 2Mb RAM, box, manual, sound disks, excellent condition, £900 • 01235 768466

ENSONIQ EPS16+ sampler, full memory, 10 outputs, £600, Korg Poly 6 analogue, true VCOs, good condition, £250, Alessi ADAT, 760 hours, V4 03, £1300 • Nick 01942 494551

ENSONIQ EPS16+ sampling workstation, 16-bit sampler, 24-bit effects, 16-track sequencer, advanced synthesis, automated mixdown, fully serviced by Sound Technology Nov '95, large library, £750 • 01908 583621

ENSONIQ EPS16+ rack sampler with 50-disk library, £750, Kawai K1 rack module, £165, Roland D10 keyboard, £235 All boxed, as new • 01624 627213

ENSONIQ EPS 16+ with 100 disks, good condition, £700, Korg M1, £300 • Colin 01207 509258

ENSONIQ ASR10 stereo sampler workstation, excellent condition, under guarantee, 50-disks, manuals, keyboard, 24-bit DSP as used by Prodigy, Sharnan, LTI Bukem, etc, £1400 • Ben 01280 814385

ENSONIQ ASR10 keyboard sampler, 16-track sequencer, superb effects, 8 outputs, good condition, manuals and library, £1450 ono • Andrew 0161 286 6585

ENSONIQ ASR10 stereo sampling keyboard, with manuals and sound disks, boxed, as new, two months old, £1600 • Toby 01608 682224

ENSONIQ ASR10 sampler keyboard, 16Mb, 273 93 seconds sample time, 50 effects, 16-track sequencer, as new, boxed with manuals, £1800 ono • 01524 844394

ENSONIQ ASR10 sampler keyboard, sample disks, manuals, pedal, on-board sequencer, mint condition, £1300 ono • Luke 01707 336370/335686

KURZWEIL K2000 version 3 161, SMP-K sample option, FK-1 fan kit, 16Mb RAM, 290Mb hard disk, RMB-K daughter board, ROM 1 orchestral soundblock, P-RAM expansion, mint, boxed, offers • Chns 01563 533965

PEAVEY DPM-SP 16-bit sample player, £275 • Brian 01752 550199 afternoons (Plymouth)

PEAVEY SP + SX SAMPLER, 16-bit, 2 SCSI ports on each, good condition with manuals, disks, £450, SP alone, £300 • 01933 678608

PEAVEY SP/SX sampler, SCSI, filter, 16-note polyphonic, 2Mb, easily expandable to 32Mb with SMMs (30-pin), manual, power supplies, bargain at £399 • 01933 678608

ROLAND DJ70, fully expanded to 4Mb, £800, Boss DR660, £250, MC202, offers, Yamaha CS70M, offers, Mackie 1202, offers • Paul 01865 775073 after 6pm

ROLAND MKS100 sampler, DX200, swap both for one of these Korg EX8000, EX800, Roland D110, Roland CP40, KAR, or swap just DX100 for triple tier A-frame or RD22 • 01733 349882

ROLAND MS1 sampler, £300 • Dave 0171 624 1816

ROLAND MS

"These guys are good and made what could have been a minefield into an enjoyable experience"



Go on, enjoy yourself
Visit an ABC Store now.

Where Performance really does come First

Kingston

56-58 Surbiton Rd
Kingston
Surrey

Tel: 0181 546 9877

Windsor

196 St Leonards Rd
Windsor
Berkshire

Tel: 01753 773773

Oxford

44 St Clements
Oxford
Oxon

Tel: 01865 725221

Bristol

32 Alma Vale Road
Clifton
Bristol

Tel: 0117 923 8200

Exeter

68 Bartholomew St West
Exeter
Devon

Tel: 01392 425125

Education

Education House
Yate
BS17 4DZ

Tel: 01454 310300

ROCKBOTTOM
est. 1974 London • Los Angeles e-mail: multibox@rockbutt.demon.co.uk

68-70 London Road, West Croydon, Surrey CR02TB. Tel: 0181 681 0328 Fax: 0181 686 7259

FREE NEXT DAY DELIVERY ON GOODS OVER £50 (UK Mainland Only)

Some parts of Scotland & Wales will incorporate a surcharge. Phone for delivery details on Ireland and goods under £50

STUDIOMASTER

| | Deposit | Payment |
|-----------------------------------|---------|---------|
| Powerhouse Vision 8:2 350wx2..... | £113.40 | £42.52 |
| Powerhouse Horizon 600wx2..... | £163.80 | £61.42 |
| KMX Vision 350w 5PK pair..... | £69.80 | £26.17 |
| KMX Vision Bass SPK pair..... | £50.70 | £19.01 |
| Diamond Club 8:2 Mixer..... | £31.50 | £11.81 |

AC EURO

| | | |
|--------------------------------|--------|--------|
| AC112 12" 100 WATT Pair..... | £23.40 | £8.77 |
| AC153 15" 3 way 350w pair..... | £50.00 | £18.75 |
| AC112 PW Powered Wedge 100w.. | P.O.A. | |
| AC 112W unpowered wedge 100w.. | P.O.A. | |

YAMAHA

| | Deposit | Payment |
|-------------------------------------|---------|---------|
| QS 300 Dance Workstation..... | £119.90 | £44.96 |
| W7 Workstation Inc. Vint Board..... | £139.90 | £52.46 |
| P100 Digital Piano..... | £149.90 | £56.21 |
| MU50 Tone Module..... | £42.90 | £16.08 |
| QY300 Sequencer..... | £94.90 | £35.58 |
| QY22 Sequencer..... | £47.90 | £17.96 |
| FX550 Guitar FX/Studio..... | £34.90 | £13.08 |
| Promix 01..... | £119.90 | £74.96 |

PA CITY

| | Deposit | Payment |
|----------------------------------|---------|---------|
| PEAVEY P.O.A | | |
| Eurosys 1 pair..... | £28.90 | £10.83 |
| Eurosys 2 pair..... | £33.90 | £12.46 |
| Eurosys 3 pair..... | £53.90 | £20.21 |
| Eurosys 4 pair..... | £67.90 | £25.46 |
| Eurosys 6 pair..... | £65.00 | £24.37 |
| HI-SYS 1 pair..... | £69.80 | £26.17 |
| HI-SYS 2 pair..... | £113.80 | £42.67 |
| HI-SYS 3 pair..... | £29.45 | £11.04 |
| Eurosys 1 powered monitor..... | P.O.A. | |
| Eurosys 1 unpowered monitor..... | P.O.A. | |

POWER AMPS

| | | |
|-----------------------|---------|--------|
| PV4C 250W x 2..... | £42.90 | £16.08 |
| pV8 5C 550Wx2..... | £49.90 | £18.71 |
| PV1 3K 1000w x2..... | £64.90 | £24.33 |
| CS800x 400w x2..... | £64.90 | £24.33 |
| CS1000x 500w x2..... | £79.90 | £29.96 |
| CS120x 600w x2..... | £114.90 | £43.08 |
| DPC-750 375w x2..... | £76.90 | £28.83 |
| DPC-1000 500w x2..... | £94.90 | £35.58 |

MIXERS

| | | |
|-------------------------------|--------|--------|
| Unity 8:2..... | £33.90 | £12.71 |
| Unity 12:2..... | £51.90 | £19.46 |
| 6805 150w+150w 8:2 Mixer..... | £62.90 | £23.58 |

24 Months Interest Free Credit available.

Subject to status. written details available on request

CARLSBRO

| | Deposit | Payment |
|-----------------------------|---------|---------|
| Mixer Amp 150/6 Marlin..... | £36.90 | £13.83 |
| Mixer Amp 100/4 Cobra..... | £29.90 | £11.21 |
| Power Amp 600wx2..... | £68.90 | £25.83 |

SPEAKERS

| | | |
|-----------------------------------|--------|--------|
| Alpha 12 100w pair..... | £27.80 | £10.42 |
| Alpha 15 150w pair..... | £33.80 | £12.67 |
| Beta 112 300w pair..... | £49.80 | £18.67 |
| Delta Professional 300w pair..... | £91.80 | £34.42 |

KORG

| | Deposit | Payment |
|------------------------|---------|---------|
| Trinity..... | £239.50 | £89.81 |
| Trinity Plus..... | £279.50 | £104.93 |
| Prophecy..... | £99.90 | £37.46 |
| X3 Workstation..... | £129.90 | £48.71 |
| X5 Synth..... | £79.90 | £29.96 |
| X5D New..... | £89.90 | £33.71 |
| X5DR Synth Module..... | £67.50 | £25.31 |

Please call for best cash prices

MULTITRACKS

| | Deposit | Payment |
|--|---------|---------|
| YAMAHA MT50 4 Track..... | £39.90 | £14.96 |
| MT4X 4 Track..... | £55.90 | £20.79 |
| MT8X 8 Track..... | £127.50 | £47.81 |
| DIGITAL | | |
| Roland VS-830 inc HD FX Expansion..... | £210 | £78.75 |
| Fostex DMT6..... | £159.90 | £59.96 |

ROLAND

| | Deposit | Payment |
|--|---------|---------|
| XP-50 61-Key Synth Workstation..... | £149.90 | £56.20 |
| XP-10 Multi Timbral Synth (arpeggiator)..... | £59.90 | £22.40 |
| JV-1080 - Dance exp Board..... | £120.00 | £45.00 |
| A-90 88 Weighted Master Keyboard..... | £169.90 | £63.70 |
| MS-1 Micro Digital Sampler..... | £49.50 | £18.50 |

Lots of secondhand goods available

V2 1, £225, no offers. Akai SGO1V Vintage module, £245; Yamaha DX21 synth, £175; Yamaha PS551 keyboard, £125. Steve 01553 674076 (Norfolk).

ATARI STACY 4/40, excellent condition, £700. Paul 01527 500873.

BAND IN A BOX, Atari version 5, genuine disks and manuals, £45. Rod 01228 710001.

CAKEWALK Home Studio PC sequencer, £55; Powertracks Pro PC sequencer, £25; Soundblaster 16 soundcard, £45, all unregistered, boxed with manuals, price includes postage. 01706 250846.

C-LAB EXPORT MIDI expander for Atari, £50, also arranger and improviser software for Atari, offers. Chris 0181 748 4631.

COMPAQ DESKPRO 386/25 DX4, 4Mb RAM, 120Mb HDD, 1.2Mb FDD, keyboard, mouse, VGA colour, ex cond., £300. Replay MIDI sound card, £65, Midi-PC capture, £75. 01480 406413 (evenings).

COMPAQ PRESARIO 486 DX266, 8Mb RAM, 270Mb hard drive, full multimedia with MIDI interface. Cubase, Windows, DOS installed, interested in swaps or £750. Chris Ross 01703 491321.

DESKTOP MUSIC SYSTEMS: Korg AG101 GM1 module, Master Tracks Pro for IBM PC, boxed as new, manuals, cables, £450. Peter 0181 679 7983.

DESKTOP PC, 50MHz Multimedia Packard Bell, 4Mb, 340Mb hard drive, CD-ROM, 16-bit s/w, 1Mb Video Ram, 14-inch SVGA, Windows 3.11, Windows 95 with bundled software, boxed, excellent condition. £500 ono. 0115 9230 710.

DIGIDESIGN AUDIOMEDIA II for Nubus Mac, with software, £375; Korg Z3 Guitar synth, £220; Roland CM32 module, £70. Mari 01224 712174.

DIGIDESIGN AUDIOMEDIA II for Mac, £550; Cubase (Mac) v2.05, £450; Apple Mac Ix, 12Mb RAM/270Mb HD, CPU, only £550. Norman 01326 316829 (Cornwall).

DIGIDESIGN AUDIOMEDIA I/C for Mac with Sound Designer II software, boxed, as new, cost £750, bargain, £400. Graham 01483 751883 (Surrey).

DIGIDESIGN SESSION 8, Cubase Audio V3 FC, unopened, £1700; Millennium 16 ULAs, £350; Roland 5750, 18Mb, colour monitor, £1450; Jupiter 6, immaculate, flightcased, £800; Atari 1040 + monitor, £200. Wanted: PC1600, analogue bits n' bobs, MM8T, FX, etc. Brian 01268 559284.

DIGITAL ONLY CARD D PC card for digital transfer to and from DAT, £280; MXQ32M1 MIDI card, £120, both boxed, as new. George 0181 868 8187.

EMAGIC LOGIC sequencer for Atari, mint condition, complete package, dongle, MIDI ports, manuals, case and unregistered registration card, £200 ono. Matthew 0161 483 9551 (Manchester).

EMAGIC NOTATOR v3.21 for Atari, boxed with original, perfect, £75 ono. Matt 01932 765253 or 0385 223491 (SW London).

ENSONIQ EPS Atari ST sample editor, Eze by Gelco software, requires 1Mb Atari, onscreen sample waveform and synth parameter editing, cost £150, sell for £95 ono. Chris 0421 507144.

EMAGIC LOGIC 2.0, complete, £150. 01829 734227.

EMAGIC LOGIC AUDIO/AV for Mac, £550 on; £2 44Mb Syquest drive with four cartridges, £75 ono. Steve 0171 594 7523.

FEELING PARTNER, unique software (Atari), Peavey Spectrum Bass, Yamaha RX5, Sony 809 stereo mic, Sony camcorder outfit, Sony PCM7011 with/without Betamax Hi-Fi VCR, mint, 0113 268 0231.

GREYSKALE 520 STFM medium-res monitor, condition, sampling, discant word processing software, mouse, leads, game Swap for £150, drum/piano (SPD8), Simmons portakit, Drum Station, multi-effects, synth module, W.H.Y. Daniel 01889 583347.

HI-SOFT AURA 1216-bit sampler cartridge for Amiga 600/1200, boxed with manuals, vgc, £50 ono. 01684 893696 after 6pm, or 0402 181543 mobile.

HOLLIS TRACKMAN II 32-track sequencer for Atari, dongle, footswitch, manual, £30. Chris 0121 308 0769 (Birmingham).

HP DESKJET 520 printer, £190 ono. Jamie 01628 529832 (Manchester).

IBM/AST brand-new multimedia 486, 16Mb/16, 8Mb, 500HD, bundled software, Soundblaster card, SVGA monitor, Pentium upgradeable, 1-year on-site warranty, £675. 01484 647131.

MICRODEAL CONCERTO sequencing software for Atari ST, original, boxed, master disks hardly touched, loads of editing features, runs in hi or medium res, a bargain at £25. 01394 895239.

MICRODEAL STEREO REPLAY cartridge and Quartet, plus samplers, editors, drums, sequencer, MIDI Studio Master, other utilities and stuff for Atari ST/Ami, reasonable prices. 01480 406415, evenings.

MICRODEAL REPLAY 16 sampler for the Atari, £70. Stephen 0114 268 3208.

OPCODE MIDI TRANSLATOR II Mac interface, boxed, as new, £35; Studio monitors, Sysmaster 931, crystal clear sound, £180. 0191 273 8827.

OPCODE STUDIO VISION PRO Version 3.1, brand new, hard disk recording, powerful sequencer, £300 off retail price, yours for £500. 01825 724093.

OPCODE STUDIO VISION Pro 3.0 1, for Mac, latest version, offers. Sean 0171 424 0194.

PINNACLE RCD1000 recordable CD, Macintosh software, warranty until October, supports most CD formats including

Andre, but not Masterlist 1.2, hence sale at £650. Richard 0117 974 1153.

REMAPLE PROFESSIONAL for Windows, ultimate digital sample editor/audio files converter between virtually all formats of samples by major manufacturers. In original pack with manual, £70. 01438 715892 anytime (Herts).

SONY MAGNETO-OPTICAL drive, removable 600Mb cartridges, 6 available, £1500 the lot, flightcase for £2000, £50. Philips gem monitor, £50. 01453 731933.

SOUNDSCAPE for PC plus CD Writer, Tascam DA30 II DAT, Yamaha Promix 01 desk, patchbays, mic, stands, stageboxes, software, many extras, complete digital studio, £8000 ono. May split. 01821 642089.

STEINBERG AVALON 16-bit D/A stereo converter plus Avalon universal sample editor for Atari ST computers, with key and manual, cost £700, sell for £295. 0956 339577.

STEINBERG CUBASE v3.0 for Atari, £100, 20cm 9001 FX, £75. 01703 346855.

STEINBERG CUBASE LITE for Apple Macintosh, manual and song disk, £40. Danny 0113 274 3849.

STEINBERG CUBASE SCORE, new version 2.0, Windows, sound module, manuals, disks, still boxed, unwanted gift. Had the good luck to win same in competition, £300. 01332 512228.

STEINBERG CUBASE SCORE, latest version for Atari or Falcon, also Cubase v3.0, manuals and dongles for both, 0161 232 9300.

STEINBERG CUBASIS for PC, registered and guaranteed, cost £275, sell for £195. Robin 0171 737 6233.

STEINBERG CUBASIS v1.11, boxed with manuals, unregistered, offers. Must go. 01426 218014 (Warricksire).

STEINBERG CUBASIS for PC v1.13, educational edition, includes full program, tutorials, teachers' notes, £85 ono, inc postage. Jeremy 01904 700329 or email: downing@swynet.co.uk

STEINBERG CUBASIS AUDIO for PC, as new, boxed with manual and dongle, £140. 01422 500395 (Ives).

STEINBERG CUBASIS AUDIO for PC, unregistered, £150; AWE32 with 8Mb sample RAM, £200. 01638 743052 (Carnes).

STEINBERG CUBASIS PC, unwanted gift, cost £139, sell for £90. Adrian 01604 37077.

SEQUENCERS

BROTHER PDC100 pro disk composer, 32 tracks, disk drive, MIDI data filter, MIDI bulk data, £140. Fran 01708 553873.

ROLAND MCS0 MKII, brand new, boxed with manuals, £475. Mike 01367 240799.

ROLAND MSQ700 8-track MIDI DCB sequencer, £125 ono. Steve 01691 855019.

ROLAND TB303, original carry case, recently serviced, mint, £750 ono. Sequential Pro 1, recently serviced, boxed, excellent condition, £400 ono. Keith 01245 264417 daytime, 01376 513993 evening.

SEQUENTIAL MODEL 800 analogue sequencer, £300; Roland CSQ100 analogue sequencer, £100. Sean 0171 221 7274.

YAMAHA QX5FD sequencer, vgc, with 3.5-inch disk drive and manual, £130, Casio CS10P piano module, perfect, £60, Shure SM58 mic, perfect, with case, £75. 01256 488208.

YAMAHA QX21 sequencer, good condition, original manual, excellent ideas machine, £75 ono. Alan 01705 295289.

YAMAHA QY20 with padded case, power supply, boxed, with manuals, £230. Wayne 01254 202032 (Blackburn).

YAMAHA QY20, £310; Yamaha QY8, £120; Tascam Porta 07 4-track, boxed, £350; Yamaha DX7, £320; Korg M1, £740. Wanted: Roland MT1205. 01973 325822.

YAMAHA EMQ1 disk recorder, records sequences to 3-inch floppies, manual, £75. Tony 01579 382850 (Cullington).

DRUM MACHINES

BOSS DR660 drum machine, as new, boxed, less than a year old, £245. 0171 250 3325.

ROLAND RB drum machine with case and cards, immaculate, £300. 0117 924 9891.

ROLAND TR505, £45; Roland JS060 Sequencer for Juno 60, Jupiter 6, £35. Both boxed, manuals, excellent condition, prices include p&p. M. Sanders, Villa Nova, High Street, Godmishill, Q.W. PO38 3HJ.

ROLAND TR606 Drumatic, vgc, with manual, easy to use, will deliver, £90 ono. Darren 01270 766451, after 6pm.

ROLAND RB drum machine, vgc, with manual, £280 ono. Darren 01270 766451, after 6pm.

YAMAHA RX8 MIDI drum machine, many sounds, RAM card, £170 ono. Dan 01273 386672.

YAMAHA RX17 drum machine, manual, song book, £75. Doi 01562 825267 (Midlands).

YAMAHA RX17 drums, £250; Hughes & Kettner Crunch Master value guitar preamp, £50. Carl 01203 394737 (Midlands).

MISCELLANEOUS

1KW PA SYSTEM, includes mixing desk, reverb unit, 2 amps, 2 speakers, flight case,

£900 ono. Ian or Maria 01344 412358.

JL COOPER PF5100 synchroniser, excellent condition, £110 ono, Roland D110 multitrack sound module, good condition, £180 ono. 01792 267532 (Ayr).

KORG WAVESTATION Drums & Percussion Cards, WPC-02 and WPC-02, both for £28, Roland M16-C memory cartridges for JXR8 (3), £10 each or all for £25. 01274 620004 (Bradford).

LAWRY KD100 keyboard combo, 3 inputs, reverb, FX loop, line in/out, £200 ono. Andy 01203 683385.

PEAVEY E515 speakers with Peavey stage stands, speakers contain 15-inch units plus horn, stands are strong tubular aluminium and height adjustable, brand new condition, £325. 01952 260064 (Telford).

PEAVEY KB100 keyboard combo, £140; Phonic 31-band mono graphic equaliser, £65. John 01273 208992 (Brighton).

PHILIP REES MIDI synth converter, £30; Alexis Microgate, £40. 01902 20381.

RACKS, brand new, 12U high with locking doors, very sturdy, £40 each. Justin 01784 432385.

RAMSA SUBWOOFERS, 2 pairs, £325; PP System controller, £100. 01226 283487.

ROLAND GR707 guitar synth and GR300 synth unit, both excellent condition, £350, Quad voice micro blocks and preamp and tuner, £300. Andy 01222 493528.

ROLAND MIDI MIXER, 10 channels for controlling volume and pan via MIDI, like a desktop version of Cubase MIDI manager, ideal for live MIDI mixing, boxed, as new, £80. Ian 0161 232 1707 (Manchester).

SESSION ROCKETTE 30 guitar combo with reverb, overdive and MOSFET live sound circuitry, £100. Paul 01422 839631 (Halifax).

STOLEN: Akai CD3000, 10Mb, registration A94451366. Reward for information. 01372 468783 or 0956 910137.

YAMAHA EMX2300 powered desk, 12 channels, 2 aux, 15 internal effects, 9-band EQ, phantom power, 500 watts stereo, 4 outputs, portable, bought for £1700, sell £700 ono. 0181 300 5334 eves/0171 939 4858 days.

PERSONNEL

ATMOSPHERIC, original, melodic, imaginative, instrumental albums or tracks waiting for new age releases, all tapes listened to, SAE for return. Dream Machine Music, PO Box 84, Waterlooville, Hants PO8 0FX.

A&R AGENCY representing a wide range of dance labels/electronic artists with good quality demos, all dance/electronic genres welcome, send EPs, PO Box 10503, London N22 6TD. Replies guaranteed.

DANCE MUSIC required for newly forming record label. Send demos to Rabbit Records, Flat 4, 99 Cathedral Road, Pontcanna, Cardiff CF1 1PG.

DANCE PRODUCER/programmer, able to remix soul, house, drum 'n' bass, jungle, looking for work and other people with home studios. Danon 0955 139029.

DRUM 'N' BASS engineers/producer wants to hear from artists with good ideas to develop, produce and release projects. Kia 0973 563888.

ENGINEER seeks studio work in Britain or Europe (preferably Netherlands). HND qualified with grad studio experience, speaks proficient Dutch, major studios only please. (Kevin 01738 625554).

EXPANDING DANCE LABEL seeks new artists. Interested in most kinds of dance music. Send tape to: Homers House Records, 10 Moorwood Avenue, Housley Park 530 4WA.

EXPERIENCED ENGINEER/PROGRAMMER wanted for top North London studio for major remix work. Must be expert with Notator. Send CV to Andrew. 0171 722 9151.

EXPERIENCED SINGER songwriter in pop/dance, seeks programmer songwriter anywhere, to collaborate on songs. Influences: M People to Erasure. Mark 01904 794183 (Manchester).

EXCLUSIVE RECORDINGS are currently seeking demos from artists, singers and producers in the fields of house and garage. Send to: Expensive Recordings, PO Box 1032, Sheffield S6 6YR.

FEMALE SINGER required for dance group. Must be keen and dedicated. We have songs written, so songwriting is not important. Mark 0161 969 4529.

FEMALE SINGER/SONGWRITER needed for East London production team, currently producing with Japanese major label. All aspects of dance music. Only serious vocalists please. (Scott 0181 520 5646).

FEMALE VOCALIST required for various dance projects, must have attitude and some musical ability to sing and collaborate on future chart/club hits. Leeds. 0115 294 5649.

FLYTRAPP RECORDS need fantastic dance music. If you have some, please send it to: Flytrapp Records, 20 Churchward Drive, Prome, Somerset BA11 2XL.

KEYBOARDIST with gear seeks DJ/programmer/collaborators with view to live sets in club/house/dance, Cambs/Essex area. Don't waste time, let's have some fun! 01799 527352.

KEYBOARDIST/PROGRAMMER wanted for forward-looking dance act, loads of ideas,

strong material, many influences. Pete 0181 299 6009.

MANAGER/PROMOTER wanted for a songwriter/performer who has a range of killer tunes from garage, house, R'n'B, lovers, regga, jungle. Must have contacts and resources, no time-wasters. Keny 0973 128347 or 0956 189284.

NEW LABEL requires the deepest of house demos, Carry Heard-style beats required. Send demos to Dispatch, 38 Willow Dene Close, Ashley, New Milton, Hants, BH25 5BX.

PRODUCER WITH STUDIO seeks socialists/groups for UK/US collaborations in R+B dance. Must travel to Salisbury. Yank with industry contacts needs acts. Steve 01722 500 855.

PRODUCER WITH CHART SUCCESS seeks songwriters with commercial material to set up chart-storming company. Good technical knowledge and ability to work under pressure essential. 01379 853982.

RECORD LABEL requires hot house/dance tracks, vocal and instrumental. Send tapes and SAE to Bang Records, PO Box 8999, London, N7 0DF.

SUCCESSFUL dance production team based in Crouch End, North London, require talented female singers for session work or collaborations. Various major and unlabelled projects. Simon or Tom 0181 342 9014.

TRANSMISSION recordings requires innovative talent, trance/techno/house, etc. Send demo and info to Transmission Recordings, PO Box 4314 6202 VA Maastricht (The Netherlands). Enclose IRC for sum reply.

VOCALIST wanted by keyboard player/arranger, influences must include Ferry, Bowie, Sylvian. Chris 0181 998 4249.

WANTED

BAND IN A BOX STYLES DISK version 6, especially Jazz styles. Simon 01792 422116 (Swansea).

BSS MICRORACK RAD10 19-inch rack shelf (2 required) or BMR5 micro rack unit. Cash waiting for right price. 01354 695239.

BSS DE200 rack ears wanted: are there any left anywhere? Cash waiting for right price. 01354 695239.

BSS DPR 502 noisegate wanted, cash waiting. 0181 883 4329 or 0956 339577.

BIT 99, White Charted MS800, PG800. Gordon 01670 523362.

CAKEWALK PROFESSIONAL version 3, original disks and manual. Jim 01563 527786.

CASIO MG510 MIDI pickup wanted, cash waiting. David 0141 954 0802 (Glasgow).

CIRCUIT DIAGRAMS, etc., for home construction of modular analogue synths (with components that are still available?). 0131 6613383.

CUBASE V3.01 for Atari 1040 STE, original copy, must have manuals. Steve 0181 886 6357 after 7pm.

DBX NOISE REDUCTION, two or four track, prefer TEAC DA28 or RA9. Cash paid. John 01297 489259.

DEEP BASS 9, will pay about £200. Steve 01293 510946.

DIGITECH VOCALIST 2, cash waiting. Also wanted: expansion boards for K2500. Paul 01302 538304 (Doncaster).

DRAWMER DS201 gates, DL2LH compressor, SMSL remote + autolocate suitable for Tascam MS16, AKG C3000, NS1016s, Digitech Vocalist II, any half-centred reverb/multi-effects, cash waiting. 01270 663405 eves.

EMS DK1 CRICKLEWOOD keyboard for VC53. Must be excellent condition. 01274 620004 (Bradford).

EMU ESI SAMPLER, Kenton Pro2 MIDI-CV converter, Roland System 100M modules. James 01484 265137 (W. Yorks).

ENSONIQ EPS/EPS16+ keyboard, upgraded memory, separate outputs and service history if possible, also Casio VZ10M, cash waiting, sensible prices please. Enrico 01702 341755.

EPS 4X MEMORY expansion with SCSI. Cash waiting. Alvin 01926 435056.

EVENTIDE Phaser/Omnipressor/Harmoniser, working or not, but must be cheap. Also manuals for Phaser/Omnipressor, Boss DC2 pedal, X-or iMac/Uniqsyn software. 0181 692 8129.

FOSTEX X15 remote foot control required, model 3063, two needed. 01255 221576 (Newmarket).

GERMAN MUSICIAN pays for TB303, £500; TR808, £290; TR808 MIDI, £350; TR909, £500; SH101, £150; MC202, £150; call or fax me. 0049 5152 616767/0049 5152 8179 fax.

HAMMOND B3 for enthusiast, cash waiting, can collect anywhere, any condition considered. 01977 557560.

HELP! I need a copy of MIDI Sequencing in C, by Jim Conger out of print book? Buy or borrow? Good price/all costs paid. Pete 0161 248 6616.

JL COOPER DATASYNC for ADAT, also Atari editor/librarians for Proteus 2.0 and Quadriver GT. Paul 01905 610794.

KORG PROPHECY, MIDI data filter. Jonny 0171 740 6220.

MAGAZINES WANTED for research USA, keyboard, Electronic Musician, music and computers. UK/G6. Audiomedia, EMM/MT, IMRW, Sound International, other similar

publications, including European. Noel 0191 528 2813 (Sunderland).

MANUALS: YAMAHA RXK50 and Chetah M550 controller keyboard, photocopies will do, cash waiting for Breakthrough sequencer 2. Plus, Atari version wanted, Akai S950 sampler. Paul 01604 646173.

MANUAL FOR EMU ES132 V2.1 software upgrade. Richard 01305 782554, after 5.30.

M60 CART for 70, realistic price paid. Leo 0161 445 5975.

MIDI PROGRAMMING IN C book by Jim Conger. Steve 0121 458 3183 weekends, 0976 249437 anytime.

PEAVEY control voltage volume pedal or equivalent for DPM355+. 0161 724 7995.

ROLAND CM64 module. Paul 01905 610794.

ROLAND D70 Sound cards, PCM, RAM, pre-fader Solo, original including M256E, SN-SPLA, SN-U110, PN-D70. Malcolm 01242 528241.

ROLAND JUPITER 8, swap for TB303 Bassline with manual and PSU, must be mint condition as mine is, no other offers accepted. Mark 01734 869700.

ROLAND JV1080. Dale 0161 872 9064.

ROLAND JV1080, Korg WaveStation keyboard. Rob 01273 555772 (Brighton).

ROLAND JV1080 EXPANSION board, 'Worid', wanted. Kevin 01208 873649 anytime.

ROLAND JV90 expansion boards wanted. Eddy 01928 365916.

ROLAND JXR8 with PG800 programmer, cash waiting for right price. 01843 58709

TURNKEY'S LOWEST PRICES GUARANTEED*

2 Tracks

SONY TCD08

LIMITED STOCKS

Turnkey bring you the first stocks of Sony's brand new portable, the TCD-08. Sturdily built with a back-lit display, the unit features 48 x 44 1 kHz recording. Initial supplies will be very limited, please now to reserve yours. The ultimate Walkman!

NEW PRODUCT
RRP £599
NEW BOXED

SONY DTC790

DAT PRICE CRASH

We have exclusively secured a small supply of the Sony DTC790 to bring you the cheapest full size DAT machine on the market, but this is not at the expense of features. S/PDIF coaxial input and optical in and out, digital and analog recording at all three sampling rates (32 kHz, 44.1 kHz, 48 kHz), as well as all the usual iFD functions and a full function infra red remote control. Also available with Digicon SCMS stripper for only £599. Another DAT exclusive from Turnkey.

SCOOP
RRP £699
£499
NEW BOXED

PHILLIPS DCC951

DCC now has 18 bit sampling at 48 kHz with advanced data reduction techniques. The DCC951 is a full-size machine in a sturdy built case. It features Philips new Turbo drive high speed mechanism, title recording, full indexing & location facilities, S/PDIF in and out, full remote, plays analog cassettes with Dolby B & C noise reduction, auto-level optimisation and microphone input. Portable DCC951 also available at £249. Unbelievable deals exclusive to Turnkey. Sound-on-Sound only.

RRP £349
£249
NEW BOXED

"Digital compression makes little or no subjective difference to the recorded result. In fact recordings sound indistinguishably similar to DAT.... Check one out today!"

Mixers

SOUNDRAFT SPIRIT STUDIO

OUTSTANDING OFFER ON 16 or 24 CHANNEL DESKS

Almost everyone involved in music production at some stage dreams of owning a Soundcraft console. The legendary sound quality, reliability and ease-of-use, means that a Soundcraft equipped studio must be taken seriously. The SPIRIT STUDIO range represents a minor miracle produced in Britain using the world's most advanced production technology and revolutionary manufacturing techniques to bring you Soundcraft quality at a previously unimaginable price!

Just take a look at the spec: 16 or 24 channels (inline providing 40 or 54 inputs at midroom), legendary EQ, 4 bands with 2 inseparable mids and shelving high and low bands, parametric EQ pre-amp with individually switchable phantom powering, 6 true auxiliaries etc. etc.

With top artists like PJ people and Portishead joining the impressive list of users, there's no reason to miss this unrepeatable opportunity to invest in one of the few pieces of music technology that has really made a difference.

RRP £1499
£1189
NEW BOXED

RRP £1999
£1589
NEW BOXED

GS-1

by Allen & Heath

INCREDIBLE amount of mixer for your money! The GS1 not only has 8 buses, up to 32 inputs and MIDI mixing, but the price even includes the master bridge! Three band EQ with a mid sweep, MIDI Machine control and MIDI learning abilities, XLR mic inputs which can double as balanced line inputs, 8x length AEs faders and PFL. A good clean signal path can be taken for ground from Allen & Heath, but a continued supply of GS1's at this price can't order now to avoid disappointment!

RRP £1174
£699
NEW BOXED

Guitars

YAMAHA

PAC 112 Pacifica

LOWEST PRICE EVER

PRICE CRASH
RRP £350
£159
NEW BOXED

The Yamaha PAC112 was voted Number One budget guitar for the past two years. Massive build purchase makes this unbelievable value for money. Order now to avoid disappointment!

ZOOM

FX PEDAL BOARD

RRP £379
£239
NEW BOXED

NEW, USED & EX DEMO

| | | | |
|-------------------|--------|-----------------|--------|
| Arbiter Intranale | £ 49 | Sony DTC690 | £ 469 |
| Demon DCC015 | £ 149 | Sony DTC790 | £ 469 |
| Demon DCC025 | £ 199 | Sony DTC790 | £ 499 |
| Demon DCC0715 | £ 234 | Sony DTC790 | £ 849 |
| Demon DTC790R | £ 530 | Sony DTC790 | £ 479 |
| Demon DTK | £ 47 | Sony DTC790 | £ 399 |
| Fostex D10 | £ 249 | Sony DTC790 | £ 299 |
| Fostex D5 | £ 175 | Sony DTC790 | £ 439 |
| Marantz PMD320 | £ 434 | Sony WHD5C | £ 299 |
| Marantz PMD321 | £ 511 | Tascam 102H8L | £ 279 |
| Marantz PMD502 | £ 499 | Tascam 112H8L | £ 599 |
| Marantz PMD510 | £ 704 | Tascam 202H8L | £ 349 |
| Parametric SV1700 | £ 1444 | Tascam CD-01H8L | £ 739 |
| Parametric SV4100 | £ 2379 | Tascam DA30 | £ 594 |
| Philips DCC170 | £ 249 | Tascam DA30H9L | £ 199 |
| Philips DCC951 | £ 280 | Tascam DA60 | £ 443 |
| Ronco B77 | £ 249 | Tascam DAP1 | £ 1349 |
| Sony DTC100E25 | £ 549 | Tascam SYD | £ 594 |
| Sony DTC690 | £ 549 | TEAC VT35 | £ 190 |
| Sony DTC695 | £ 599 | TEAC W416 | £ 190 |

FOSTEX D5

DAT PRICE CRASH

Exclusive scoop purchase on a genuine professional machine brings quality within reach of the rest of us. Now that Sony's domestic machines are discontinued, this is one of the cheapest DATs around, but just look at the spec: 19" rackmount, 44.1 kHz analog recording, SCMS-free operation, error detection indicators, balanced ins and outs on XLRs, AES/EBU professional digital connections as well as all the usual DAT features from the makers of the industry standard D108 timeside machine. Huge reduction!

RRP £1299
£869
NEW BOXED

TASCAM DA20

19" RACK DAT

If you need a 19" rack mount DAT machine, they don't come any cheaper than this! But that's not at the expense of a quality machine: reliable try-loading mechanism, the SCMS is switchable in or out. Both analog and digital recording at all 3 sample rates and coaxial S/PDIF in and out. High sound quality is guaranteed by 1-bit DAC playback. Special Table-of-Contents feature.

RRP £799
£679
NEW BOXED

SPIRIT FOLIO

Small mixers by Soundcraft

AVAILABLE IN 10 or 12 CHANNELS

3 band mid-sweep EQ, 2 auxiliaries (1 switchable pre/post) professional grade Neutrik connectors, superb clean signal path and compactness make them unbeatable value for money, phone for unbeatable price!

NEW, USED & EX DEMO

| | | | |
|--------------------------|--------|-----------------|-------|
| Alaska MATICA500 | £ 499 | JBL M330PHK | £ 94 |
| Alaska MATICA900 | £ 649 | JBL M330PHK | £ 84 |
| Alcon Powerbase 16 | £ 499 | JBL M330PHK | £ 84 |
| Bose 502 | £ 1215 | JBL M330PHK | £ 84 |
| Boose 502P | £ 1399 | JBL M330PHK | £ 84 |
| Boose 502P | £ 1399 | JBL M330PHK | £ 84 |
| Boose 502P | £ 1399 | JBL M330PHK | £ 84 |
| C Audio RA3001 | £ 1299 | Puavey CS800X | £ 569 |
| C Audio ST400 | £ 699 | Puavey CS800X | £ 649 |
| Dynarec DPA400 | £ 199 | Puavey EUCOS1PM | £ 180 |
| Dynarec Spira Control 19 | £ 999 | Puavey EUCOS1PM | £ 180 |
| EV 3200XEQ | £ 349 | Puavey EUCOS1PM | £ 225 |
| Fender 110ELC | £ 129 | Puavey H85T-DCT | £ 350 |
| Fender 110ELC | £ 146 | Sabine SB 610 | £ 327 |
| Fender 8520PD | £ 800 | Sabine SB 610 | £ 327 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender 110ELC | £ 129 | Sarama SB | £ 549 |
| Fender 110ELC | £ 146 | Sarama SB | £ 549 |
| Fender 8520PD | £ 800 | Sarama SB | £ 549 |
| Fender ESP3400 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |
| Fender ESP3402 | £ 499 | Sarama SB | £ 549 |

SUBSCRIBE & WIN

488 MkII prize kindly donated by TASCAM UK Ltd. Tel: 01923 819630

TASCAM 488 MkII

8-Track Recording Studio

The advanced features and performance of the TASCAM 488 MkII take 8-track cassette multitrack to the professional level. The 488 MkII's mixer features 12 inputs and 4 group busses so you can handle a wide range of live or line-level sources, while features like balanced XLR mic inputs and built-in phantom power for high quality condenser microphones let you take advantage of pro recording equipment and techniques for outstanding sound. There's 3-band EQ with

sweepable midrange control on all mono input channels for precision response shaping, and two independent effect sends for external signal processing flexibility. The 488 MkII is also designed specifically for smooth integration into MIDI-based music systems.

The recorder section delivers solid reliability and faultless tape handling with the same mechanism and Hysteresis Tension Servo Control system used in TASCAM's 122 MkIII professional cassette deck. The recorder runs at 9.5 cm/sec. and features built-in dbx noise reduction

for high sound quality and low noise. Precision automatic punch-in/out with a rehearsal mode and three auto-locate points allows fast, efficient recording. To enter, all you have to do is subscribe to *Sound On Sound*, answer the tie-breaker question, fill in the form below and return it to us by the closing date of 30 September 1996.

Existing subscriptions expiring within the competition eligibility period are also entitled to enter. When you receive your Renewal Notice, just attach your answer to the competition question on a separate piece of paper, or use the application form below.

Subscription Rates — 12 issues: UK £ 35; Europe £ 50; World £ 65.

What name would you give to an 8-track digital portastudio?

Name.....
 Address.....
 Postcode..... (UK subscribers must include their full postcode)
 Signature.....
 Daytime Tel No.....

Please send a Cheque or Postal Order made payable to 'Sound On Sound Ltd' or pay by Visa/Access/Switch/AmEx/Mastercard.

All overseas payments must be in Pounds Sterling drawn on a British bank.



Card No:

Card Expiry Date: Switch Issue No:

Closing Date for entries
30 September 1996

RULES: 1. This one entry per subscriber is permitted. 2. Employees of TASCAM UK Ltd and Sound On Sound Ltd are ineligible for entry. 3. No cash alternative is available in lieu of prize. 4. The competition organisers reserve the right to change the specification of the prize offered. 5. The judges' decision is final and irrevocable, and no correspondence will be entertained. ES/CL

All a valued SOS subscriber you not only save on postage but are also entitled to a 10% discount on all SOS Mail Order books, automatic entry into the next twelve months' Subscription Prize Draws, plus Subscriber Special Offers.

Post to: SOS Subscriptions Dept., Media House, Burrell Road, St. Ives, Cambridgeshire, PE17 4LE, England.

Anatek Pocket Products to

At SOS, we have regularly found ourselves referring readers to one or other of the Anatek Pocket range of MIDI accessories to solve their all too common MIDI interconnection and transmission problems. Trouble was, Pocket Products were previously hard to find... until now!

POCKET SYNC

- *Smart* FSK Tape-to-MIDI synchroniser • Starts anywhere in song • MIDI In to Out merging • Automatic read/write switching • Jam Sync protects against tape dropouts • Records tempo changes • MIDI and FSK status LEDs

POCKET SYNC is the way to expand the capabilities of any multitrack studio. No longer is it necessary to allocate more than one tape track for sequenced parts. Now, shuttling to different points in the song is quick and effortless. POCKET SYNC writes a special FSK sync tone on one track of tape that is converted to MIDI Clock and Song Position Pointer on playback. Merging of data from the MIDI input to the output allows new sequencer tracks to be added while remaining synchronised to tape.

Automatic switching between write (recording FSK) and read (playback FSK) cuts downs on confusing switches and buttons. Tape oxide dropouts are no longer a problem with POCKET SYNC's variable dropout protection. The sequencer can continue playing over a dropout for a short time, even if FSK code is completely lost!

Order Code: PP003 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET MAC

- Economical Macintosh MIDI interface • No external power supply required • 1 MIDI In, 2 MIDI Outs • LEDs indicate MIDI In/Out data • Uses serial or modem port • High speed CMOS design • Improves signal to minimise data errors.

POCKET MAC opens up a whole new world of MIDI programs for the Macintosh computer user. With many Macintosh programs simultaneously supporting both the serial port and the modem port, one POCKET MAC could be connected to each allowing access to twice as many MIDI devices.

Order Code: PP004 **£39 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET CURVE

- Modifies MIDI velocity response • Controls keyboard sensitivity • 6 tapered curves • 6 velocity increase curves • 6 velocity decrease curves • 6 constant levels • Special DX7 velocity curve

POCKET CURVE is a necessity for master keyboards that require velocity scaling control. With it, a keyboard's response to harder or softer playing styles can be modified to suit the player and their MIDI setup. DX7 owners can especially benefit from POCKET CURVE! A special curve is available to boost the DX7's low velocity output, so that missing dynamic potential can be recovered. Use POCKET CURVE to allow a lighter touch during performance on a heavily weighted keyboard controller. For ease of programming, a quick reference to the many curve possibilities is permanently printed on the sides of the unit.

Order Code: PP005 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

LONG DISTANCE MIDI

- Enables extra-long MIDI cable runs • Easy to connect to existing 3 conductor wiring • 4,000 feet capability • Balanced XLR connectors • Dual transceivers allow 2-way MIDI communication • Handy data input and output LEDs confirm presence of MIDI signal

The problem with MIDI is that you are likely to encounter data errors when running more than 50 feet of MIDI cable. These can be embarrassing errors such as hung notes, mysterious program changes or worse in the middle of a performance.

The cost-effective solution is MIDIMATCH by Anatek. Two identical units convert MIDI data to balanced signals that can be transmitted through up to 4,000 feet of

cable. The balanced MIDI signal is virtually immune to the problems that have previously plagued studio owners and sound contractors over long MIDI runs.

MIDIMATCH works through ordinary balanced microphone cable so you can connect keyboard controllers to MIDI sequencers or lighting controllers to dimmer packs through your existing snake! Studios already wired for audio can connect MIDI through the cabling already in place. MIDI signals could even be run through a balanced patchbay!

The price includes transmitter and receiver. (Please note: requires two 9V AC adaptors.)

Order Code: PP001 **£115 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET MAPPER

- Remaps MIDI controllers • Maps Pitch Bend to Aftertouch • 'Set and forget' programming • Supports 15 controllers • Allows unconventional routings • Updates older keyboards.

POCKET MAPPER allows modulation routings to be customised to suit a particular need. Controller data such as Pitch Bend, Aftertouch, Breath Control and others is received and can be retransmitted as a different controller. For instance, DX7 Breath Control modulation can be rerouted to MIDI Volume to modulate synths that do not accept Breath Control. POCKET MAPPER is the most convenient and cost effective way of rerouting MIDI modulation. Now, MIDI wind instruments can remap mouthpiece Breath Control to Aftertouch quickly and easily.

Order Code: PP006 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET MERGE

- Merges 2 MIDI signals into 1 • Handles System Exclusive • Merges on all 16 MIDI channels • Merges Clock and MIDI Time Code • Merges all controllers • Handles large volumes of data • Stackable for 3 or more inputs

POCKET MERGE is an essential tool for sequencing or live use. Operating as a 2-In, 1-Out MIDI Merger, several Pocket Merges can be stacked to merge more than 2 inputs. Now any controller can be a 'master'. In live setups, POCKET MERGE allows any two controllers (keyboard, drum pads, guitar synth, etc) to share a sampler or sound module. Use one keyboard as a master, while using a favourite pitch bender from another, or combine two keyboards for a multi-tiered, organ-style controller. In the studio, POCKET MERGE is a must for sample dump editors, allowing a keyboard and a computer to be connected to the sampler at the same time. POCKET MERGE handles data very quickly, making buffer overflows a thing of the past.

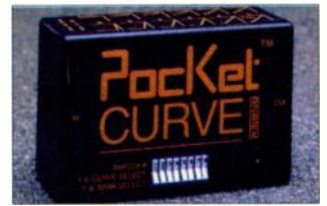
Order Code: PP007 **£59 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET FILTER

- Filter on all MIDI channels • Filter controllers, System Exclusive and real-time data • Combine data types/channels • DIP switch selectable filtering • Select channel from any keyboard • Filter all data on selected channels

POCKET FILTER is a vital tool for problematic setups. With MIDI data becoming increasingly complex, POCKET FILTER can unclog the MIDI data stream, sending only the most useful info. Use it to remove unwanted clock messages or System Exclusive data or memory-intensive aftertouch and controller information. POCKET FILTER frees-up unused MIDI Channels from multitimbral synths, making them available for other modules. In addition, it can be used to channelise older synths that only receive in Omni mode.

Order Code: PP008 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95



solve your MIDI headaches!



USE YOUR YAMAHA BREATH CONTROLLER WITH NEARLY ANY MIDI SYNTH!

Anatek's WIND MACHINE and your Yamaha BCI or BC2 Breath Controller (not provided) will add woodwind-like expression to keyboard performances. Brass patches can punctuate or pad according to your whim, not to some pre-programmed attack setting. Sax solos will turn heads with their authenticity. And layered string sounds can fade in precisely where they're needed, while your hands and feet are free to control wheels and pedals. (Will not work with Yamaha WX711.)

Compatible with everything, WIND MACHINE interfaces to Korg, Roland, Yamaha, Ensoniq and the rest! No longer are you forced to use your Yamaha breath controller with only one brand of MIDI synth. Any MIDI keyboard that will respond to MIDI Volume, Aftertouch, Modulation, Breath Control, Pitch Bend, Expression, Foot Controller, or Pan can be controlled via your breath controller and WIND MACHINE.

Blowing into a mouthpiece is the most natural way to enhance keyboard performance. Wind instruments have been designed around this principle for centuries. Alone, keyboard Aftertouch isn't as effective because when you release the keys, the effect goes away. Modulation and Pitch wheels alone aren't as effective because they don't allow you to play chords. But when combined with WIND MACHINE, all of these can be used to create vastly improved expression capability.

A flexible input/output configuration means that WIND MACHINE can fit seamlessly into any setup. The simplest way is to use it to send control signals to the MIDI In of a keyboard synthesizer. If the MIDI setup involves a master keyboard and external modules, WIND MACHINE can combine incoming signals from the master with its control signals and then pass them on to a sequencer or sound modules. WIND MACHINE can transmit the most popular



control parameters to keep it simple. Most MIDI keyboards respond to Modulation, Aftertouch or Volume so you won't have any problem finding one compatible with your synth. Any one of the 16 MIDI channels can be selected as well. All control parameters are set by switches on the lid that retain settings even when power is disconnected.

Order Code: PP002 **£85 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET PEDAL

- Sends on multiple MIDI channels • Supports 1 continuous controller • Supports 1 momentary footswitch • Sends pitch-bend, modulation, portamento time, and MIDI Volume • Sends sustain, portamento on/off, susenuto, and start/stop • Auto pedal/footswitch calibration • Forward/Reverse pedal operation • 3 mode pitch-bend operation • Combine data types

POCKET PEDAL is an indispensable controller for the performing musician. Use it with an ordinary volume pedal and footswitch to send MIDI volume, modulation, and sustain controls on all 16 MIDI channels simultaneously. For owners of multi-effects processors, POCKET PEDAL provides a convenient cost-effective way of providing dynamic control over effects parameters. It is also a handy controller for automated mixdowns, converting any resistive input into MIDI Controller messages for VCAs. Connect a photocell to POCKET PEDAL and control MIDI parameters with a light source!

Order Code: PP009 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POWER PACK

- 'Phantom' powers all Pocket Products • Functions in-line with MIDI signal • Powered by most AC adaptors • Automatic polarity switching • Fully regulated supply • Passes all MIDI data

POWER PACK provides power to Pocket Products in instances where upstream devices from other manufacturers have neglected to meet MIDI specifications, or in any instance where power is unavailable. POWER PACK can be placed anywhere in the MIDI chain and accepts power from a standard AC adaptor (not included). It provides additional power when more than 4 Pocket Products are used in a row or allows POCKET PEDAL and POCKET FILTER to retain their channel settings when the master device is turned off. What's more, POWER PACK can be used to boost the MIDI signal and extend the maximum distance between two devices.

Order Code: PP012 **£29 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET SPLIT

- 8-Zone Keyboard Splitter • Range from 1 to 127 notes • Fixed boundaries • MIDI Channel/Zone assignment • Footswitch controllable • Floating split point

POCKET SPLIT is an 8-zone keyboard splitter. Each zone has its own MIDI Channel, and has a range of 1 to 127 keys wide. Zone boundaries can be set for hard or soft (overlap or splits). Use POCKET SPLIT to maximise the performance of your master keyboard, or create interesting performance possibilities with your guitar controller. An added feature is an 'intelligent' 2-way floating split that automatically tracks the keyboard player's left and right hands. Now any MIDI device can have the features of a sophisticated MIDI controller at a fraction of the cost!

Order Code: PP013 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET TRANSPOSE

- In-line 16 Channel transposer • +/- 5 Octave transposed range • Switch between normal and transposed modes • Separate intervals for each channel • Transpose key signature and octave simultaneously • All non-transposed MIDI data is passed • Harmonisation mode • Footswitch controllable.

POCKET TRANSPOSE is a performance-orientated transposer that supports separate transpose intervals for each MIDI channel. Although many keyboards have a transpose function, it's usually too cumbersome for live use. POCKET TRANSPOSE makes transposing easy. Intervals can be set while playing, and the user can select the normal or the transposed setting from a footswitch. Guitar synth players can use the POCKET TRANSPOSE to set intervals on 6 separate MIDI channels, or use it to transpose all strings by a certain amount. POCKET TRANSPOSE provides an easy way to try different arrangements without altering sequencer data. You can even set it so that the drum machine channel remains intact.

Order Code: PP011 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET CHANNEL

- Remaps Receive channel • Remaps Transmit channel • Sends multiple MIDI channels • Velocity-switch mode • Footswitch controllable

POCKET CHANNEL takes data from any MIDI channel and remaps it on to one, several, or all 16 MIDI channels. Up to 16 different channel assignments are possible. A unique velocity-switch feature allows automatic switching between two different sound modules depending on the key velocity. Use POCKET CHANNEL to organise channel assignments for a multitimbral sound module, or send a controller's output to two or more MIDI channels. With POCKET CHANNEL, for example, two drum machines or two samplers can share the same note assignments and be set to two separate MIDI channels.

Order Code: PP014 **£69 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

POCKET THRU

- 1-In, 3-Out MIDI Thru box • High-speed CMOS design • Very low power requirements • Buffered outputs clean up data • Handles all MIDI data • Stackable for more outputs

POCKET THRU is an essential building block for any MIDI setup and an excellent companion product for all Pocket Products. POCKET THRU provides 3 buffered outputs from a single MIDI input. Use POCKET THRU to minimise MIDI delays, or expand the outputs of a POCKET MERGE unit. POCKET THRU also allows POCKET FILTER to be placed anywhere in the MIDI chain, when using it to channelise older synths. Up to 4 POCKET THRU's can be combined to provide a total of 9 outputs.

Order Code: PP010 **£35 inc VAT.**
Postage: UK £2.50 Europe £4.95 ROW £8.95

HOW TO ORDER

Join the group of satisfied customers worldwide who have found the solution to their MIDI problems with Pocket Products from Anatek, now available direct from SOS.

To order, just fill out the Order Coupon at the back of the Mail Order section (remember to add postage for each product) or simply call our Mail Order hotline on 01480 461244.

DON'T DELAY ORDER TODAY!

Please allow up to 28 days delivery on Pocket Products.

ABOUT POCKET PRODUCTS
Pocket Products are handy MIDI accessories designed to solve the problems arising from incompatibilities between MIDI products from different manufacturers. Compact and sturdy, Pocket Products can be placed anywhere in the MIDI signal chain.

ORDER NOW!
WHILE STOCKS LAST
See last page of Mail Order

SOS Book Shop

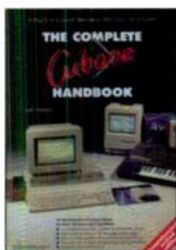
BEST SELLERS

THE COMPLETE CUBASE

HANDBOOK

2nd Edition

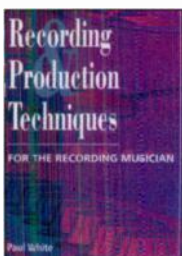
by Udo Weyers



After a short break, the definitive Steinberg Cubase Handbook is back in print. This new edition is once again filled with real world applications and down to earth explanations of how to use all the powerful features offered by Cubase in all its many forms. The book is now relevant to all three platforms (Atari, Mac and PC), and the main attraction of the revised text is its focus on Cubase Score. The Complete Cubase Handbook is a not-to-be-missed purchase for users of Steinberg's highly popular software.

CODE B195 £29.95
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

RECORDING & PRODUCTION TECHNIQUES



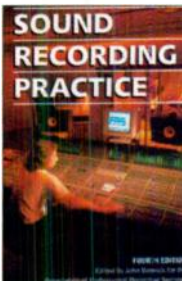
by Paul White. This highly informative book by SOS's own Editor demystifies the techniques used by professionals in the recording of contemporary music.

It reveals how to make full creative use of all manner of studio effects and signal processors. These techniques can be utilised both in the home and commercial studio. The book concludes with an invaluable section on master tape formats and an overview of the various processes and vinyl records.

CODE B200 £11.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

SOUND RECORDING PRACTICE (4th Edition)

NOW IN PAPERBACK!



by John Borwick. This now classic text reaches its Fourth Edition, and has been enlarged and revised to cover up to date developments in the recording industry. The contents of this 600+ page is too diverse to summarise in such a short space. Suffice to say that every serious recordist, whether amateur, semi-pro or professional should have a copy of this book.

CODE B107 £19.99
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

RECOMMENDED READING

INTRODUCING DIGITAL AUDIO

2ND EDITION

by Ian R Sinclair. Explains digital audio - CD, DAT and sampling - non-mathematically. The updated 2nd edition adds information on oversampling and bitstream techniques, plus a glossary of technical terms.

CODE B274 £7.95
Postage: UK £1.50, Europe £4.50, R.O.W. £6.50

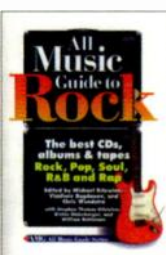
GOOD VIBRATIONS



by Mark Cunningham. *Good Vibrations - A History of Record Production* features a foreword by BRIT award-winning Best Producer of 1996, Brian Eno. The book chronicles the development of recording techniques and music technology, from the invention of sound-on-sound (multitrack) tape recording in 1949, to the current dramatic advances in digital technology. Also highlights the changing role of the producer and engineer, with quotes from George Martin, Brian Wilson, Tony Visconti, Trevor Horn, Hugh Padgham and Pete Waterman. Recordings discussed in detail include The Beach Boys' *Pet Sounds*, The Beatles' *Get Pepper's Lonely Hearts Club Band*, Pink Floyd's *Dark Side Of The Moon*, Queen's *Bohemian Rhapsody*, David Bowie's *Heroes*, and U2's *Zooropa*. Includes around 100 photos and illustrations, many previously unseen, plus extensive reference section.

CODE B331 £9.99
Postage: UK £2.50, Europe £5.95, R.O.W. £9.50

ALL MUSIC GUIDE TO ROCK



From doo-wop to hip-hop, this is the most complete guide to the best CDs, albums and tapes in all genres of this music, both mainstream and alternative. Compiled by dozens of top music critics, 15,000 recordings by 2,500 performers are listed, rated and reviewed - including bootlegs, imports, out-of-print albums, and "cult" artists.

Easy to use and fun to explore, the All Music Guide to Rock also gives you major artist bios and discographies, essays exploring dozens of rock styles and influences, music maps, and more.

CODE B318 £18.50
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

PIANO - Evolution, Design & Performance



By David Crombie. This is the most spectacular and informative book ever assembled on the history of the piano. At its heart is a stunning collection of more than 150 pianos ranging from the instrument's earliest roots to today's magnificent upright and grand pianos. This important new book is an essential purchase for every piano player and every musical instrument enthusiast, bringing alive the most fascinating and wide-ranging collection of pianos ever seen in one book.

CODE B308 £19.95
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

MUSIC & NEW TECHNOLOGY

by Gabriel Jacobs & Panicos Georgeiades. Forward by Vangelis. A thorough guide to creating music with today's music technology. Covers music theory, MIDI and electronics principles, computers, what gear to use in your MIDI studio, and most modern MIDI production techniques. Ideal for beginners and advanced readers alike.

CODE B156 £14.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

HARD DISK RECORDING FOR MUSICIANS

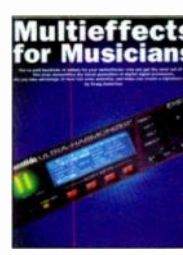


by David Miles Huber. More of a digital recording overview, this book looks at digital audio in all its forms. Huber discusses the equipment, the techniques and processes of digital audio.

Computer-based sound editing, digital audio workstations, digital signal processing techniques, sampling and real-world applications in music, film, video and broadcast environments are covered plus multimedia. The text is designed to be understood by newcomers, while delivering information of value to professionals. 182 pages.

CODE B307 £15.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

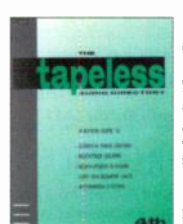
MULTI-EFFECTS FOR MUSICIANS



by Craig Anderton. Occasional SOS contributor Craig Anderton adds to his long list of music technology-based books with this comprehensive look at multi-effects units. The book helps you with what to look for when buying a new unit, how to use it when you've got it home, and provides a collection of tips to help you get the most out of your device. 137 Pages.

CODE B306 £10.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

TAPELESS AUDIO DIRECTORY



(4th Edition) By Yasmin Hashmi. Completely updated, this 4th edition is the only international buyers guide to over 200 professional digital audio workstations and systems aimed at cart replacement and broadcast automation.

The comprehensive listings include target markets, hardware and software specifications, operational features, networking and file translation, future development plans, training and customer support, costs and suppliers details for USA, Europe and Far East. The Directory not only covers all existing systems, but those soon to be launched and those on which development has been halted. It also provides a comprehensive explanation of the terminology, with useful tips for potential purchasers.

CODE B304 £14.95
Postage: UK £2.50, Overseas £4.50

TECH TERMS - A Practical Dictionary for Audio and Music Production



by George Petersen and Steve Oppenheimer. This is a concise collection of definitions of electronic music and recording terms; 300 words and phrases are given quick accurate definitions in plain English. So if you're new to recording, synths, samplers and MIDI, this book could be a big help in getting your mind into the terminology.

CODE B230 £7.95
Postage: UK £1.50, Europe £3.75, R.O.W. £4.95

THE ART OF DIGITAL AUDIO

CODE B248 £49.50
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

THE SECRETS OF MUSICAL CONFIDENCE - How to Maximise Your Performance Potential



By Andrew Evans. Written by a musician and psychologist, this is claimed to be a first for musicians: a book aimed at maximising performance potential and increasing confidence. A series of questionnaires and exercises allow you to analyse your abilities and needs and allow you to deal with stress, creativity and career management, amongst other topics.

CODE B240 £7.99
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

AUDIO

by F A Wilson. Volume 6 of the Elements of Electronics series, *Audio* offers a comprehensive guide to the physics of sound, its recording and its reproduction. There is a lot of physics used in the book - in fact, this aspect makes the book a good basic text for those with a serious interest - but the text in between the formulae is clear and informative. Not bad value for £3.95 - a total of 308 pages.

CODE B277 £3.95
Postage: UK £1.50, Europe £4.50, R.O.W. £6.50

SOUND FOR PICTURE



Edited by Jeff Forstena and Terri Stone. Covers all aspects of film and TV sound, dialogue, music, effects recording, and editing and assembling the result into a final soundtrack. Technical and creative aspects are all covered, and a comprehensive glossary is provided. A good proportion of the book is also taken up with a selection of case studies (including Malcolm X, The Abyss, Northern Exposure and Twin Peaks) that provide hands on information.

CODE B231 £9.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

STUDIO MUSICIAN'S JARGONBUSTER

by Gadir Wilkie. If the terminology of musical technology and recording leaves you gasping, then this is the book for you! With clear explanations of 1500 terms and concepts, amidst illustrative graphics, the whole work is extensively cross-referenced, and worth its weight in gold.

CODE MX30045 £12.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

THE COMPOSER'S GUIDE TO MUSIC PUBLISHING (2ND EDITION)



written & compiled by Annie Gunning. This book has been produced by the Association of Professional Composers and examines the business of musical copyright and music publishing from the composer's point of view. It aims to educate composers of all kinds of music in the operation of the music publishing business to help them obtain, negotiate and benefit from publishing agreements and avoid expensive mistakes. Apart from publishing, the book also covers copyright legislation, performing and mechanical rights, the royalty administration societies, music in film, broadcasting, theatre and ballet and commissioning agreements. There is also advice for composers setting up their own publishing companies. An exhaustive and useful book.

CODE B297 £18.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

PROFESSIONAL COMPOSING

CODE B298 £3.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

OVERNIGHT DELIVERY OPTION: ONLY £5.00! See Order Form for details

HIGHLY RECOMMENDED

CREATIVE RECORDING EFFECTS & PROCESSORS



by Paul White
The first in this major series, Effects and Processors is a complete guide to the outboard equipment which has today become an integral part of popular music.

A comprehensive analysis of studio effects and signal processors, it provides detailed coverage of each piece of equipment: how it performs its respective task, what effect it has on the sound, and its role in creative music production.

CODE B315 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

CREATIVE RECORDING TWO MICROPHONES & RECORDING TECHNIQUES



by Paul White
A complete guide to understanding and using microphones in a recording environment.

In plain English, it explains how the different types of microphone work, discusses the advantages of the various different types, and shows how they can be used to get the sound you want onto tape.

CODE B316 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

CREATIVE RECORDING THREE ACOUSTICS, SOUNDPROOFING & MONITORING



By Paul White
Soundproofing, Acoustics and Monitoring is designed to take the mystery out of studio design, whether you run a bedroom studio or a commercial recording facility.

In plain English, it explains how soundproofing works, how you can change your room acoustics to give the optimum monitoring environment and how to choose and use your monitor system.

CODE B317 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

NON LINEAR BUYERS GUIDE



1st Edition
New from Sypha is the Nonlinear Buyers Guide. Known especially for their definitive digital audio-focused Tapeless Directory (look out for the 4th edition in the future), Sypha have applied the same comprehensive approach to digital video systems.

The first edition of The Nonlinear Buyers Guide is the only international source of information on over 150 nonlinear video systems. Products included in the Guide are nonlinear editing systems, mixed mode editing systems, plug in cards and software for editing, disk recorders and servers. The information is provided in an easily accessible format and includes operational and technical specifications, future developments, costs and suppliers details. The Guide also gives useful pointers to those considering investing in a system.

CODE B270 £19.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

SAMPLERS

THE SAMPLING BOOK

By Steve De Furia & Joe Scacciaferro
How to achieve better samples - this book explains the technical issues involved, clearly and simply. Good advice on what to look for when buying a sampler.

CODE B025 £11.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

WHAT'S A SAMPLER?

By Freff
Ideal starter book for sampling novices. Whether you are serious about sampling or merely curious, this book is for you.

CODE B104 £4.50
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

RECORDING

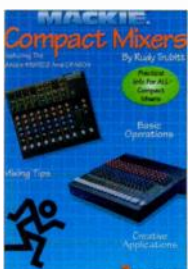
HOT TIPS FOR THE HOME RECORDING STUDIO



by Hank Linderman
Learn how to lay down music the way you want it to sound, with advice for getting the best from your mixer, multitrack, compressor etc. Discover tricks and what traps to avoid, unlock the mysteries of timercode,

prevent noise problems. Packed with sound advice.
CODE B326 £12.99
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

MACKIE COMPACT MIXERS

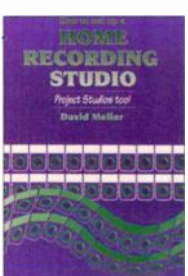


by Rudy Trubitt
Journey through the design and features of mixers so you can maximise the use of this essential and very flexible audio component. Using Mackie's wildly popular MS1202 and CR1604 mixing desks as a foundation, the

book explains general concepts as well as model specific operating tips. Topics include: mixing basics, real world applications, hooking things up, mixing tips, block diagrams and a glossary.

CODE B330 £14.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

HOW TO SET UP A HOME



RECORDING STUDIO
UPDATED & EXPANDED

By David Mellor
If you are thinking of setting up a home studio, a project studio or a DJ studio, this book is the place to start. It takes a highly practical

'nuts and bolts' type of approach to help you produce an efficient and productive studio. It covers soundproofing, keeping the sound in and the noise out, acoustics, studio layout, and studio equipment, and advice on the kit you are likely to need. The book ends with an invaluable questions and answers section, a glossary of terms and a list of contacts.

CODE B116 £8.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE MUSICIANS GUIDE TO HOME RECORDING

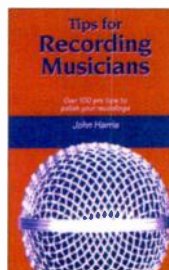


by Peter Melan & Larry Wichman (Revised and Updated)
This is the book every serious songwriter, musician, and home recordist needs, with a new chapter on MIDI and the latest digital recording technologies. A problem-solving guide as well as an instructional text,

it is designed to explain in simple terms how professional recording techniques can be applied at home.

CODE B314 £16.95
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

TIPS FOR RECORDING



MUSICIANS
by John Harris
Today's studio equipment is affordable but sophisticated, and it takes a lot of know-how to use all this technology effectively. This book details the equipment you need - mics, effects, tape machines, etc. It has separate sections on

recording of vocals, electric guitar, drums and acoustic instruments, as well as the use of MIDI in the recording process. You will learn how to get the best from delay and reverb, as well as effects like compression and gating. There are some useful tips on using the mixing desk and post production work. All in all it's a handy guide that will improve your recording techniques at a stroke.

CODE B309 £8.50
Postage: UK £1.50, Europe £3.95, R.O.W. £3.50

PRACTICAL STUDIO TECHNIQUES

by Tom Misner
This book and audio CD package comes from the School of Audio Engineering's Tom Misner. It's an excellent source of basic recording facts and figures, and if you want concrete examples of the subjects discussed, then listen to the free mixdown demonstration CD.

CODE B301 £15.00
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

RECORDING TECHNIQUES FOR SMALL STUDIOS

by David Mellor
This well written, user-friendly book is designed to offer accessible and helpful tips on how to get the most out of the equipment in your studio. Chapters cover: mic techniques; musical arranging for recording; 4-track recording; the mixer; preparing for an running a session; recording drums; recording vocals; integrating MIDI; using effects and signal processing; location recording, and digital recording. The book is rounded off with an 'any questions' section, a glossary and a list of recording studios in the UK. As you would expect from a book based on an SOS series, this is a *must have!*

CODE B198 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE MASTER TAPE BOOK



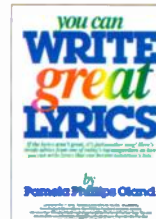
Alan Parsons, Bill Foster & Chris Hallebone
The definitive guide to the creation and management of audio master tapes. With 'Master Tapes' literally flying around the

world being copied, cloned or re-cut for seemingly endless variations of compilation albums, it is terrifying to think that there is no standard set of procedures for labelling and maintaining master tapes. Until now, that is.

CODE B194 £15.00
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

MUSIC BUSINESS

YOU CAN WRITE GREAT LYRICS



by Pamela Phillips Oland
This book helps you develop your own philosophy and style. Its plentiful techniques, combined with practical advice and exercises, will have you writing great lyrics before you know it!

CODE B329 £11.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

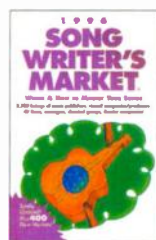
MUSIC PUBLISHING



by Randy Poe
This book demystifies music publishing, explaining what it's all about and what it means to a songwriter. Learn what your publishing options are, from a single song contract to a staff writer to a self-publishing operation. By the time you have finished this book you will never make an uninformed decision about publishing your songs that you will later regret.

CODE B328 £12.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

SONGWRITERS MARKET

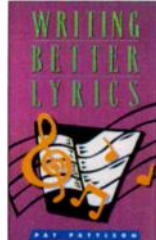


1996
To get your songs published and produced, you must know who the music industry's players are and how to approach them. This directory identifies those seeking the work of songwriters. Lists 2500 lyric and music markets, clubs, associations, contests, workshops and

songwriters publications. Includes 'The A & R Roundtable', where pros discuss their role in a songwriter's career, business side of songwriting, music industry trend report, and interviews with music industry professionals.

CODE B324 £12.99
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

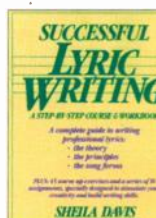
WRITING BETTER LYRICS



by Pat Pattison
In-depth approach to lyric writing examines 17 songs to discover what makes them so effective. Learn a warm-up exercise that will revolutionise your songwriting imagery, how to use a rhyming dictionary to unlock fresh, unexpected rhymes, avoid clichés and create imaginative

metaphors and similes.
CODE B325 £12.99
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

SUCCESSFUL LYRIC WRITING



by Sheila Davis
Superb guide to the art of writing words to music. Learn how to create a memorable song title, choose the best music form for each idea, apply writing principles and avoid common pitfalls, write with both sides of your brain, find

your voice. Includes songwriter's bibliography and lists over 60 songwriting organisations to help you connect with your chosen marketplace.

CODE B327 £12.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

SOS Book Shop

THE SONGWRITER'S GUIDE TO COLLABORATION

by *Walter Carter*
This book describes what to expect when entering into a co-writing situation and how to make the arrangement work. Covers the pros and cons, how to find a partner, publishing your songs, who writes what, money matters, sharing success and rejection, growing together or apart plus co-producing and pitching.

CODE B323 £8.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

CREATING MELODIES

by *Dick Weissman*
Learn how to create memorable melodies, from love ballads to film scores and jingles. Using lots of examples of popular songs and styles by top-name musicians, Weissman covers the full range of melody writing. Learn how to marry music to lyrics, relate rhythm to the message of your song, read and write musical notation,

write instrumentals for films, TV, commercials and theatre, and put together a demo tape.

CODE B322 £12.99
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

CAN YOU SING A HIGH "C" WITHOUT STRAINING

by *Thomas Appell*
This book features extensive coverage of the vocal cords and explains clearly how to sing high notes without going into falsetto, and without straining. You'll learn how to extend the range of your voice, and why most singers either strain or "break" into falsetto when attempting to sing above

their normal range. It comes with 2 CD's jam-packed with over 2 hours of vocal examples and exercises that you can practice with. Many singers have increased their range by several notes after the first week of practice. If you can't sing high notes without straining, but would like to know how, then this book is for you. 122 pages.

CODE B319 £24.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE WHITE BOOK INTERNATIONAL PRODUCTION DIRECTORY

1996
This is the latest edition of the essential source of contacts for artists, performers, venues, services and facilities associated with music, concerts, shows, festivals, film, TV, video, conferences, exhibitions and corporate hospitality

- there's even a comprehensive international section. The layout is logical and an index makes fact finding an easy task - altogether an indispensable 364 pages. The new edition once again comes with a complementary copy of The Little White Book, which distils the contents of the larger volume to a pocket-sized list of names and phone numbers.

CODE B259 £46.00
Postage: UK £4.75, Europe £8.50, R.O.W. £16.95

THE MUSICIAN'S GUIDE TO READING & WRITING MUSIC

It's an entertaining but practical introduction, well, to reading and writing music. This is as friendly as it comes. Learning to read and write music isn't easy, but at least the process is lightened up with considerable doses of wit.

CODE B224 £8.99
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

THE ARC MUSICIANS' DIRECTORY

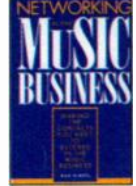


The new Musicians' Directory from Arc Publishing aims to provide all things to all musicians: whatever your style of music, the comprehensive listings offer you the contacts you need, whether it's labels, studios, venues, music shops or

management - and that just scratches the surface of the dozens of topics covered by the book. Apart from being a directory proper, the Handbook also includes a selection of useful articles, including subjects such as how to be a session player (by SOS's very own Paul White), music publishing, releasing your own record, copyright protection, accounting, legal advice and more. The Musicians' Directory offers over 380 information-packed pages for little more the price of a new CD.

CODE B219 £14.99
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

NETWORKING IN THE MUSIC BUSINESS



by *Dan Kimpel*
Think of this book as a popular psychology course for musicians. If you feel you could benefit from developing a positive attitude to getting ahead in your area of the music business, then *Networking* is for you. There's nothing like it for good, sensible advice: it's often not

enough to have talent. To be successful, you'll need to persevere, have good "people skills", and exercise good networking skills. Success depends on what you know, who you know, and perhaps most importantly, who knows you. An essential book, and a snip at £11.95. Hardback.

CODE B251 £11.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

THE SONGWRITER'S MARKET GUIDE TO SONG & DEMO SUBMISSION FORMATS



From the Editors of *Songwriter's Market*
If you've got the songs and you've got the contacts, this book will help you to choose a format that will get your demo heard as well as overall packaging and presentation and dealing professionally with publishers, A&R reps and other industry people. Plenty of example documents (lyric sheets and letters) are given, and the book is nicely rounded off with a glossary and index. Hardback.

CODE B258 £12.95
Postage: UK £2.50, Europe £5.95, R.O.W. £9.95

SONGWRITER'S WORKSHOP



Edited by *Harvey Rachlin*
If you want to work systematically at improving your songwriting skills, then try this book: it's divided into four individual 'lessons', each of which is backed up by audio material on cassette. This allows you to listen in the car or walk around with your personal stereo and still absorb useful information. The four sections are: On Songwriting by Janis Ian (yes, the Janis Ian); Making Demos by John Barilla;

Understanding MIDI by James Becher; and The Art of Pitching Songs by Teri Muench (ex-A&R director with RCA and publisher). Also included is an intro, a quick and breezy glossary and an index. Includes two cassettes.

CODE B260 £15.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

MUSIC BUSINESS AGREEMENTS



by *Richard Bagshot*
Written by a practising music business solicitor, "Music Business Agreements" can be seen as a legal textbook for the UK music industry. Don't let the formal tone put you off: this book is a mine of information with reference to real-life problems and examples, and a helpful question and answer appendix. Expensive, but invaluable. 522 Pages.

CODE B303 £58.00
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

SONGWRITERS IDEA BOOK



by *Shirley Davis*
If you want a textbook, this is it: 250 pages of serious, intelligent insight into songwriting. Loads of good advice and a friendly tone make this a useful read to anyone, whether beginner or seasoned pro. The focus is firmly on lyrics rather than music, and the prominent references to poetry terminology shouldn't really be a surprise. Use Davis' 40 strategies and you could soon be "designing distinctive songs". Hardback.

CODE B250 £9.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

SINGING FOR A LIVING



by *Marta Woodhull*
The title says it all. If you're already a singer, this book gives you everything you need to know in order to exploit your talent further: looking after your voice and voice exercises, business advice and marketing and audience interaction are all covered in this straightforward book.

CODE B252 £12.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

SHOWCASE INTERNATIONAL MUSIC BOOK 1996

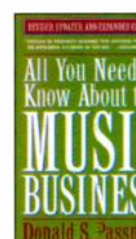


The music industry equivalent of *Yellow Pages*: over 500 pages crammed with all the latest information, including new phone and fax codes for record companies, recording studios, music publishers, equipment manufacturers, artist management,

producers, PA and lighting hire, and more. Plus a USA section.

CODE B192 £32.00
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

ALL YOU NEED TO KNOW ABOUT THE MUSIC BUSINESS



by *Donald S Passman*
This book is a must: the author manages a portfolio of high profile clients and teaches music business law at the University of Southern California, and has produced a clear overview of the music business. He starts at the beginning of your career, with advice on choosing a manager, lawyer and agent, and moves through getting a record deal, songwriting and music publishing and finishes with details of copyright, mechanical royalties, songwriter deals, films and more. An exhaustive and entertaining read. 415 Pages.

CODE B302 £19.99
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

88 SONGWRITING WRONGS & HOW TO RIGHT THEM

by *Pat & Pete Luboff*

This is a real workbook for songwriters, dealing with both the craft and art of songwriting. Song structure, rewriting, matching lyrics to music, collaboration, making the right demo, pitching the final result, and business matters.

CODE B254 £11.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

BEGINNING SONGWRITER'S ANSWER BOOK

by *Paul Zollo*

If you're just starting out as a songwriter or haven't progressed very far, perhaps you have questions about the art and business of songwriting that you can't find answers for. Chances are, they're covered in this book. Over 200 of the questions songwriters most often ask are answered in this book. There are 11 chapters, covering subjects such as lyrics, theory, song structure, collaboration, demos, publishing and the music business. Some answers - such as "What makes a professional-sounding demo?" are actually mini-articles - and an index allows you to target subjects without wading through the text. A friendly, informative read.

CODE B253 £10.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE BROADWAY QY10

by *Peter L. Alexander with Bobby Maestas*

Charts and musical examples for re-creating Broadway songs with your QY10 using only the internal patterns. Includes useful set-up information. 77 pages.

CODE B263 £3.95
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

TG33 QUICK OPERATIONS

by *Bobby Maestas*

Instant access to Yamaha's neat little Vector Synthesis sound module. Loads of examples, well illustrated. 115 pages.

CODE B264 £8.95
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

YAMAHA SY55 GUIDE

by *Bobby Maestas*

A good helpful look at this arguably overlooked instrument; technicalities are explained in context of music throughout. 153 pages.

CODE B268 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

MIDI INFORMATION

MAKING THE MOST OF MIDI



By *Paul Overaa*
This is a MIDI book unlike any other. It explains the fundamentals of MIDI and MIDI sequencing for the beginner, and it goes much further, dealing with issues that will be of help to more established users. Advice on MIDI

fault finding, help for musicians using sequencers with live bands, MIDI messages and MIDI files, plus programming material. So if you are a keen first time user or a MIDI veteran, there will be something in this book to interest you.

CODE B321 £14.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

THE MIDI COMPANION



By *Jeffrey Rona*
A breezy run through MIDI that would suit the absolute beginner, this book is well-illustrated, clearly expressed and explains the technical bits in as close to non-technical language as the subject matter allows.

CODE B234 £9.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

OVERNIGHT DELIVERY OPTION: ONLY £5.00! See Order Form for details

MUSIC TECHNOLOGY REFERENCE BOOK



by Peter Buick & Vic Lennard
Written by Peter Buick and Vic Lennard (author of SOS's Atari Notes column), this book offers information at your fingertips and is an indispensable reference source for the musician or sound professional in the recording, broadcast, live, video, computer, multimedia, post production and theatre industries. It includes comprehensive MIDI spec, General MIDI, MTC, MSC, and SysEx information. It also includes charts, check lists, useful hints, tips, and ideas, plus a glossary, list of contacts and a comprehensive indexed, it is also organised into convenient sections. 150 Pages.

CODE B305 £12.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

ADVANCED MIDI USER'S GUIDE (2nd Edition)



by R A Penfold
Most MIDI users do no more than scratch the surface of MIDI's potentialities. But dare to dig a bit deeper and you'll find a whole new world of creative possibilities.

With the Advanced MIDI User's Guide, you'll learn how to optimise your MIDI system to get the best results from your particular setup, and you'll find out how to use gadgets like switchers and mergers to enhance your system. If you want to incorporate a multitrack tape recorder into your MIDI system there's a section on synchronisers, SMPTE and MIDI time code, and retro freaks will learn how to hook up that dusty old analogue synth to their MIDI systems.

CODE B152 £10.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

MIDI SYSTEMS AND CONTROL

By Francis Rumsey.

This revised edition has been expanded in an number of topic areas, to provide even more comprehensive coverage of every area of MIDI. Contents include: an introduction to principles and terminology; MIDI timecode; librarians and editors; different approaches to sequencer software design; practical systems design.

CODE B007AM £19.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

PRACTICAL MIDI HANDBOOK (3rd Edition)

by R A Penfold

This book is completely updated, and features a section on General MIDI. It provides a "straightforward, non-mathematical introduction to MIDI", and features a full glossary of MIDI terms.

CODE B273 £8.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

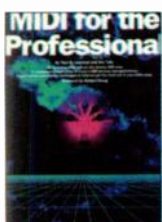
A BEGINNERS GUIDE TO MIDI

by R A Penfold

The title says it all: all aspects of MIDI are explained, and many common beginner's problems are discussed.

CODE B287 £4.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

MIDI FOR THE PROFESSIONAL



by Paul D Lehrman and Tim Tully
Co-written by SOS contributor Paul D Lehrman, this substantial, exhaustive work covers pretty well any aspect of MIDI that you could think of. As an overview of what MIDI is and does in 1994, this

239 page book couldn't be better.

CODE B227 £11.95
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

MIDI SURVIVAL GUIDE



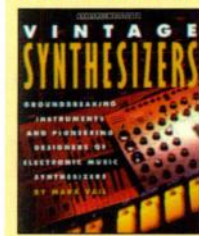
by Vic Lennard

Whether you're a beginner or a seasoned pro, the 'MIDI Survival Guide' shows you the way. No maths, no MIDI theory - just practical advice on starting up, setting up and ending up with a working MIDI system. Contains over 40 cabling diagrams, and how to: connect synths, sound modules, sequencers, drum machines and multitracks; how to budget and buy secondhand; using switch, thru and merger boxes; transfer songs between different sequencers, get the best out of general MIDI, and understand MIDI implementation charts.

CODE B196 £6.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

SYNTHESIZERS

VINTAGE SYNTHESIZERS



By Mark Vail

This well-illustrated, 300 page book covers synth history, interviews with designers and overviews of important instruments. Mark Vail's book could be the most entertaining and useful synth book yet - check out the definitive history of the Minimoog, complete with pre-production designers' sketches. While not strictly a buyers' guide, there is a comprehensive section to sourcing, valuing, upgrading and servicing classic instruments.

CODE B199 ONLY £16.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

KEYFAX 2

by Julian Colbeck

1989 version of Keyfax provides individual summaries and specifications of the last of the great mono synths, digital pianos, and classic polysynths like the Roland JX10 and Prophet VS -forerunner of the SY22 and Wave Station. Early Keyboard and rack-mount samplers are covered in this indispensable guide. Still a great buy.

CODE B096 ONLY £5.99
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

KEYFAX 4

by Julian Colbeck

The new Keyfax book (1993) is the most comprehensive guide to professional keyboards yet compiled, Keyfax 4 spotlights synthesizers and expander, and MIDI keyboard controllers. From classic analogue machines right up to the latest synth/sampler hybrids. Reviews include technical tour on a practical, need-to-know basis. Everything you need to decide which instrument is best for you.

CODE B201 £12.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE MUSEUM OF SYNTHESIZER TECHNOLOGY



by Martin J Newcomb

If you liked our feature on the opening of the Museum of Synthesizer Technology in October, but haven't got the time or the cash to visit in person, then the next best thing has to be the museum's guide book. This 118 book is printed on glossy paper and contains full-colour pictures of a large selection of exhibits from the museum, together with some descriptive text and company backgrounders. The text reads a little like a fanzine, but the hardcore synth fanatic will want this book for the pictures. In these pages you will glimpse instruments that you are unlikely ever to experience in the flesh: an exceedingly large Roland System 100 modular set-up, an EMS Synthi 100, an ARP 2500, a large Emu modular and what must be the comprehensive collection of Moog equipment anywhere.

CODE B291 £12.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

KEYFAX 5



by Julian Colbeck

The latest instalment in the intrepid Keyfax series offers potted specifications and concise mini-overviews of digital pianos, home keyboards, General MIDI modules, stage organs and computer sound cards. Look out for company backgrounders, contact details and cross-references to earlier Keyfaxes.

CODE B231 £12.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

THE A-Z OF ANALOGUE SYNTHS PART ONE: A-M



by Peter Forrest

The author has aimed to make his book a complete rundown of all the major analogue synths and keyboards ever made, and on the evidence of this first volume, he seems to have succeeded. The book is useful and detailed, and shows evidence of

the massive amount of research and effort put in by Peter. He gives pocket company histories and detailed data on the instruments produced - but note that a few entries for a few particularly obscure instruments and companies are limited due to lack of data. The book also provides a comprehensive overview of the qualities of various instruments; charts and tables assess second hand values and maintenance levels necessary to keep a given instrument playable as well as such intangibles as sound quality, collectability and user interface. The A-Z of Analogue Part One, which is limited to 8000 copies worldwide, also features 96 colour pictures of classic instruments.

CODE B294 £14.00
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

DRUM MACHINES

DRUM PROGRAMMING - A Complete Guide to Program and Think Like a Drummer



By Ray F Badness

Coming from a publisher that has a good range of real drum texts, we'd expect this book to be a little different. And it is: it gives plenty of insights into how real drummers approach their job, and there are plenty of example patterns to help translate these

ideas to a drum machine.
CODE B235 £6.95
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

DRUM MACHINE RHYTHM DICTIONARY

By Sandy Feldstein

For use with Roland drum machines or any grid-based pattern system. First 75 pages on programming huge range of rhythms in rock, latin, jazz and funk styles. Remainder analyses styles and patterns of world's top drummers - Phil Collins, Billy Cobham, Steve Gadd, Stewart Copeland, etc. Highly recommended.

CODE B110 £16.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

RHYTHMICAL GROOVES & PATTERNS

By Siegfried Hoffman

Looks at how drummers compose rhythm patterns to add emotion, swing or groove. Contains examples for you to programme into your drum machine or sequencer.

CODE B115 £11.50
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

260 DRUM MACHINE PATTERNS

By Rene-Pierre Bardet

Even more drum pattern styles (paso doble, charleston, etc)
CODE B019 £7.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

DRUM MACHINE PATTERNS

By Rene-Pierre Bardet

200 drum patterns and breaks presented in one-measure grid notation. Funk, R'n'B, ballad, pop, reggae, afro-cuban and many other styles.
CODE B018 £7.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

PLAYING TECHNIQUES

ROCK IN SEQUENCE



by William Lloyd & Paul Terry

The latest book from the authors of Music In Sequence and Classics In Sequence is now available: Rock In Sequence offers detailed scores of 17 rock and pop hits from the '50s to the present day, alongside a collection of helpful sequencing tips. Songs are included from the likes of the Beatles, Led Zeppelin, Abba, Eurythmics, Blur and more. Rock In Sequence 112 pages.

CODE B320 £14.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

CLASSICS IN SEQUENCE

by William Lloyd & Paul Terry

Takes concepts behind Music In Sequence and applies them to all-time favourite classical music scores. Authors show how to make fresh, exciting interpretations of classic scores. Info on reverb and effects, interpreting scores, editing synth voices. Highly creative - an ideal workbook for the music classroom. Covers Medieval, Renaissance dance music, Bach's Toccata in D minor; Vivaldi, Purcell, Handel; opera excerpts from Rossini, Verdi, Borodin; Mozart, Schubert, Tchaikovsky, music from Carmina Burana, Debussy, Satie, Steve Reich's Piano Phase and more. Highly recommended.

CODE B193 £12.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

MUSIC IN SEQUENCE

by William Lloyd & Paul Terry

Still one of our best-selling books. Easy to follow, practical guide to making real use of your sequencer, written by people who really understand music and how to create it using today's technology. This brilliant, unique book carries the SOS seal of approval.

CODE B155 £12.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

1000 KEYBOARD TIPS



by J Dreksler & Q Harle

The hi-tech musician's guide to the basics of music, scales, chords and harmonies. 256 pages covering chord relationships, improvisation, suggested drum machine patterns, plus comprehensive chord table. Too good to miss!

CODE B113 £13.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

SOLID GROOVES

By Dieter Peterel & Herb Quick

128 pages dealing with both bass and drums, the 'heart' of the pop group, together. Although written primarily for drummers and bass players, anyone interested in understanding rhythmical music in popular styles will find this book invaluable.

CODE B172 £11.50
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

PLEASE REMEMBER: POSTAGE IS PAYABLE ON ALL MERCHANDISE

SOS Book Shop

COMPUTERS & MUSIC

THE COMPLETE SOUND BLASTER

by Howard Massey
Explains in simple, non-technical terms: how to install the Sound Blaster hardware and software for use in both the DOS and Windows environments, the two sound processes used by the card, MIDI, the Sound Blaster's MIDI capabilities, and the many different applications for the Sound Blaster, including the various software utilities provided with the card, and many of the third party support products that enhance its operation.

CODE B313 £10.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

MULTIMEDIA ON THE PC

By Ian R Sinclair
If you want to know what multimedia is and what it can offer you, then this is the book for you. Much of the information is general enough for everybody, but as the title suggests, the book is aimed at PC users. The book explains the installation and use of a CD ROM drive and a sound card and covers all key concepts behind multimedia. As an added incentive, if you buy this book, you can send away for a free copy of *Picturebook*, a multimedia authoring package.

CODE B272 £11.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

PC MUSIC HANDBOOK 2nd Edition

by Brian Heywood & Roger Ewan
This book will show you how to turn your PC into a creative music making machine. It explains how you can create very sophisticated music on your PC by running sequencing software, how to create your own sounds with a soundcard, how to use your PC as a sound librarian, or a sample editor, or even use it as a hard disk recorder, or a sound sampler. All these things are possible with today's sophisticated PC.

CODE B332 £14.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

COMPUTERS AND MUSIC

By RA Penfold
2nd edition. Covers hardware and software applications. Excellent glossary of jargon, and now bang up to date.

CODE B098 £8.95
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

SEQUENCER SECRETS

Ian Warugh
Ian's book aims to "go beyond the manual" in telling you how to get the best from your sequencer. The book features 29 hands-on sequencing projects and is suitable for use with all software sequencers. The book hopes to help you optimise your MIDI system and use your sequencer to create all sorts of useful effects. A troubleshooting section helps you track down stuck notes, double notes and so on.

CODE B299 £6.95
Postage: UK £1.50, Europe £4.50, R.O.W. £6.50

MUSICAL APPLICATIONS OF THE ATARI ST's



By RA Penfold
Includes a general introduction to MIDI, a handful of MIDI add-on circuits (Thru box, MIDI switcher and so on), plus a collection of programs, in *Fast BASIC*, that allows you to use the ST's internal sound generator and create little MIDI applications.

CODE B280 £5.95
Postage: UK £1.50, Europe £4.95, R.O.W. £7.50

MULTIMEDIA ON YOUR PC

by Francis Botto
A practical guide to multimedia specifically on the PC. Botto's book is once aimed at users, educators and developers, and comprehensively discusses the hardware required to take advantage of multimedia in a PC environment as well as the hardware and software necessary in a multimedia authoring situation. The book is provide with comprehensive appendices covering a glossary and comprehensive product and manufacturer lists.

CODE B296 £10.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

LIVE SOUND

SOUND REINFORCEMENT HANDBOOK

by Gary Davis and Ralph Jones
From recording to broadcast, fixed installations to touring, this 400 page reference covers live sound setups, equipment, techniques and jargon.

CODE B105 £27.95
Postage: UK £3.95, Europe £7.50, R.O.W. £14.50

CONCERT SOUND AND LIGHTING SYSTEMS

Written by John Vasey
How to set up and operate sound / lighting equipment for the performance of amplified music or any kind of touring production.

CODE B247 £14.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

LOUDSPEAKERS FOR MUSICIANS

CODE B284 £3.95
Postage: UK £1.50, Europe £3.95, R.O.W. £4.50

LIVE SOUND MIXING

by Duncan R Fry
This is a hands on, friendly introduction to all aspects of mixing live. It hails from Australia, and is an SOS Bookshop exclusive. The author is an experienced live sound engineer and has packed his book with loads of information, diagrams and hints to take you from basic principles through to trouble shooting when things go wrong.

CODE B256 £19.95
Postage: UK £1.95, Europe £5.50, R.O.W. £8.50

INTRO TO LOUDSPEAKER & ENCLOSURE DESIGN

by V Capel
The book provides both useful background to speakers and enclosures in general, plus practical information on crossovers and full details on constructing the so-called "Kapellmeister" design of speakers.

CODE B281 £2.95
Postage: UK £1.50, Europe £6.95, R.O.W. £9.50

THE FOCAL GUIDE TO SAFETY IN LIVE PERFORMANCE

Edited by George Thompson
This book provides an authoritative look at safety matters for workers in the live entertainment industry. It is edited by the Standards Officer of PLASA (Professional Lighting and Sound Association), and provides good solid information in an easily digestible, well-illustrated form. Topics covered include audience and crowd control, fire safety precautions and engineering, electrical safety, laser safety, sound levels and noise control and much more.

CODE B271 £19.95
Postage: UK £2.50, Europe £5.50, R.O.W. £8.50

PUBLIC ADDRESS LOUDSPEAKER SYSTEMS

by V Capel
All aspects of PA speaker systems are covered in this book, including low-impedance matching, 100V systems, transmission lines and how to install inductive hearing aid loops. At the heart of the book is the Line-Source Ceiling Array, a system that is claimed to improve clarity, even coverage and reduce feedback. Full step-by-step construction and installation details are given.

CODE B283 £3.95
Postage: UK £1.50, Europe £5.50, R.O.W. £8.50

ELECTRONIC PROJECTS

ELECTRONIC MUSIC AND MIDI PROJECTS

by RA Penfold
Want a MIDI THRU box, patchbay or switcher? Well they're all here. And you don't need a degree in electronics either. All the projects are explained in detail, with full instructions on assembly. So if you're into MIDI and you want to expand your system without taking out a second mortgage, fear not. Here's the book to help you build up your MIDI system without laying out thousands on hardware.

CODE B203 £9.95
Postage: UK £1.95, Europe £4.95, R.O.W. £7.50

DIGITAL AUDIO PROJECTS

by RA Penfold
A two part book, with the first section looking at the basic principles involved including converting an audio signal into digital form and then converting it back to an analogue signal. The second part contains some circuits - for the moderately experienced only.

CODE B279 £2.95
Postage: UK £1.50, Europe £3.95, R.O.W. £4.50

HIGH POWER AUDIO AMPLIFIER CONSTRUCTION

By RA Penfold
Much useful background to amplifier design, speaker matching and more is included in the first couple of chapters, while the last section contains a selection of high power amp circuits plus suitable PSU circuits. Copper track patterns are also provided to allow you to make your own PCBs. While the circuits aren't too difficult as such, those with limited constructional experience should note that due to the high supply currents and voltages involved, even minor mistakes could be extremely dangerous.

CODE B282 £3.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

ELECTRONIC PROJECTS FOR MUSICIANS

CODE B068 £10.95
Postage: UK £2.50, Europe £6.95, R.O.W. £9.50

MIDI PROJECTS

By RA Penfold
A comprehensive collection of simple MIDI projects, including CV and gate converters and a MIDI Thru box. A lot of the book is taken up with interface various obsolete computers to MIDI (Spectrum, CPC464, Commodore 64, BBC B, ZX81 and so on), but the general information is basically sound. Could prove a boon to musicians who are really broke!

CODE B278 £2.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

PRACTICAL ELECTRONIC MUSIC EFFECTS UNITS

by RA Penfold
Another selection of musical effects, with more of a guitar angle. Projects include distortion, sustain, parametric EQ, graphic EQ, treble and bass booster, envelope modifier, wah wah effects and more.

CODE B290 £4.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

ELECTRONIC PROJECTS FOR VIDEO ENTHUSIASTS

by RA Penfold
Projects for the video and camcorder user, including dynamic noise limiter, automatic audio fader, video faders, video wipe and video crispener.

CODE B288 £4.95
Postage: UK £1.50, Europe £6.95, R.O.W. £9.50

PRACTICAL ELECTRONIC MUSIC PROJECTS

CODE B289 £4.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

ELECTRONIC MUSIC LEARNING PROJECTS

CODE B286 £4.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

NEW
VOICE TRAINING
NEW

VOCAL WORKOUT Video
by Sam West
Singers of varying abilities will find this video a great aid in assisting their vocal efforts. It begins by explaining the principles of voice production. Breath control exercises plus general vocal techniques are all explained and visually demonstrated. All the exercises are written out in an accompanying booklet, with piano accompaniment.

VIDEO CODE V067 £22.95
Running time approx 59 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

VOICE BUILDING Cassette/CD
by Sam West
Although geared towards singers of varying abilities, voices and styles, the contents of this recording are often challenging even to the professional singer! The video (code V067) goes into more technical detail, whereas the CD or Cassette concentrate on more intensive practising. First of all the exercises are sung, in various keys and then with musical accompaniment and melody line, so you can concentrate more on your voice while practising (karaoke style).

Vocal exercises can be boring, but this studio recording has been produced and presented to a very high standard, with interesting musical accompaniments to the exercises.

CASSETTE CODE MC001 £6.95
CD CODE CD037 £9.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

OVERNIGHT DELIVERY OPTION: ONLY £5.00! See Order Form for details

ROLAND MS-1 VIDEO



MANUAL

This video manual has been produced by Roland Corporation US, and has been designed to provide the user with tuition, and examples of how to apply your new found knowledge in various applications. There is also a comprehensive 'Tips & Tricks' section to give you that extra edge!

CODE V047 £24.99
Running time: 50 minutes (approx)
Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND GP100

Presented once again by Nick Cooper, this video manual for the Roland GP100 covers every aspect in detail with many practical demonstrations. Everything you need to know is covered; topics include; an explanation of COSM, layout, typical setups, initialisation, global settings, use of the tuner, selection and editing of patches, and use of the FX loop and harmonist.

CODE V062 £19.99
Running Time: 45 Minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND TDE-7K DRUM SYSTEM



Roland's TDE-7K Compact Drum System Comprises the TD-7 Percussion Sound Module, MDY-7 Cymbal Pad Holder, FD-7 Hi-Hat Control Pedal, MDS-7 Drum System Stand, PD-7 Drum Pads & KD-7 Kick trigger. You may have a different configuration to what is shown in the video,

but no matter!, Roland Product Specialist Gary O'Toole shows you how the complete kit is put together. Gary concentrates on the TD-7 in detail, showing how the parameters are set up, and giving demonstrations of how the sounds are derived and altered. Good use is made of the visual side in this video with multi-camera shots, a 'birds eye' view of the entire kit shows Gary's playing abilities to the full. As you would expect from a production aided by Roland UK & USA, this video shows you everything you need to know.

CODE V045 £19.99
Running time: 65 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

YAMAHA PSR6000 ELECTRONIC KEYBOARD VIDEO MANUAL



Yamaha's PSR6000 is a home keyboard with a difference, and offers many professional features plus excellent sound quality. Tim Walter starts at the beginning and makes the instrument look easy and fun. His enthusiasm is catching, and yes, the PSR6000 is a very capable instrument. The tape runs to 75 minutes, which makes for excellent value.

CODE V029 £19.99
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND GR-1 GUITAR SYNTH

These two video manuals have been produced to help the user get the most out of Roland's sophisticated GR-1 guitar synth, the first covering all the basics from mounting the pickup and getting tuned up to selecting sounds and using the on-board sequencer. Each step is patiently explained and demonstrated by Roland's guitar synth specialist, Jay Stapley.

The Advanced tape takes the mystery out of sound editing, custom tuning, advanced sequencer applications, external sequencer hookups, using other MIDI sound modules, indeed virtually everything the GR-1 is capable of doing. If you own a GR-1 or are thinking of buying one, do yourself a favour and order these indispensable videos.

CODE V014 ONLY £29.99 FOR 2 VIDEOS
Total Running time: 4 hours Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

STEINBERG CUBASE

This manual is presented by Chris West, Steinberg expert. It's very much a practical, 'get up and running' video, showing the novice user exactly how to install and begin using Cubase, whether they're running the program on an ST, Mac or PC computer — there's even a basic background on using the computers themselves! All of Cubase's controls are shown, explained and demonstrated in depth. Once you're familiar with the basic controls, Chris takes you slowly through recording your first session, followed by overviews of the various edit screens. It's rather like having an expert tutorial that you can run again and again in the comfort of your home, until you can use Cubase like a true pro.

Topics covered include; the main screen, customising names and outputs, copying and pasting between arrangements, MIDI file, cycle mode recording, the tool box, all edit screens.

CODE V011 £29.99
Run time: About 30 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

KORG AX30G TONEWORKS VIDEO MANUAL



The Toneworks series of guitar processors from Korg gets a real work out on this 55 minute tape. Korg's guitar demonstrator Steve Fairclough whizzes through the G1, G2, G3 and the flagship AX30G and provides clear explanations of how each unit works. And to put the units into context, there's lots of footage of Steve showing off the sonic capabilities of each processor (not to mention his prowess as a guitarist).

ORDER CODE V028 £19.99
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BAND IN A BOX 6.0 BASICS FOR WINDOWS

Designed to get the new user, and those less familiar with Band In A Box, up and running quickly and easily. Experienced users can also benefit from the in-depth tutorials which cover Basic MIDI, MIDI Connections, Custom Patch Maps, Screen Layout, Juke Box, Printing, Recording & Editing Melodies, Importing & Editing Styles, Drum Editor, Masks, Assigning Instruments.

CODE V031 £34.99
Running time: 88minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

3 CAKEWALK 3.0 VIDEO MANUALS

CAKEWALK 3.0 For Windows

A collection of three videos on the Cakewalk Professional system for Windows, covering just about everything you would need to know to become totally proficient with Cakewalk. If you own Cakewalk Home Studio — no problem! The videos cover everything Cakewalk Home Studio is capable of and more...

BASICS

Basic MIDI, Step & Realtime Recording, Playback Features (on the fly), Editing Features, Graphic Views, The Inspector Menu, Menu Overview, The Control Bar

CODE V032 £34.99
Running time: 120 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BEYOND BASICS

This video explains Customising Cakewalk, Extract Merge, more graphic Views, Advanced editing, the Settings Menu, Synchronisation, Embedding Wav Files and more...

CODE V033 £34.99
Running time: 113 mins
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

CAL

Programming Fundamentals, Creating a Program, Creating a CAL Program, How to use CAL Programs, CAL Examples, Automating Tasks, Tips on working with CAL, Creating Computer Music, Troubleshooting.

CODE V034 £34.99
Running time: 90 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95



JUST ARRIVED!

MACKIE ULTRA MIX VIDEO GUIDE

This highly informative video for the Ultramax automation system, clearly demonstrates how to set up and use Ultramax's many time-saving features to get the best from your system. The cost of the video may be redeemed against the purchase price of an Ultramax system, making the video a good way to try before you buy!

CODE V066 £9.99
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND G800



Presented by Roland UK's product demonstrator Sara Reybould, this video covers every essential feature and function of the Roland G800. Sara provides the user with a wealth of knowledge on this sophisticated instrument, with recourse to many practical examples and close-up shots of the LCD screen. The video was produced in association with Roland USA and Roland UK to ensure that the content is accurate and informative.

CODE V060 £19.99
Running Time: 92 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND GR09

Presented by Roland UK product demonstrator Nick Cooper, this application-based tutorial video for the Roland GR09, produced in association with Roland USA, covers every function completely. Covered topics include; the GK2A Synthesiser Driver, pickup sensitivity, use of the tuner, what a patch consists of, use of the pedals, patch edit 1 & 2 (including layering and detune, chromatic function, reverb & chorus, edit target, pitch shift), the use of external midi devices, saving to an external sequencer & more.

CODE V061 £19.99
Running Time: 57 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND JV-1080



Roland's amazing JV-1080 synthesizer module is covered in detail in this informative video. Presented by Tim Walter the video the video guides you through the basics, and leads you painlessly onto the advanced features. The video even shows you how to

fit the expansion boards & gives demonstrations of some of the wonderful sounds they contain. Once again this video has been produced in association with Roland UK & USA to ensure that everything it contains is accurate, and relevant to the new and more experienced users alike.

CODE V046 £19.99
Running time: 80 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND XP-50

This XP-50 video owners manual is produced by Roland Corporation US and covers all the major features of the instrument in detail. This is an application based video that provides many examples of how your new found knowledge can be applied. Just a few of the 30 separate topic areas covered are: Effects, Choosing Sounds, Loading a Song, Loop Recording, Copying a Track to Pattern, Making an RPS Set, Track Editing, Multitrack Recording, Patch Editing, Creating Splits & Layers in a Patch.

CODE V063 £24.99
Running time: 63 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

WINDOWS 95: WHAT WILL YOU LEARN TODAY?



This video is aimed at new Windows 95 users and goes from basic to in-depth advice, covering topics such as minimum hardware requirements and common problems, and providing useful tips and tuition. The video also features Labyrinth's Video Index System to help the user locate particular topics, by means of on-screen timecode and an

index booklet. The video is written by computer journalist Ian Waugh.

CODE V065 £19.99
Running time: 74 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

EVERYTHING YOU



WANTED TO KNOW ABOUT PCs BUT WERE AFRAID TO ASK!

Written by Ian Waugh This video has been produced in response to the number of potential PC buyers and existing new users who do not fully understand the jargon and basic operating procedures associated with PCs. It covers everything from 'What is a PC' to the 'Internet'. There is even a Windows tutorial, and a DOS basics section. (Over 120 different sections.)

It includes a booklet listing all the main and sub sections along with their respective TimeCode number for easy access when used as a reference tool.

CODE V048 £19.99
Running time: 91 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

KORG PROPHECY VIDEO MANUAL

Written by Phil MacDonald Korg's new Prophecy Synthesizer now has its own video manual! The video covers all the major features over 6 sections, with lots of examples of the amazing effects that are available using the 'log' and 'mod' wheels. The video's visual interest is maintained by the extensive use of Chroma Key and multi camera effects. This is a video that is ideal for new owners, and those who want to know more about the Prophecy before they make a purchase.

CODE V049 £14.99
Running time: 36 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BOSS ME-8



Nick Cooper (Roland UK product demonstrator) explains every single feature and function of the ME-8 in detail. The unit is clearly explained in a logical sequence with examples given of how the functions effect the available sounds, a perfect aid to new users of the ME-8 and those who would like to get that little bit more from it. Just some of the main points covered are: What is a Patch?, Selecting a Patch, Copying a Patch, Edit Mode, Using The Effects, Control Effects, The Tempo Function, Manual Mode, and lots more.

CODE V064 £19.99
Running time: 72minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

SOS Videos

EMAGIC NOTATOR VIDEO



EMAGIC TRAINING MANUAL
This video manual is detailed and helpful, and is presented in a most friendly and approachable manner by session musician Tim Walter, whose tone throughout the video encourages and inspires confidence. If you are new to Notator and are still in awe of its power, this is the video to bring you down to earth. An introductory and 28 tutorials take the user from the absolute basics - including plugging in the dongle - to working with Undo and SMPTE, and synchronising to video. As well as actual recording of MIDI data and sequencing, comprehensive coverage is given to using the score layout and printing facilities that are so much a part of Notator. Topics covered include: sequencing page, score editing, lyrics and text, graphic arranger mode, hyper edit, the printer page, using the part box.

CODE V012 **ONLY £19.99**
Running time: 2 hours 20 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

KORG X3

This video offers an easy way in to this powerful workstation. It starts from absolute basics, including audio connections and volume levels, and the clear and helpful script covers all basic facilities of the X3. The video features a sophisticated use of picture in picture, with the X3's display cut into the main image to show you clearly what Phil is actually doing, and main points are reinforced with on screen text and graphics. The main section headings are:

- X3 Audio Connections • Getting Around the X3
- Factory Disk • Disk Drive Modes
- Selecting Sounds • Global Modes • Sequencer Mode • Quick Sound Editing
- Playing MIDI Files on the X3 • Using the X3 with an external sequencer

Note that these are loose headings, with each section also containing information on connected subjects in varying amounts of detail. A lot of ground is covered, and we can recommend the tape to any X3 owner.

CODE V018 **£19.99**
Running time: 55 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

HOW TO GET A RECORD DEAL

The facts you need from the people who know. How To Get A Record Deal contains vital information and insight that you will not find anywhere else, from artists and executives who have made it and know what it takes. On this video music industry pros give you the straight facts on how to break into this extremely competitive business. Because sometimes the difference between success and failure is information.

Presented by the National Academy Of Songwriters

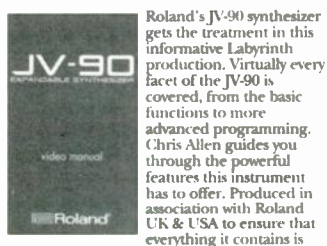
CODE V003 **£14.95**
Running time: 1 hour 7 minutes
Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BOSS DR-5 DRUM MACHINE

Presented by Nick Cooper (Roland UK Product Specialist) this video covers all the functions of the DR-5 in a clear and concise manner. Produced in association with Roland UK & USA. By using the information gathered from Roland 'helplines', particular attention has been paid to the areas that many users find most difficult. In this makes it of interest to beginners and experienced users alike. Nick imparts the information with ease and a professional manner, making it enjoyable and entertaining.

CODE V043 **£19.99**
Running time: 57 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ROLAND JV-90 SYNTH



Roland's JV-90 synthesizer gets the treatment in this informative Labyrinth production. Virtually every facet of the JV-90 is covered, from the basic functions to more advanced programming. Chris Allen guides you through the powerful features this instrument has to offer. Produced in association with Roland UK & USA to ensure that everything it contains is accurate, and relevant to new and more experienced users alike.

CODE V044 **£19.99**
Running time: 70 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ANALOGUE HEAVEN



Remember our feature on the opening day of the Museum of Synthesizer Technology which we ran back in October 1994? Wish you'd actually been able to attend?

Well, now you can have the next best thing: the museum has released a fascinating 50 minute promo video that features footage shot on the day as well as a lightning tour of the facility. The program is hosted by SOS contributor Julian Colbeck. The tape opens with synth pioneer Bob Moog making the inaugural speech and officially opening the museum, followed by a nostalgic run through one of his old modular systems. Analogue Heaven makes diverting viewing for anyone interested in vintage synths, represents good value, and offers the perfect companion to the Museum's guide book, also available from SOS Bookshop.

CODE V026 **£12.95**
Running time: 50 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

MASTER TRACKS PRO 4/5



BASICS FOR WINDOWS & MACINTOSH

All the basic functions of Master Tracks, from installing the software to advanced editing. Everything you need to know to get you started and beyond in easy to understand step-by-step instructions.

Basic MIDI, Track Editor Window, MIDI Settings, Screen Layout, Conductor Window, Transport Controls Window, Inserting Measures, Step & Real Time Recording, Event List Editor, Piano Roll Editor, Quantising, and much more.

CODE V041 **£34.99**
Running time: 105 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ORDER YOUR VIDEO NOW!
01480 461244

PERFORMER 5.0 BASICS

FOR MACINTOSH

Expert tuition covering the basics and more for Performer 5.0. This video will provide you with all that you need to know, covering all the major topics: Basic MIDI, Tracks Window, Multitimbral Operation, Patch Changes, Time Signature & Meter, Real & Step Time Recording, Event List/Graphic & Notation Views, Regional Editing, Quantisation, Transposing, Copy/Cut/Paste/Merge & Erase, Loop Recording, Track Palette, Device Groups, Counter Window, and much more.

CODE V042 **£34.99**
Running time: 87 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

KORG X5 SYNTH



Korg's new X5 synthesizer, reviewed in SOS' January 1995 issue, now has its own video manual. Presented by Tim Walter in an entertaining and lighthearted manner, and explains all basic aspects of Korg's highly affordable instrument in very clear terms. If you're in any way daunted by your new purchase, or want to get a feel for the instrument before laying out your cash, this is the video for you.

CODE V027 **£19.99**
Running time: 55 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

YAMAHA QY20 MUSIC SEQUENCER VIDEO MANUAL



by Tom Robinson
Yamaha's popular QY20 portable sequencer/sound source is a deceptively simple device to use; if you think you might like some insight into getting that little bit extra out of the device, then look no further. Produced in co-operation with Yamaha, the video features mobile musician Tom Robinson showing you how to get the best from this portable marvel. Tom, who has used the QY20 extensively as a writing tool on the road, says: "I never leave home without it".

CODE V016 **£19.99**
Running time: 90 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

HOW TO GET THE MOST OUT OF HOME RECORDING 3 TOP CLASS VIDEOS

A superbly presented set of videos which no home recordist should be without. Have you got your set yet?!

LEVEL ONE



This well presented video explains how to set up and operate a simple cassette-based multitrack home studio. It clarifies all the basic terminology and demonstrates the recording of a song from beginning to end, covering how to record

guitars, keyboards, vocals and drum machines; which microphones to choose; how to patch in effects units and use them well; what makes a good arrangement; what makes a good mix; plus what to master on to and why. Full of professional tips and clear examples, this superb video offers the musician with no recording experience a fast route to successful operation of a simple home studio.

CODE V005 **£24.95**

Running time: 1 hour 10 minutes
Format: VHS (PAL) HiFi Stereo
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

LEVEL TWO



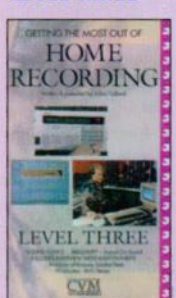
This is, in our opinion, the best ever guide to the equipment and skills needed to produce high quality results from a home studio. Full of clear examples and graphic information, the video majors on effects and how to use them well. It also covers the do's and don'ts of track bouncing;

microphones and mic techniques for different applications; getting the most out of multi effects units; plus an analysis of guitar effects with top session guitarist Milton MacDonald and an enlightening interview with ace producer Alan Parsons. Writer/presenter Julian Colbeck packs the programme with professional tips, allowing musicians of all kinds to get the most out of their home studio.

CODE V006 **£24.95**

Running time: 1 hour 45 minutes
Format: VHS (PAL) HiFi Stereo
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

LEVEL THREE



This video is packed with information and professional tips on advanced MIDI applications in the home studio, including interfacing with sequencers, which sync code is best for which application and why. Hit producer Martyn Phillips (Erasure,

London Beat) discusses modern recording techniques, and top programmer Paul Wiffen examines the opportunities and benefits offered by hard disk recording. It offers practical advice on sampling - how to save time and tracks; plus professional tips on advanced arranging and mixing techniques, including spectrum mixing.

CODE V007 **£24.95**

Running time: 1 hour 30 minutes
Format: VHS (PAL) HiFi Stereo
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

GETTING THE MOST OUT OF THE KORG M1



Written and presented by Julian Colbeck
The Korg M1 is a classic instrument. The range and quality of its sounds has made it one of the most successful synthesizers of all time. But because the M1 is so immediate, it's too easy just to scratch the surface, leaving many of its exciting capabilities undiscovered. This highly informative video enables M1 owners to unleash the full creative potential of this enormously powerful workstation. With plenty of musical examples, tips and inside information, the video offers clear, concise explanations of the instruments features and operating procedures, helping you to greatly expand your dexterity and creativity across the whole range of this world-beating instrument.

Comes with a FREE exclusive custom library of fabulous new M1 sounds on Atari format floppy disk (100 Programs, 100 Combinations) created by ABWH/Yes programmer Chris Macleod.

CODE V002 **£24.95**

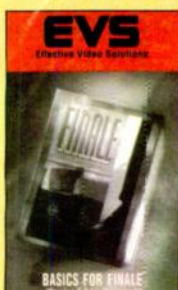
Running time: 1 hour 10 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

OVERNIGHT DELIVERY OPTION: ONLY £5.00! See Order Form for details

4 FINALE 3.0 VIDEO MANUALS

FOR WINDOWS & MACINTOSH

Four superb videos covering the Windows Version and four for the Macintosh version. From Basics through to the most Advanced topics in Power User, these detailed videos will guide you through Finale, giving you the knowledge you need to become a Finale expert with ease.



CODE V037 £34.99
Running time 123 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BASICS

MIDI setup, Tool Palette, Default File, Customising Templates, Drawing Slurs & Expressions, Key & Time Signatures, Metatools, Music Spacing & Allotments, Printing, Measure & Page Layout, and much more.

CODE V037 £34.99
Running time 123 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

BEYOND BASICS

Custom Instrument Library, Font Size, Pickup Measures, Measure Number Enclosures, Chord (midi & manual input), Finale Chords, Guitar Fret Boards, Mirroring, Mass edit Menues, Transposing, Alternate Notation, Moving Layers, and much more.

CODE V038 £34.99
Running time 92 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ADVANCED

Clef Changes, Text Blocks, Tempo Tool, Multi-measure Rests, MIDI Tool, Making an Ossia, Optimising Staves, Custom Score Layout, Page Tool, Multiple Windows, Tiling Pages, and much more...

CODE V039 £34.99
Running time 75 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

POWER USER

More Options Menu, MIDI Tool, Optimising Staves, Using Clip Files, Grouping Staves, Using a Macro Program, Shape Designer, Importing MIDI Files, Multiple Windows, Short Cuts, Hints & Tips, Advanced MIDI Topics, Tiling Pages, and much more...

CODE V040 £34.99
Running time 108 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

THE EMAGIC LOGIC TUTORIAL VIDEO VOLUME 1

Produced by Emagic themselves, this video once again sees Tim Walter (featured on the excellent Notator video) in the tutor's chair. There are plans for a series of videos which become ever more detailed and informative, but for now Volume 1 takes you through the first steps of getting the software up and running, and covers virtually all the controls you'll need. This video is valid for all versions of Logic, whether being run on an ST, Mac or PC. Presentation is rather intriguing, with a mobile camera that helps to hold the interest more than the average training video and some interesting graphics that aid comprehension and help to quickly find specific tutorials and bits inside tutorials. Contents as follows:

- Tutorial 1: The Arrange window and basic sequencing
- Tutorial 2: Playback parameters & Toolbox
- Tutorial 3: Controlling MIDI data flow
- Tutorial 4: Manipulating sequence data
- Tutorial 5: Moving around in Logic
- Tutorial 6: Windows and key commands
- Tutorial 7: More sequencing
- Tutorial 8: Score
- Tutorial 9: Looking at the Event List
- Tutorial 10: Editing the Event List
- Tutorial 11: Using the Environment
- Tutorial 12: The best of the rest (HyperEdit, Matrix Editor, Cycle Mode and more).

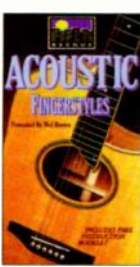
CODE V023 £29.99
Total running time 70 minutes Format: VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ACOUSTIC FINGERSTYLES

Presented by Mel Reeves

In this video there are 5 major instrumental studies to work through including country, classical and blues. Each style is broken down into small sections allowing you to learn more quickly and efficiently. Each piece is demanding, but great fun to play. The final section looks at styles and techniques used by players such as R.E.M.

The Eagles, Sheryl Crow and Paul Simon, and provides an insight into creating new and interesting fingerstyles of your own.



CODE V059 £12.99
Running time approx 90 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ACOUSTIC BLUES GUITAR

Presented by Mel Reeves

Whether you can already play fingerstyle guitar, or are simply familiar with basic chords, this programme will show you all of the necessary techniques to play great blues guitar. All of the technical aspects are explained in the clearest possible way before getting down to the real business of learning 5 real blues that are great to listen to and terrific to play.

CODE V058 £12.99
Running time approx 63 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

PLAY KEYBOARDS NOW! MELODIES

Presented by Mel Reeves

This programme will not only teach you note reading, rhythm, rests, ties and how to move up and down the keyboard with ease, but will also teach you 6 complete melodies familiar to lovers of rock, pop and classical music.

In addition, there is a further look at improvising, making use of melody and scales combined.

Clear computer graphics and the booklet enclosed will mean you won't miss a thing.

CODE V057 £12.99
Running time approx 55 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

YAMAHA QY300 VIDEO MANUAL

Complete overview of Yamaha's new QY300 sequencer/sound source. Presented by Joe Ortiz of Heavenly Music, the video offers a hands-on tutorial on what is potentially a very powerful piece of hardware. Starts off with a runthrough of QY300 features, followed by a clear, step-by-step tutorial that introduces you to creating your own sequences and styles. As a bonus, the video comes with a free disk loaded with 6 new QY300 styles and 6 demo sequences.

CODE V025 £19.99
Running time 69 minutes Format VHS (PAL)
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

ENCORE 3.0 FOR WINDOWS

The basics of Encore for Windows is covered, with in-depth tuition over 83 minutes. Everything you need to get up & running is here. Basic MIDI, Score Layout, Accidentals, Key Signatures, Note Editing, Step Time Entry, Adding Staves, Click Setup, Record Setup, Linear View, Quantisation, Editing, Printing, Staff Position & Spacing, and much more...

CODE V036 £34.99
Running time 83 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

CUBASE 2.6 BASICS FOR WINDOWS

Practical guide to Cubase for Windows covers all the basic functions, ideal for the new user and those who need added insight into this complex system.

Contents: Basic MIDI, Value Selection, Arrangements, Arrange Window, Transport Functions, The Inspector, The Toolbox, Quantisation, Grid Editor, Step Recording, and much more.

CODE V035 £34.99
Running time 85 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

PLAY HEAVY METAL NOW!

A concise, easy to follow video guide to real heavy metal playing for guitarists of all levels. A guide to hard rock/heavy metal techniques for guitarists of all levels. The programme covers RHYTHM, SOLOING, and TECHNIQUE. All of the techniques, solos, etc are clearly demonstrated. No need to read music. Free booklet contains tab, chord and scale diagrams.



CODE V052 £12.99
Running time approx 65 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

START HOME RECORDING NOW!

This is the ideal volume one guide to the use of home recording equipment. From the set up of basic 4-track cassette machines to sub-mixing Mel Reeves uses straight-forward language to talk to fellow musicians about the methods used to get the sounds in their heads onto tape. Includes free instruction booklet.

CODE V055 £12.99
Running time approx 55 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

PLAY GUITAR NOW! ACOUSTIC & ELECTRIC

An easy-to-follow video to take you from the basics to a full rock solo.

The programme covers TUNING, CHORDS, FINGERSTYLE, 12 BAR BLUES, BARRE CHORDS and ROCK SOLOING for both electric and acoustic guitars. Includes free chord/tab booklet.

It is not necessary to be able to read music to learn from this video.

CODE V053 £12.99
Running time approx 51 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

PLAY BLUES NOW!

A complete guide to blues guitar playing that shows a variety of blues rhythm and soloing styles — for both beginners and advanced players alike.

Learn the blues style of Eric Clapton, Stevie Ray Vaughan, Peter Green, etc. The programme not only covers the usual blues shuffles and scales but using 4 complete songs, gives you the resources and techniques to create professional blues parts and solos in a wide variety of blues styles.

CODE V051 £12.99
Running time approx 50 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

PLAY KEYBOARDS NOW!

Presented by Mel Reeves

An up-to-date video/booklet that gets to the heart of modern keyboard playing with no need to read music!

All you need to be able to create pop, rock and even jazz chord accompaniments using major, minor, seventh, sus 4th and added 9th chords. Learn arpeggios, random arpeggios, chord 'splitting', crushed tones, boogie blues, inversions and much more.

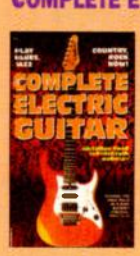
Free instruction booklet and stickers included.

CODE V054 £12.99
Running time approx 60 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

COMPLETE ELECTRIC GUITAR

Presented by Mel Reeves

Learn how to create solos and rhythm parts in any style! The programme covers ROCK 'n' ROLL, BLUES, JAZZ, COUNTRY, ROCK and FUSION and much, much more. Plus the clearest possible guide to chord and scale construction, tonal centres and working out parts for yourself. Includes free construction booklet.



CODE V050 £12.99
Running time approx 65 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

COMPLETE ACOUSTIC GUITAR

Presented by Mel Reeves

Whether you only know a few chords, or are already proficient, this easy-to-follow programme will show you all of the main guitar styles, as performed on the acoustic guitar. As well as learning tips and 'tricks of the trade' Mel Reeves will show you 6 great instruments, step-by-step and take your playing to new heights. Plus, open tuning, the capo, high-strung guitar, reading music and more!

Styles include: Guns 'n' Roses, Bon Jovi, Hendrix Blues, Mississippi Blues, Django Reyle Jazz, Nuits En Moscov, Classical, Romance, Carter Style, Buffalo Gals and Bottleneck /Slide Style.

CODE V056 £12.99
Running time approx 78 minutes
Postage: UK £1.75, Europe £4.95, R.O.W. £6.95

SOS CDs

SOUND CHECK TEST CD

Impeccably recorded and compiled by Alan Parsons and Stephen Court. Sound Check CD contains 92 tracks of test signals and reference recordings made at Abbey Road Studios that can be used to set up monitors, check room performance, faulty equipment etc, and overall recording quality. No studio should be without one! 20+ close-miked instruments/vocals/ music extracts. SMPTE/EBU timecode tracks (25, 30, drop-frame). Pink noise test tones. Third octave tones. Sweep tones. Sine + Square wave tones.

CODE CD029 ONLY £19.50
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

SYNTHESIZER TECHNOLOGY ASTRAL AMBIENCE CD

Hours of research and endeavour in the raw timbral archives of the largest collection of analogue synthesizer systems in the world have resulted in the release of the first in a long awaited series of creative resource CDs.

The vast psycho-acoustic spectrum of the Museum of Synthesizer Technology has now been opened up to the music-making populace — Over 1500 samples.

CODE CD036 £32.95
Postage: UK £1.50, Europe £3.95, R.O.W. £5.50

WIN

NOVATION BassStation Rack



Go back to the future and win Novation's classic analogue synth sound module, described in our *SOS* review as "a true, programmable monosynth for the '90s" and "tremendous fun and an unqualified bargain at £399". Features include two oscillators with standard waveshapes, a voltage controlled filter with resonance, plus an LFO and two envelopes for filter/pitch/pulse width modulation, all housed in a handy 1U rack unit. The BassStation Rack is fully conversant with MIDI and includes real-time transmission and reception of filter and envelope controls —

perfect for live 'tweaking' and recording on your MIDI sequencer. There's even a built-in MIDI to CV converter to allow you to control other analogue synths.

To enter, use your skill to select the correct answer to each multiple-choice question below, and complete the tie-breaker. (See our review of the BassStation Rack in *SOS* July 1995, if you require inspiration.) Then, send your completed entry form to the address below, to arrive no later than

Friday, August 9th 1996.

Prize kindly donated by Novation. Tel: 01628 481992.

the small print

1. Only one entry per person is permitted.
2. Employees of Sound On Sound Ltd, Novation Electronic Music Systems Ltd, and their immediate families are ineligible for entry.
3. No cash alternative is available in lieu of the stated prize.
4. The competition organizers reserve the right to change the specification of the prize(s) offered.
5. The judge's decision is final and legally binding, and no correspondence will be entertained.
6. No other correspondence is to be included with competition entries.
7. Please ensure that you give your DAYTIME telephone number on your entry form.
8. Prize winners must be prepared to make themselves available at the event that the competition organizers wish to make a personal presentation.

QUESTIONS

1. Which of these is not a Novation product?

- a. BassStation
- b. DrumStation
- c. SpaceStation
- d. RaveStation

2. What does 'CV' stand for on the BassStation Rack?

- a. Curved Velocity
- b. Curvaceous Voluption
- c. Controlled Velocity
- d. Contra Voltage

3. What standard oscillator waveshapes are offered by the BassStation Rack?

- a. Square, Saw, Pulse
- b. Soft, Blur, Pulp
- c. Saw, Square, Triangle
- d. Rhomboid, Hammer, Saw

4. What is the cutoff frequency range of the BassStation Rack's filter?

- a. 0Hz to 5Hz
- b. 5Hz to 10kHz
- c. 5kHz to 100kHz
- d. 5MHz to 100MHz

TIE-BREAKER

In not more than 30 words, describe the essential features of a new product that you think Novation should manufacture

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Please tick box if you do not wish to receive further information from Novation.

Name

Address

.....

.....

Daytime tel. no

Post your entry to: *SOS* Novation Competition, Sound On Sound, Media House, Burrell Road, St Ives, Cambridgeshire, PE17 4LE.

CLASSIFIEDS

☎ 01480 461244 Fax 01480 492422 - Patrick Shelley

DISPLAY BOX

£26.00 + VAT

per single column centimetres
 (includes postage for airways)

SITUATIONS

VACANT

£90.00 + VAT
 per single column centimetres

LINEAGE

80 pence per word
 including VAT
 (minimum of 12 words)

Classified Dept., Sound On Sound, Media House, 3 Burrell Rd, St Ives, Cambs PE17 4LE

(3 column page). Spot colour available on request.

Box Numbers available at an additional £25.00 per insert.

The circulation of advertisements is shown in the Business Administration Handbook (Issue of 1997), which is available free from the IFA January 1998. All advertisements by persons who seek to sell goods or services to business bear risks that fact sheet. For the latest data, conditions, terms, conditions, please refer to advertisement insert to a sales or a trade or a private individual.

Index to Advertisers

| | | | | | | | |
|-----------------|---------|--------------|---------|-------------------|---------|-----------------------|-----|
| Artists Wanted | 259 | Duplication | 254-259 | Insurance | 259 | Situation Vacant | 252 |
| Clubs | 261 | Flight Cases | 258 | Licensing | 254 | Soft Cases & Covers | 259 |
| Courses | 260-261 | For Hire | 259 | Recording Studios | 253/263 | Studio Acoustics | 261 |
| Digital Editing | 259 | For Sale | 244-253 | Services | 262-263 | Tuition / Programming | 261 |

Studio Clearance Sale

All prices are o.n.o. and plus VAT. Part Exchange considered

| | | | |
|--|-------|---|------|
| Quartet Q12 Studio Monitors, ATC crossover, 3 Yamaha Power Amps..... | £2600 | JL Copper Rack Mount MIDI to CV and Gate Converter..... | £150 |
| Hammond C3, As New, unsplit in flightcase, with pedals and Leslie 147..... | £2200 | Yamaha Mup 4 MIDI Processor..... | £150 |
| Hammond C3, As New, unsplit in flightcase, with Leslie 147..... | £2100 | Yamaha M16 802 Rack Mount Line Mixer..... | £150 |
| Roland MKS 50 and Programmer..... | £275 | Alesis HR 16 Drum Machine..... | £120 |
| Roland MKS 70 Rack Synth..... | £475 | Roland MC 500 MK2 Sequencer..... | £250 |

Phone 01306 889131. 10am to 7pm

ALL MPC USERS

Excellent prices on all Turtle Beach sound cards Saw Quad Cakewalk Pro Audio and Cubase Audio
 Complete hard disk recording packages available

Secondhand recording equipment available including...

| | | | |
|-----------------------------------|------|------------------------------------|---------------|
| Fostex M80 Rackmount & looms..... | £625 | Drawmer DS201 dual noise gate..... | £200 |
| Seck 18:8:2 mixer..... | £649 | XRI XR300 SMPTE..... | £95 |
| Slapback Audio Vocal Exciter..... | £75 | Various mics..... | from £15 each |
| Drawmer LX20 dual compressor..... | £195 | 2 off Rackmount trolley's..... | £45 each |

Contact: Musical Technics - Tel: 0121 445 3572 evenings & weekends welcome

FOR SALE

MULTITRACK SALES CENTRE

| | |
|--|---------|
| KURZWEIL K2000R / SAMPLER (V3 8Meg) .. | £1599 |
| FOSTEX E16 (excellent condition) | £1499 |
| FOSTEX B16 (new relap head)..... | £1299 |
| AKAI S900 + LIBRARY | £350 |
| TASCAM 238S (new) | £795 |
| FOSTEX R8 (new) | £975 |
| ALESIS A-DAT XT (20 hours) | £ 1899 |
| ALESIS A-DAT (94 hours V4.3)..... | £OFFERS |
| ROLAND SRV2000 | £299 |
| YAMAHA DEQ 7 (Digital e.q.) | £495 |
| TASCAM DA88 (180 hours) | £offers |
| TASCAM RC848 (big remote)..... | £699 |
| ROLAND TB303..... | £OFFERS |
| AKAI S950 (fully expanded) | £699 |
| EVENTIDE H3000 D/SE (unused as new) .. | £1800 |
| KORG DSS 1 (sampler synth) | £499 |
| FOSTEX 812 (12/8 new) | £695 |
| TASCAM M2600 32:8 (8 aux as new) ... | £1899 |
| FOSTEX R8 (v.g.c.) | £699 |
| AKAI DR4D (MIDI + SMPTE card) | £799 |
| YAMAHA PROMIX 01 (new) | £1399 |
| AKAI S3000 (8meg + dig board)..... | £1499 |
| E-MU PROTEUS 1 | £275 |
| TASCAM 1508 (mint) | £499 |
| DIGIDESIGN A-DAT DIGI INTERFACE... .. | £699 |

* PART EXCHANGE WELCOME *

ALL STUDIO & MUSIC EQUIPMENT

WANTED

FOR CASH NOW !

☎ ASCOT (01344) 891110
 or (0831) 882666

Hands On MIDI Software Ltd

Superior quality MIDI files - suppliers to I.B.M., Roland, Yamaha and Microsoft

MIDI SONG FILES
 From **£4.95**

Large Library of hit songs.
 Easy to Use - All songs are Configured for GM, GS & XG devices for 'hassle free' use
 All major platforms/Keyboards supported - IBMpc, Mac, Atari, Korg, Yamaha, Roland, Technics, Alesis DDSQ etc.,
 Fast Delivery - All orders are normally dispatched first class post same day.
 Quality - Look at the company we keep!
 Unparalleled technical support.
 Comprehensive Documentation.
 Lyrics available to every song - free to computers users!

Bulk Discounts Available

The Hits are BACK!!! - Latest Releases

Lifted - Lighthouse Family
 Give Me a Little More Time - Gabrielle
 Children - Robert Miles
 Missing - Everthing But The Girl
 Ooh Ahh Just A Little Bit - Gina G
 Fast Love - George Michael

from - Hands On Deutschland

**STOP PRESS!!
 TAKE THAT SONGS NOW AVAILABLE**

NEW MIDI Chords for PC
 Only - **£19.95**

Automatically analyses a MIDI file and prints out the Chords

Got an Atari?
 Want a MIDI file player?
 You've already got one with.....

OnStage

OnStage Pro - £99.95
 OnStage - £79.95
 OnStage Soft - £39.95

Excellent Reviews

Crash Proof! - phone for details.

Sweet 16

16 Track, 32 MIDI channel MIDI Sequencer for IBMpc and Atari ST.
 Demo versions available.
 Excellent Value **£59.95**

All trademarks are Acknowledged. Prices and Specifications are subject to change without notice. E & OE.

Handbook of MIDI Sequencing

Covers all topics on MIDI Sequencing including Guitar, Brass & Drum programming!
 For Beginners to Advanced users
 Over 250 Pages
 This Book is "THE BIZ!"
 Order your copy Today!

Giveaway price of **£12.95**

Psst! Want 32 MIDI Channels for your Atari ST/STE?

16+ The Original £24.95

Suitable for Cubase (all versions), Creator/Notator, Mastertracks Pro.
Moneyback Guarantee!!

Call for your **FREE 34 Page Catalogue - NOW!**



"Hands On" Midi Software Ltd., 11 Warfield Avenue, Waterlooville, Hampshire PO7 7JN
 Tel: 01705 783100 Fax: 01705 783200 BBS Service: 01705 783400



FOR SALE



The **MACKIE 808BUS** console is the most acclaimed mixer in the world. Make your Mackie look even more brilliant - add a Mack Stack, which encloses the meter-bridge, hides the cables and creates a place for monitors. From £299.

Available from all good Mackie stockists.

For your nearest dealer contact:

Key audio systems Ltd.

Tel: 01245 344001 Fax: 01245 344002

Studio Systems

Specialising in Soundtracs Consoles

The **SOUNDTRACS** range:

LARGE PRODUCTION CONSOLES

QUARTZ 3212 (40-80mm) Multi Mono 8 aux / TT P Play
 DELTA 3636 + FX (40-80mm) 8 Aux / TT P Play (outlet Lit)
 CMX 3212/24 (16-80mm) 8 aux / 8 Aux / TT P Bay
 CM400 3212/24 similar to CMX

PROJECT / MID RANGE

M Series 3212 (16-80mm) 8 aux
 M300 3212/24 (16-80mm) 8 aux Multi Mate
 MIDI PC 2212 + FX (16-80mm) 8 aux Multi Mate
 MIDI PC 2412 (16-80mm) Multi Mate
 S.M.O. 12 and Toyaz

All consoles are serviced to full spec, guaranteed, and will give you years of sonic security!

Please call and check for stock / info and prices from:

Studio Systems

"THE HOME WHERE THE SOUNDTRACS ROAM!"

We have had over 12 years experience with Soundtracs range and carry virtually every spare part in stock. Call our Service Dept for technical advice and studio installation quotes.

If you would like to **SELL YOUR SOUNDTRACS** then call.

Tim Jones Studio Systems.

WATFORD 01923 267733 CELLNET 0850 373764

ADVANCED SOUNDS LTD

New & Used Equipment Sales

Selection of current used stock

(Telephone for new equipment prices)

| | | | |
|------------------------------------|-------|----------------------------|-------|
| Akai S1100 (18 Mins) | £1629 | Fostex DMT8 | £1199 |
| Allen & Heath GST (3 months) | £729 | Fostex 3045 (16ch Dolby C) | £499 |
| AKG 414 ULS (4 months) | £689 | J.L Cooper PPS100 Sync | £199 |
| Alesis SR16 (as new) | £169 | Kurzweil Microplano | £399 |
| Alesis ADAT XT (150 hours) | £2259 | Mackie 24/8/2 (2 months) | £2799 |
| Alesis BRC (as new) | £869 | Mackie 1202 VLZ | £325 |
| Alesis BRC (vgc) | £749 | Mackie 1402 VLZ | £439 |
| Apple Trinitron 14" Mon (3 months) | £215 | MIDI Timepiece 2 | £469 |
| Behringer Intelligate XR2000 | £215 | Roland VS880 + INT HD + FX | £1799 |
| Behringer Eurodesk (as new) | £1699 | Tascam SY88 for DA88 | £459 |
| Digitech Studio Quad | £399 | Tascam DA20 (5 months) | £599 |
| EMU Proteus 2 (3 months) | £569 | Tascam 246 (ex cond) | £335 |
| Fostex R8 (vgc) | £769 | Yamaha PFP100 Clavinova | £1099 |
| Fostex E16 | £1739 | Yamaha C3 Grand Piano | £5495 |

* Part exchange and equipment purchased for cash * Licensed credit broker * Multitrack and Keyboard Repairs * Well established co formed in 1983 * We can dispatch by courier overnight * Studio and Musical equipment hire dept including home recording packages. Prices include VAT.

TEL: 0181 462 6261 (OR 8621)

MUSIC IRELAND

MIDI SONG FILES

Excellent selection

COUNTRY - FOLK

OLDTIME & MODERN

Tel. 01504-265113 for free Catalogue.

Fax. 01504 265708

2 Demos available send £2.00 in stamps to;

Music Ireland

12 Killala Pk, Foyle Springs,
 Londonderry BT48 0DG

ROW AUDIO SALES

**NEW - USED -
 EX DEMONSTRATION**

| | |
|-------------------------------|-------|
| AKAI S950 FULL EXP | £870 |
| AKAI S3000 + 10MEG (EX DEM) | £1575 |
| KORG WAVESTATION EX | £875 |
| YAMAHA SY88 + ROM + CARDS | £700 |
| ROLAND JUNO 106 MINT | £500 |
| ROLAND SUPER SC88 (NOT VL) | £500 |
| ROLAND DMC 1 MODULE (EX DEM) | £400 |
| DBX 266 COMP/GATE NEW | £220 |
| ROLAND PC200 MKII EX DEM | £120 |
| ALESIS ADATS FROM V.4 | £1500 |
| A+H GS3 16/8/2 | £1100 |
| AKG C3000 MICS NEW | £290 |
| VARIOUS 4 TRACK FROM | £200 |
| VARIOUS 8 TRACK MACHINES (FR) | £650 |
| FOSTEX E16 | £1695 |
| STUDIOMASTER PRO-LINE 16/4/8 | £500 |
| CHEETAH M56 MODULE | £200 |

PHONE FOR UP TO DATE LIST

WANTED

ALL USED GEAR COMPLETE HOME OR
 PRO STUDIOS, SAME DAY COLLECTION
 BEST PRICES PAID. OPEN 7 DAYS

TEL 0161 483 8551 ANYTIME
 0860-105111 MOBILE



BIG BAD SOUNDS SAMPLE CD

"Pure Groove Inspiration"

Original Tranced Induced Distorted Acid Grooves, Moods, Atmospheres, Sweeps, Analogue distortions and more.

Percussion/Multi-Basses included.

Over 600Mb of Grooves and production sounds.

Add this to your collection!

£29.99 inc P&P

Tel / Fax 0151 353 0394

E-Mail address: amplebase@mail.cybase.co.uk
 Internet: http://www.cybase.co.uk/ample-sounds/

Ample Sounds UK

P.O. Box 18, Neston, South Wirral L64 3UX

twiddly bits

http://www.gmca.ie.net/keyfax

1 Vol 1 - General Instruments. £19.95 Plus £2 P&P
 Lots, Puffs, Runs, Slides, Rolls, Trills for Bass, Brass, Drums, Strings and many more. All played on the corresponding MIDI Controllers by world reknown players.

2 Vol 2 - Gate Effects. £12.95 Plus £2 P&P
 The classic studio effect "I was quite broadly amazed, not only by the simplicity of operation but also by the extraordinary transformation of a quite plain, ordinary sound." The Mix May '96

3 Vol 3 - Elec & Acoustic Guitars. £19.95 Plus £2 P&P
 Future Music Platinum Award. The ultimate Guitar "Bite" by Steve Hackett (Genesis), Milton McDonald (Eternal) and more.

4 Vol 4 - Drums & Percussion. £19.95 Plus £2 P&P
 Ever wanted Bill Bruford (King Crimson) or Gavin Harrison (Incognita) on your tracks? Over 700 "Bits".

5 Vol 5 - Country. £19.95 Plus £2 P&P
 "So good are the examples on this disk that it's hard to believe the performance are coming out of a GM module" said Paul White in Feb Sound On Sound.

6 Vol 6 - The Funk. £19.95 Plus £2 P&P
 Killer funk bits on a 70's top. Snake Davis (M-People), Shane Meshaan (Definition Of Sound), Cyril McCammon (Freakpower) and more.

Twiddly Beats - Brazilian Rythms. £19.95 Plus £2 P&P
 "If they weren't so darn danceable they'd be a fine educational tool". Keyboard US Nov '95.

Master Series - John "Rabbit" Bundrick.

£24.95 Plus £2 P&P

Rabbit's CV read like a who's who of rock; Mick Jagger, The Who, Free, Joan Armatrading etc. "A delightful collection" Keyboard Review May '96

AWE 32 CD ROM

Keyfax announce a superb CD ROM with sounds taken from; BassStation, Nord lead, CS80, Minimoog, Grand Piano, Bass, Guitars and much more. All recorded at 44.1kHz for optimum quality

Only £34.95 Plus £2.00 P&P

Keyfax Software P.O. Box 4408, Henley on Thames, Oxon, RG9 1FS

Tel: 01734 471382. E-Mail: 100705.3565

Keyfax Software U.S.A. P.O. Box 958, Aptos, CA95001. Sales line 408 688 4505 E-Mail jaiceeee@aol.com

FOR SALE

AARONSOUND

| | |
|---|------|
| TASCAM M0509 32/8 DESK 16 MONTHS OLD | £295 |
| SOUNDTRACS MEGAS 32/24 MIDI MINT | £195 |
| STUDIOMASTER P7 MIDI 24/8 16 MONTHS OLD | £165 |
| ALLEN & HEATH GS1 MIDI & UPTO 32CH | £245 |
| MAKIE CR1604 BOXED AS NEW | £295 |
| AKAI S110C 4MEG £1300 DIGITAL BOARD (OPTICAL) | £145 |
| AKAI B950 FULLY EXPANDED £650 S1000 2 MEG | £100 |
| HORG MS10 MONOSYNTH £175 SQ10 ANALOGUE SEQ | £40 |
| ROLAND D30 VGC £395 JX8P | £365 |
| MOOG PRODIGY | £235 |
| ROLAND R70 DRUMBOX (808 & 909) £265 DR660 | £225 |
| AKG C414B ULS MIC INC POP SHIELD & CLIP MINT | £595 |
| YAMAHA TX816 8 DX7s £745 TX802 | £325 |
| ASHLEY SC60 6 BAND PARAMETRIC EQ (1970's) | £145 |
| ROLAND A30 MASTERBOARD £245 PC200 MK2 | £140 |
| ROLAND JUNO 80 MINT £285 JUNO 6 | £195 |
| MICAMX MASTERROOM USA VINTAGE SPRING REVERB | £195 |
| SOUNDTY ECHOMASTER 2 DISC ECHO | £145 |
| EMT 140 PLATE REVERB (MASSIVE) | £195 |
| 16MEG SIMMS FOR AKAI XL SAMPLERS | £265 |
| 16MEG SIMMS FOR AKAI XL SAMPLERS | £85 |
| EVANS AEP25R ANALOGUE ECHO & SPRING | £145 |
| AKG BX1 SPRING REVERB | £140 |
| HÖPNER HS1E 2MEG SAMPLER (RESONANT FILTERS) | £145 |
| BRIMONS SPM 8/2 RACK MIDI MIXER | £145 |

ALSO

YAMAHA DMP7 £645, YAMAHA DX5 (2 x DX7's) £425, CUBASE V3 £150, ATARI & MON £195, AKAI ME35T TRIGGER £160, YAMAHA REX 50 £130, ROCKTRON PRO CHORUS £90, ROLAND SIP300 GUITAR PRE AMP £135, H.H. VX300 POWER AMP £245, AMCRON DC300 £345

ALL PRICES INCLUDE VAT

WANTED

All Gear & Studios for Cash

Overnight delivery - Same Day Collection

We are looking for: Analogue Synths & Drum Boxes, Outboard - FX Juno 106 Samplers, JD800 Mixing Desks etc. WE WILL SELL ALL YOUR EQUIPMENT ON BROWERAGE!

Fax / Tel 0161 442-8616

MOBILE 0831 1066-85

Keychange Music Services

The Musicians supplier of Atari Spares

Repairs and Upgrades.

Machines and Hi Res monitors always available

Try us for CD Rom drives and The Internet

Warrington 01925 266120

Bob Moog says

"THEREMINS are BACK" ..from £269!!

At last... an affordable THEREMIN! Now made in the USA by Bob MOOG's company, Big Brian, the ETHERWAVE THEREMIN is an authentic compact version designed to emulate the tone colour and playing characteristics of Leon Theremin's original designs of 70 years ago... hear the "Good Vibrations" ethereal sound WITHOUT TOUCHING ANYTHING!... and to help your playing technique, we include Lydia Kavina's "Complete Theremin Video"... please phone for more information...



"...it's a pleasant surprise to find the UK price at £269 inc delivery... (the Etherwave) is an improvising instrument... it puts out the sort of signal FX boxes love... a wonderful cost-effective way to own a unique sounding instrument... well designed, quite remarkable quality hardware, excellent instructions... sonically flexible... mounts on a mic stand... and made by the most famous theremin manufacturer living!..."
The Mix 1996 ?

- Kit version (model ETK) ...£269
- Assembled (model ETLB) ...£299
- Assembled + Turbo PCB (for midi) ...£329
- Package (ETLB Turbo + I/face) ...£775

with the interface the Theremin will control ANY MIDI device
 *Real time pitch readout "SIM MIDI" (Theremin conversion)
 *128 prog user patches *Hold via F-Switch (extra £40)
 *Midi merge *Twin 1 volt opt
 *8 oct tracking ...and more, call us for specs!

E-Mu
ORBIT
Has Docked

Sole UK/Eire distributor E-Mu/FOSTEX/Behringer specialists

SECOND GEAR

NEW HIRE SERVICE

2nd Floor Business Centre
 Forest Mills, Highurst Street
 NOTTINGHAM NG7 3QA
 0115-978-0582 (6 days 11-late)



Mail Order & Free Delivery

Roland

STANDARD MIDI FILES

We have a large selection of genuine Roland midi files albums in stock, Programmed by Roland, this collection is essential for Roland GS users. Over 20 albums are currently available, ranging from Classical thru Jazz to Rock and Reggae with lots more categories in between.

- Price: £11.99 Per Album
- Free Catalogue available featuring the entire range. Phone for your copy.

POWER BYTES

NOW AVAILABLE IN XG FORMAT

Power Bytes is a song construction package which offers the user a wide range of usable Drum, Bass, Guitar and other instrument patterns, including Wah guitar licks and Bass riffs in various styles, this product is designed to help you compose your own song sequences or Midi Files. Get an instant idea of what your compositions will sound like without having to spend hours sequencing the parts yourself. Power Bytes has recently received excellent reviews in the Music Press.

PRICE: £14.99 + P&P



STYLES FOR KORG

New I-series style disks available. Programmed by the team at Labyrinth. These currently available are:

- Pop Styles 1
- Big Band Volume 1
- Big Band Volume 2
- Dance/Rave Styles 1
- Rock Styles 1
- E.P. Ballads Vol 1

£7.95 per style disk!

A NEW CONCEPT IN STANDARD MIDI FILES

SMF's with Encoded Lyrics

The latest addition to our product catalogue is a collection of SMF compilations containing encoded lyrics which when used with the correct equipment will be displayed visually in synchronisation with the music. This collection will be particularly interesting to Roland G-800 and Roland F-96 users as the lyrics will display on the LCD screen of the keyboard. In addition, software programs such as the Tune 1000 "Soft Concert" or Cakewalk Professional packages will also display lyrics on your computer screen in this fashion. Apart from the Motown & Soul Greats, the remaining Album titles shown above are available with encoded lyrics at the price of £14.95 Per Album



STYLES FOR Roland

Labyrinth are now able to offer a range of new style disks for the Roland E-86 and G-800 keyboards. There are currently 4 disks available for each keyboard with new styles ranging from Country through to Waltzes and everything in between. Each disk is priced at £14.99. Please phone for your FREE LIST of what is available.

Labyrinth midi file Albums

NEW ADDITIONS

NOW AVAILABLE WITH ENCODED LYRICS (SEE BELOW)

We have increased our collection to 7 compilation albums. There are lots more on the way. Stay tuned!

- Madness Album
- Roxette Album
- Beavis Hits Volume 1
- Beatles Hits Volume 2
- Queen Greatest Hits Album
- Cliff Richard Album
- Motown & Soul Greats

All above are priced at just £11.99 each

FREE INFO PACK

Labyrinth currently possess an extensive product catalogue which includes midi files. Midi file titles are available individually (excluding Roland titles) and we do not set a minimum order. Please call us to receive your package which includes a FREE midi file demo disk and extensive product catalogue.

All major credit cards accepted. Sameday Despatch



Labyrinth Midi Music, Labyrinth House, 11 Albert Place, Lower Darwen, Blackburn, Lancs. BB3 0QE

Telephone: 01254 678915 Fax: 01254 678917

Compuserve: 100305, 1751. E-mail: 100305, 1751 @ compuserve.com

LICENCED BY M.C.P.S. and E.M.I.



1 U Rack systems

The following are available in a convenient 1 U rack module
Rack includes power supply, cooling fan, SCSI cable & terminator, and 1 piece of media (where applicable)

| | | |
|---------|--|------|
| R2000 | 135Mb Syquest EZ Drive | CALL |
| R2000 | 270Mb Syquest Drive | CALL |
| R2000 | 1Gb 10Mega Jaz Drive | CALL |
| RW2000 | 230Mb Optical Drive | CALL |
| MDR2000 | 270Mb Syquest + 230Mb Optical | CALL |
| MDR2000 | 1 Gb Jaz Drive + 230Mb Magneto Optical | CALL |
| MD2000 | 270Mb Syquest + 540Mb Fixed Drive | CALL |
| MD2000 | 270Mb Syquest + 1Gb Fixed Drive | CALL |
| MD2000 | 270Mb Syquest + 2Gb Fixed Drive | CALL |
| MD2000 | 230Mb Optical + 540Mb Fixed drive | CALL |
| MD2000 | 230Mb Optical + 1 Gb Fixed Drive | CALL |
| MD2000 | 230Mb Optical + 2Gb Fixed Drive | CALL |
| HD2000 | 540Mb Fixed Drive | CALL |
| HD2000 | Twin 540Mb Drives | CALL |
| HD2000 | 1Gb Fixed Drive | CALL |
| HD2000 | Twin 1Gb Fixed Drives | CALL |
| HD2000 | 2Gb Fixed drive | CALL |
| HD2000 | Twin 2Gb Fixed Drives | CALL |

2 U Rack systems

| | | |
|--------|-----------------------------------|------|
| R4000 | 88Mb Syquest Removable Drive | CALL |
| R4000 | 200Mb Syquest Removable Drive | CALL |
| CD4000 | Quad Speed CD Rom Drive | CALL |
| CD4000 | Six Speed CD Rom Drive | CALL |
| RW4000 | 230Mb Optical Cartridge Drive | CALL |
| RW4000 | Panasonic Optical/CD Rom Combined | CALL |
| RW4000 | 1.3Gb 5.25" Optical Drive | CALL |
| RW4000 | 2Gb Tape Backup | CALL |
| RW4000 | 2Gb to 8Gb Tape Backup | CALL |
| RW4000 | 4Gb to 16Gb Tape Backup | CALL |
| RW4000 | Exabyte 7Gb Native DAT | CALL |
| MD4000 | 88Mb Syquest & Quad Speed CD Rom | CALL |
| MD4000 | 200Mb Syquest & Quad Speed CD Rom | CALL |
| MD4000 | 270Mb Syquest & Quad Speed CD Rom | CALL |
| MD4000 | 88Mb Syquest & 230Mb Optical | CALL |
| MD4000 | 200Mb Syquest & 230Mb Optical | CALL |
| MD4000 | 230Mb Optical & Quad Speed CD Rom | CALL |
| MD4000 | 1.3Gb Optical & Quad Speed CD Rom | CALL |
| HD4000 | 2Gb Fixed Drive | CALL |
| HD4000 | 2Gb Fixed Drive AV Ready | CALL |
| HD4000 | 4.2Gb Fixed Drive | CALL |
| HD4000 | 4.2Gb Fixed Drive AV Ready | CALL |

Desktop systems

| | | |
|-------|------------------------------------|------|
| DTR | Desktop 135Mb Syquest EZ Drive | CALL |
| DTR | Desktop 88Mb Syquest Drive | CALL |
| DTR | Desktop 200Mb Syquest Drive | CALL |
| DTR | Desktop 270Mb Syquest Drive | CALL |
| DTR | Desktop 1Gb 10Mega Jaz Drive | CALL |
| DTCD | Desktop Quad Speed CD Rom Drive | CALL |
| DTCD | Desktop Six Speed CD Rom Drive | CALL |
| DTPD | Desk. 650Mb MD4*Speed CD Rom Combo | CALL |
| DTMD | Desktop 230Mb Optical Drive | CALL |
| DTMD | Desktop 1.3Gb 5.25" Optical Drive | CALL |
| DTHD | Desktop 270Mb Hard Drive | CALL |
| DTHD | Desktop 540Mb Hard Drive | CALL |
| DTHD | Desktop 1Gb Hard Drive | CALL |
| DTHD | Desktop 1Gb AV Hard Drive | CALL |
| DTHD | Desktop 2Gb Hard Drive | CALL |
| DTHD | Desktop 2Gb AV Hard Drive | CALL |
| DTHD | Desktop 4.2Gb Hard Drive | CALL |
| DTHD | Desktop 4.2Gb AV Hard Drive | CALL |
| DTHD | Desktop 9Gb Hard Drive | CALL |
| DTHD | Desktop 9Gb AV Hard Drive | CALL |
| DTDAT | Desktop 2Gb Tape Backup | CALL |
| DTDAT | Desktop 2Gb - 8Gb Tape Backup | CALL |
| DTDAT | Desktop 4Gb - 16Gb Tape Backup | CALL |
| DTDAT | Desktop 7Gb Native DAT | CALL |

WANTED!

All Analogue Synthesizers & Drum Machines.

WE CAN PAY CASH

Collection facility available



Phuture Sounds
Tradewinds House . 5 Albert Road . Crowthorne .
Berkshire RG45 7LT. Fax: 01344 762 262

Tel: 01344 780 008

All prices include VAT @ 17.5%. Next Day Delivery Available

Memory Upgrade List

| | | | |
|---|---|--|--|
| If your Apple Mac / PC / Sampler is not listed below, please call | | E-Mu Esi-32, E-64, E-IV 8Mb £200.00 16Mb* £400.00 32Mb £800.00 64Mb* £1,600.00 <i>* only for E-64 and E-IV</i> | Roland DJ-70 2Mb £78.00 |
| Akai S950 0.75Mb £85.00 | Akai S2000/S3000XL/ S3200XL 4Mb £65.00 8Mb £130.00 16Mb £265.00 32Mb £520.00 | Ensoniq ASR-10 8Mb £200.00 16Mb £400.00 | Roland S-750 8Mb £200.00 16Mb £400.00 |
| Akai S1000 8Mb £365.00 | Akai S2800/S3000/S3200 8Mb £385.00 | Kurzweil K2000/K2500 8Mb £200.00 16Mb £400.00 32Mb £800.00 64Mb £1,600.00 | Roland S-760 8Mb £110.00 16Mb £265.00 32Mb £520.00 |
| | | Akai Re-Mix 16 4Mb £65.00 16Mb £265.00 | Roland S-770 2Mb £78.00 4Mb £165.00 8Mb £320.00 |
| | | | Yamaha SY-85 2Mb £78.00 |

Reductions

All SIMM's are Brand New Gold Edged with up to 5 years warranty, and branded
All prices include VAT @ 17.5%
MAC & PC SIMM's are also available - Please Call

Second User / Ex-Demo Analogue & Digital

| Manufac. | Model | Description | Price |
|------------|-----------|--|--------|
| Akai | S900 | 12Bit Sampler, inc. large library | £400 |
| Akai | S950 | Fully expanded, excellent condition | £750 |
| Korg | MS-10 | Analogue Patchbay monosynth | £195 |
| Korg | Propecy | Multi-Oscillator Synthesizer, as brand new | £749 |
| Moog | Mini Moog | Excellent condition, model D | £1,049 |
| Moog | Prodigy | Excellent condition with original manual | £275 |
| Roland | Juno 106 | Analogue Polyphonic synth with MIDI | £485 |
| Roland | Juno 60 | Analogue Polysynth with DCB Port | £275 |
| Roland | Jupiter 6 | Mint condition B1-Timbral Analogue Polysynth | £825 |
| Roland | JX8-P | Analogue/Digital Hybrid synthesizer | £350 |
| Roland | M16-C | Memory cartridge for JX8-P | £30 |
| Roland | M64-C | Memory cartridge for MKS-70, TR-909, TR-707 | £40 |
| Roland | MC-202 | Analogue 2 channel microcomposer | £295 |
| Roland | MKS-50 | Rackmount Alpha Juno | £399 |
| Roland | PG-300 | Programmer for Alpha Junos & MKS-50 | £199 |
| Roland | PG-800 | Programmer for JX8-P, JX-10, MKS-70 | £299 |
| Roland | R-8 | Human Rhythm Composer | £349 |
| Roland | SH-101 | Analogue Monosynth, with Mod Grip | £285 |
| Roland | SVC-330 | Vocoder, in excellent condition | £495 |
| Roland | TB-303 | Classic Acid box, mint condition | CALL |
| Roland | TR-505 | MIDI Rhythm Composer | £95 |
| Roland | TR-606 | Analogue drum machine, mint condition | £150 |
| Roland | TR-727 | Latin MIDI Rhythm Composer | £145 |
| Sequential | Pro-One | Two oscillator monosynth | £395 |

The above items are currently on our database.
Some are in stock at the time of printing, some are on their way to us.
Please call for latest updates and prices.

| | | | |
|--------------|----------|--|------|
| Kenton | Pro Solo | Single channel high spec. MIDI to CV Converter | £118 |
| Kenton | Pro 2 | Dual channel high spec. MIDI to CV Converter | £189 |
| Kerton | Pro 4 | Quad channel high spec. MIDI to CV Converter | Call |
| Philipp Rees | MDS | Midi to Syno 24 converter | £69 |

NEW ANALOGUE EQUIPMENT IN EVERY DAY
- PLEASE CALL FOR LATEST LIST!

FOR SALE

HEAVENLY MUSIC MIDI SOFTWARE

HEAVENLY MUSIC

P.O. Box 3175, CO15 2RP

Tel/Fax +44 (0) 1255 821039

You can also E-mail us at
heavenly@ortiz.demon.co.uk

**DJK Music
MIDI SONG FILES**

Telephone for FREE demo and catalogue -
Licensed by MCPS and EMI

DJK Music, Malgrat, Thorpe Road,
Tendring, Essex CO16 0BW.

Phone (01255) 830185 (Mon-Fri 9-5); 861949
(evenings/weekends);
Mobile 0589 894856, Fax 961190.

- Extensive Catalogue ●
- Medleys ●
- Compilation Disks ●
- Songs Programmed To Order ●
- Bulk Buying Discounts ●

We can also supply songs on
DAT /cassette, Mini disc or CD

CALLING ALL SY85 & XP50/80 OWNERS!

OUR SY85 MEGA-PACKS ARE NOW AVAILABLE
AT THE INCREDIBLE PRICE OF £44.95 EACH.

"Techno/Dance" MEGA-PACK
765 voices + 384 performances.

"Vintage Synths" MEGA-PACK
765 voices + 384 performances.

Buy two and get "Contemporary Keys" voice disk free.

NEW!!! "Ambient & Techno" voice disk £19.95

NEW XP50/80
"Classic Synths"

128 patches + 32 performances £24.95

Cheques/Postal orders payable to:

MEDIASONIC

Dept. 2, 26 Gilsland Avenue,
High Howdon, Tyne & Wear,
NE28 0NQ

Tel: 0191 287 1720



baktrax



The Best Value For Money Midi File Sequencing Company



TOP QUALITY GM/GS MIDI FILES WRITTEN BY
GIGGING MUSICIANS FOR THAT "LIVE" PERFORMANCE.



NOW ON THE INTERNET - CHECK OUT
<http://www.baktrax.com>



CALL 01329 834692 For your free catalogue
BBS Service 01329 835455

Fax: 01329 835444 - Licensed By EMI & MCPS
The Minstrals Ingoldfield Lane Newtown Nr Wickham Hants PO17 6LF



Blank Disks
Keyboard Bags
Keyboard Covers
Mini Mixers
1 Fads Etc

TUNE 1000 MIDI Files

10 songs per disk

Over 75 Albums now in stock

Incl. Lyrics & Vocal Harmony Data

SEND FOR OUR COMPREHENSIVE MIDI FILES
& ACCESSORIES CATALOGUE

20 Hogarth Drive, Hinckley,
Leics. LE10 0JG

Tel: 01455 238156

Fax: 01455 637827

**If you need an Audio Supplier who
does more than just deliver boxes.**

You should be talking to us

LARKING AUDIO
LIMITED

Telephone Andy or Don
on 01234 772244 or Fax 01234 772109

Westec Midi-Market

BEAT
THE HYPE!!!

MIDI Shareware/PD

editors for all makes /
sequencers etc etc

£3.95
per disk

Atari Mu1 Midi utilities

MU4 studio facilities

MU6sysx handlers

PDS2 quality 16trk sequencer

PDS8 backing track creator

and now P.C

loads of software now available

Professional
Backing tracks
- GM midifile -
5 for £19.95
10 for £34.95

SEND FOR OUR
full list and
FREE MIDI GUIDE

4 way Midi
Switcher
Boxes
£12.95

Beware of
expensive
alternatives

Credit Card orders
and HORIZON
bulletin board now
open E.C.S
01621-778778

The STM adaptor for the Atari

is a great MIDI channel for just -

£14.95 works with cubase

creator Realizer iRT etc

Roland LA Essentials for: D5 D10 D20 D110 MT32 CM32 CM64

GM emulator

Convert to GM patterns and drum kits - £14.95

Quality Sounds - 64 per disk - £7.95 per disk

RS-11RS12 professional presets, RS21RS22 drum sounds

RS-11RS12 Analog sounds, RS41RS42 Vintage Keys

RS-11RS12/4000 Sounds

Get Dumps

- save sounds/
settings in your
sequencer -

£12.95

All prices fully inclusive

30 Fish Street Goldhanger Maldon Essex CM9 8AT

Tel: 01621 - 788466

Midi Magic... Where excellence comes as standard!



INTERNATIONAL

20 MYSYDD TCE, SWANSEA SA1 2PZ UK

Tel/Fax: (01792) 642381

FOR FREE CATALOGUE

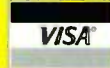
E-MAIL 100733.555@compuserve.com

*Keeping pace with
your requirements!*

We're not sitting on our laurels (too painful at
this time of year!) If you want to take a
Magical Mystery Tour down Abbey Road to
Strawberry Fields avoiding the Taxman, you'll
hear Midi Magic song files Here There &
Everywhere. So if you need Help don't have A
Hard Days Night just ask Dr. Robert or Eleanor
Rigby or simply order our **FREE CATALOGUE
AND DEMO DISK** and even Your Bird Can Sing!

Apart from producing Professional, High Quality
midi song files we also produce:

- Drum Beats 1+2 • Mix & Match • Short Cuts
- The Rhythm Guitarist • A Chord & Scale dictionary
- Bass & Drum patterns • Composer series Vol.1
- Blue Moods, Vol.2 Rock & Roll, Vol.3 Country.
- Classical guitar Tracks • Ragtime Piano
- SR16 GM Converter,
- Patchworks (New sounds for the 'Canvas')



ALL PRODUCTS BY MIDI MAGIC AND BAKTRAX ARE SOLD UNDER LICENSE ONLY FOR USE ONLY BY THE PURCHASER AND NOT FOR RESALE, EXCHANGE OR DUPLICATION IN ANY FORM.

PROFILE

Entertainments

610 Mansfield Road,
Sherwood, Nottingham

(0115) 9245454



The UK's Number 1 Mail Order Company

Midi Files

Profile Single Midi Files are back
The Industry Standard "Still The Best"
Midi Files Compilation

| | |
|-----------------------|-----------------|
| The Shadows | Prince |
| Top Hits 90's | Elton John |
| No 1 Hits of the 90's | Motown Gold |
| Frank Sinatra | Whitney Houston |
| Queen 1 & 2 | Gloria Estefan |

+ Many others

| | |
|-----------------------|------------------------|
| Willie Nelson | Beach Boys |
| James Taylor | Supertramp |
| U2 Hits | Whitney Houston |
| Elton John | Steve Miller |
| Bee Gees | George Michael |
| Lisa Stansfield | Barbara Streisand |
| The Hollies | Abba |
| 50's Hits (3 Vols) | Syx |
| 60's Hits (6 Vols) | Earth Wind & Fire |
| Annie Lennox | Annie Lennox/D Stewart |
| Country Hits (4 Vols) | Elvis Presley |
| Sting | Eric Clapton |
| Police best sellers | |

Plus Many Many More Titles
Ask for Our Free Catalogue

Music Software

Cubase PC/Atari
Cubase Light
Cubasis Audio
Cubase Score
Cubase Audio
Band In Box
Jammer Pro
Cakewalk Express
Cakewalk Pro
Music Station
The Pianist
Jazz Guitar
Turtle Beach
Tahiti / Tropex
Yamaha

Lighting & Lighting

Packages Par 56/64 Cans

MIDI & S/to light RIGS

Call for more information

| | |
|-----------------------|---------|
| Quality 4 way Par Can | |
| Lighting Rigs from | £210.00 |
| 8 Way Par Can | |
| Lighting Rigs from | £399.00 |

MIDI LIGHTING IS OUR SPECIALTY

Every type of MIDI Lighting
Controller is available

*Technical Advice and setup information is just a
phone call away*

Effects Lighting Best UK Prices

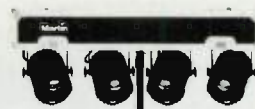
| | |
|------------------------------|------------------|
| Abstract Scatter Spot | NJD Blaxer |
| Abstract Twisters | NJD Blitzer |
| Abstract Wildstar | NJD Datamoon |
| Abstract Hypermoon | NJD Cylene |
| Abstract Rave | The New Ryger |
| Abstract Scenesetters | Lighting is here |
| Abstract Futurescan II & III | |

Martin Lighting(Everything)

MIDIMAN GM/GS
SOUND MODULE
Only £199.00



Amazing Sounds
Amazing Price



- 1/4" line level input
- Front panel XLR/mic. connection
- 4 voice detune for vocal thickening
- Bypass activation (external f/switch)
- Scalic mode for dynamic harmony motion
- Chordal mode for automatic vocal harmonies
- Vocoder mode for triggering harmonies via MIDI notes

Roland Music Shop

MT80s MIDI Player
MT120 MIDI Player Sound Module
MT120s MIDI Player Sound Module
E Series Keyboards
RA 35/95 Real Time Arrangers
NEW! MC303 Rave Machine
Sound Canvas SC55/SC88UL
VS880 Digital Recorder
XP10/50/80 Workstations
DJ70 Workstation
AX1 Remote Keyboard

ROLAND EVERYTHING!!!

The New Digitech MIDI Vocalist Is Here

PRO AUDIO SHOP

Ephos 8:2 Mixers
Ephos 12:2 Mixers
Ephos 16:2 Mixers
Ephos 14:2 Mixers
Ephos 16:2 Mixers
Powered versions available
Amplifiers (all makes)
Lion Forge 115 x 115 watt £199
Lion Forge 200 x 200 watt £239
Lion Forge 410 x 410 watt £369
Lion Forge 1050 x 1050 watt £990

Fender Loudspeakers
Amazing New Range of
Speaker Systems from Fender
From Just £399 a pair

Radio Mic Systems Wireless
Guitar Systems Microphones
by Beyer, Shure, AKG
Call for more info

FREE CATALOGUE & PRICE LIST

Ask for our Free Catalogue.

In store finance, mail order finance - No Problem



FOR SALE

Stage 1
music

Telephone or write for a **FREE** Catalogue

MIDI SONG FILES

Tel: **01843 836150**
6 Linden Close, Westgate, Kent CT8 8EH
Fax: **01843 836151**

SOUND SOLUTIONS

SPECIALISING IN SAMPLE CD'S,
SOFTWARE & SOUND CARDS

| Sample CD's | Sound Cards |
|----------------------------|------------------------|
| AWI Sound Four 1/2 £29.00 | Yamaha DB50 ag £129.99 |
| Solo AWI Collection £29.95 | Tropex Plus £249 |
| Great 40 Essentials £19.95 | Yamaha SW10 NG £149.99 |
| Cable 3.0 (WAY/4FF) £12.95 | TBS2000 £139 |

Software

| | |
|--------------------------|--|
| Cakewalk Pro £199 | We handle all 1KS CD's most software & soundcards. |
| Cakewalk Pro Audio £299 | *Free Cakewalk Express |
| Cubase 3.0 (PC/MAC) £299 | We welcome Access, Visa & Delta |

Above is a small selection from our range, please telephone for latest prices.

CONTACT ADRIAN ON 01403 732606
EMAIL: SOUND.SOLUTIONS@DIAL.PIPEX.COM
WEB: HTTP://SPACE.DIAL.PIPEX.COM/SOUND/SOLUTIONS/
SAMPLES FROM TIME & SPACE ARE AVAILABLE FOR DOWNLOAD.

TRACK EXPANSION

For multi-track recorders.
Never run out of tracks!

28 pure audio tracks from a 4 track!
300 tracks from an 8 track!
Without track bouncing!
All tracks can be kept!
Fully descriptive booklet and sync tape.
No other equipment needed.

£49

GUARANTEED TO WORK OR YOUR MONEY BACK.

To order, or for more details, write or phone:

Spectrum Sound Studios (Dept S3 2)
31 Waltham Road, Westcliff, Essex SS0 9DR
01702 354045

MIG Music 0181 641 6808 55 Angel Hill, Sutton, Surrey SM1 3EH

SYNTH VOICES on ST, PC, AMIGA OR MAC DISK 320D5/10/110/20, 128D50, 960DX7, 560ESQ1, 575FB01, 320K1, 64K4, 200 Matrix 1000/6, 240MT32, 128 Proteus 1, 640TX81Z/21/100, 128VZ1.

VOICES (ST / PC ONLY) 256DW8000, 128JD990, 64JV80/880/90/1000/1080, 128 Juno 1/2, 240K5/K3, 200 Matrix 12, 192CZ, 128MKS50, 100MPS, 400M1, 20001W, 300 03rw/X3, 300 05rw/X5, 200SY22/SY55, 240 VFX, 100 Wavestation, 100TG500.

ST EDITORS CZ, D10/20/110, DX7/21/100, DX7II, DW8000, FB01, Juno 1/2, K1, K4, M1, TX81Z, U110, VZ1, XE8, YS200/100.

PC EDITORS CZ, D110, DX7, DX7II, FZ1, Matrix 6, MT32, Juno 1/2, Sound Canvas, TG55.

Prices **£9.75 each 3 for £26 4 for £30 P&P £1 SENT 1ST CLASS, SAME DAY**

SAMPLE LIBRARIES EPS/EPS16+ / ASR10 / TS10 / K2000 / MIRAGE / TX16W

Several hundred sample disks per library at £2.80 per disk or less. Please call / write for free info

MIDI NATION

MIDI Files for giging musicians

MIDI SONG FILES 100%

PRODUCED "IN-HOUSE" QUALITY - EVERY PURCHASE!!

GM/GS COMPATIBLE SAME DAY DESPATCH

NO MIDDLE MAN, NO FIDDLE MAN - EVERYONE'S A "HAPPY MAN"

MIDI NATION, 29 KESTREL ROAD, WALTHAM ABBEY, ESSEX. EN9 3NB
TEL: 01992 651797

DO YOU HAVE A PC?

YOU

will get the best advice and prices from us

We stock all the Turtle Beach products plus Saw, Quad, Cakewalk and much more.

New Procyon Pro & Samplitude sequencer + 8 track of digital audio for under £350!!!!!!
1000 samples FREE with every soundcard purchased.

Call: John at Music Maker

Tel: 01309 676008
Evenings and weekend calls welcome

PRO-MIDI B.F.P.
CAXTON HOUSE, CAXTON AVE, BLACKPOOL. FY2 9AP
TEL: 01253 345386 DAY. (01253) 591169 NIGHT FAX: 01253 406899

Licensed by MCPS & EMI SPECIAL OFFERS

| Country Hits (30 Songs Only £40.00) | Singalong (12 Songs Only £15) | Dance Class 12 Songs £15.00 | Special Occasions £15.00 |
|--|---|--|--|
| King Of The Road, Rugby, The Gambler, Big Bad Leroy Brown, American Trilogy, | 12 Pub Singalongs 12 Classic Male Ballads 12 Classic Female Ballads 12 Dinner Dance Songs 15 War Songs £25.00 | Sight For Sore Eyes Its My Life All That She Wants I Saw The Sign Moving On We Are Family Rhythm is a Dancer Late July Night Irene Bell Go Living On My Own No Limit | Happy Birthday Jolly Good Fellow The Wedding Anniversary Waltz We Are Sailing God Save The Queen 21 Today Old Lang Syne Old Wedding Ring We'll Meet Again We Are The Champions Star Spangled Banner |

UPDATE LIST

| | |
|--------------------------|------------------|
| A Girl Like You | Kiss From A Rose |
| All I Need Is A Miracle | Missing |
| I Am Blessed | Wonderwall |
| Don't Look Back In Anger | Lifted |
| Falling Into You | Roll With It |
| Jesus To A Child | Supersonic |

Plus Many More

15 IRISH SONGS £25.00
15 OF THE BEST SHADOWS SONGS INCLUDING APACHE, FBI, KON MAN OF MYSTERY, ARGENTINA, WONDERFUL LAND, AND MANY MORE £25.00

Special Offer for June & July ONLY
Any 20 songs for only £50 P&P

Any 20 songs for only £50 P&P

MIDI Hardware
By Viscount

RD-70 Data Filer £300

RD-800 Active Data Filer £440

MF-01 Song Worker £625



MUSIC CONTROL

01270-883779

<http://www.demon.co.uk/control>



Music Control Stocks new stuff from the following companies:

Akai, AKG, Alesis, Control Synthesis, Denon, Digidesign, Drawmer, Emagic, Emu, Ensoniq, Postex, General Music, Goldstar, Kenton, Korg, Kurzweil, LA audio, Lexicon, Mackie, Oberheim, Opcode, Roland, Spirit, Steinberg, Studiomaster, Tannoy, Tascam and Yamaha.

If you're after secondhand stuff then try Music Control for:

Akai, ARP, Casio, Cheetah, Elka, Emu, Evolution, Fairlight, Hammond, Kawai, Moog, Oberheim, Octave, Oscar, Rhodes, Roland Sequential, Wurliizer and Yamaha.

Here is a list of stuff stored on the database at the moment

- over five of each of these!

Akai

ASQ10, AX73, MPC60, S01, S1000, S1000HD, S1000KB, S1000PB, S1100, S2800, S3000, S612, S700, S900, S950, VX90, X7000, XE8.

Alesis

1622, 3630, Adat, D4, Datadisk, HR16, Microverb II, Microverb III, Midiverb II, Midiverb III, MMTB, Quadraverb, Quadraverb+, SR16

ARP

Axxe, Odyssey, Omni II, Sequencer

Atari

1040 + M

Boss

DR660

Casio

CZ101, DA7, FZ1, FZ10M, RZ1, VZ1, VZ10M

Chase

BIT01, BIT99

Cheetah

MS6, SX16

Crumar

Stratus

Drawmer

DL221, DS201, LX20

EDP

Wasp

Emu Systems

Emax II, KYBD, Emulator II, Morpheus, Proteus I, Proteus 2, Vintage Keys

Ensoniq

EPS, EPS16+, ESQ1, SQ60

Evolution

EVS1

Fender

Rhodes

Stage 73

Fostex

280, 812, B16, E16, R8

Gem

S2

Hammond

C3, X82

Kawai

K1, K1 II, K1 M, K1 R, K4, K4 R, K5

Korg

01/W, 01/WFD, 01R/W, 03 R/W, 05R/W, 707, BX3, Delta, DS8, DSS1, DW6000, DW8000, EX800, EX8000, KMS30, M1, M1 R, M1 REX, M3 R, Monopoly, MS10, MS20, P3, Poly 6, Poly 61, Poly 800, SG1D, T3, Wavestation, WSIEX, WSIR, WSSR, X3

Kurzweil

K2000

Lexicon

LXPI, LXP5

Moog

Mini Moog, Opus III, Poly Moog, Prodigy, Rogue

Oberheim

4 VOICE, M1000, Matrix 6, Matrix 6R

Octave

Cat

Revox

B77

Roland

A30, A80, AX1, CR78, CSQ600, D10, D110, D20, D5, D50, D550, D70, DEP5, JD800, JD990, Jupiter series, Juno series, JV1080, JV30, JV80, JV880, JX1, JX10, JX3P, JX8P, MC202, MC50, MC500, MC500 II, MKS10, MKS100, MKS20, MKS30, MKS50, MKS7, MKS70, MKS80, MSQ700, MT32, P330, PG1000, PG200, R5, R70, R8, R8M, RE201, RE501, RS09, S10, S330, S50, S760, SH09, SH1, SH1000, SH101, SH2000, SH3A, SRV330, TB303, TR505, TR606, TR626, TR707, TR727, TR808, TR909, U110, U20, U220, W30

Seck

18.8.2

Sequential

Drumtrax, Prol, Prophet 5, Prophet 600, Prophet VS, Sixtrak

Sony

DTC1000ES, DTC750

Tascam

488, 644, MM1

Vox

Continental

Waldorf

Microwave

Yamaha

CS15, CS5, CS60, DMP11, DMP7, DX100, DX11, DX21, DX27, DX5, DX7, DX7 II, DX7S, KX5, KX88, NS10M, QX5, QY20, R1000, RX17, RX21, RX5, RX7, RY30, SPX 90, SPX 900, SY22, SY35, SY55, SY77, SY85, SY99, TG100, TG33, TG55, TG77, TX7, TX802, TX81Z, V50

Music Control will buy your secondhand equipment - why not give us a call on 01270-883779 and see if we can help you!

Recent Music Control Customers include: Björk, Pulp, Phil Collins, Tricky, Darkman, Incognito, The Lisa Marie Experience, Roachford, CJ Bolland.



You can email Music Control using:

emma@music-control.co.uk
chris@music-control.co.uk
daz@music-control.co.uk
john@music-control.co.uk

Music Control HQ

Chapel Mews, Crewe Road, Alsager, Staffs. ST7 2HA

Tel: 01270-883779 Fax: 01270-883847

Music Control South

43-44 Hoxton Square, London, N1 6PB.

Tel: 0171-729-4100 Fax: 0171-729-7400



01270-883779

FOR SALE

**ASTONISHING
MEMORY PRICES!**

30 PINS SIMMS 256k £3 1mb £13 4mb £59 16mb £236
EMU 32/64/IV Ensoniq ASR10/R/TS10/TS12 Kurzweil K2/2500/R
Roland S750/770/DJ70/J530 Yamaha SY85 Mac PC AtariSTE

72 PIN SIMMS 4mb £32 8mb £63 16mb £125 32mb £249
Rol S760/DJ70mk2 Akai CD3000i+ S2000 53000XL 3200XL Mac PC

CALL JETRAM NOW 01753 734644 / 0956 837429 anytime
ALL SIMMS BRANDED, NEW, 1 YEAR WARRANTY. E&EO 1469

Cash Paid

for all types of
Synths,
Samplers,
Outboard,
Mixers,
4/8 Track etc.

Contact Simon or Chris
0171-240-0593

1213

BOSS DR660 drum machine hardly used. boxed, £225
Telephone 01489 784288

AKAI S950 sampler, 1 expansion card, boxed, manual, mint condition £700. Telephone 01793 612606

ROLAND JUPITOR 4 £350, Korg MS10 £150.
Telephone Runcorn 01928 712864 after 6pm

SOUNDCRAFT SERIES 760 MkIII 16 track 1" tape machine with B.E.L. n/r loom and remote. Soundcraft Spirit Studio 24:8:2 in line console £2850 o.n.o. Telephone 01293 546322

PRO 1 SYNTH for sale with original manual as new, best offer accepted. Telephone 0115 929 1601

ROLAND D50 + 2 sound cards, 8 banks on disc and flight case £350 o.n.o. or will part exchange for DD50. Telephone 0973 776675 or David Lennox 01332 832389

KORG PROPHECY, new, boxed with manuals £750 o.n.o. Telephone 0802 775547

FOUR TIER KEYBOARD STAND £50, Greengate D53 MIDI disc library + spare computer £150 o.n.o. Statik spring reverb £50. Sessionmaster pre-amp £220. Azden 10 band stereo graphics £100. GPO Patchbay 3 x 24 hole £50. Telephone 01432 880442

KORG 01W PRO 21/2 months old, manufacturers warranty, home use only, demo disc, manuals, some spare discs, immaculate condition, keyboard stand included £1500 o.n.o. Telephone Peter 0117 944 1156

LEXICON LXP1 £220, EMU Performance £150, Rhodes Stage 73 £200, Roland M240 £350, Siel DK80 £120, Korg Mini 700 battered £40. Leave message on 01426 209138

ROLAND SVC 350 Rackmount Vocoder excellent condition, rich analogue sound £295 o.n.o. Spirit Folio 12:2 CD quality desk, boxed £250 o.n.o. Telephone 01772 322123

FOSTEX B12 MIXER, 12:8:2, superb condition, boxed, hardly used £600 o.n.o. Telephone Basingstoke 01256 410178

ROLAND JV880 + Vintage Synth expansion board and Atari Editor £450. Telephone 01843 586913 (East Kent)

KORG 01W FD with MIDI file update and flight cases £950 o.n.o. Telephone 0973 776675 or David Lennox 01332 832389

SITUATIONS VACANT

**Talented, Female, Singer,
Songwriter**

Would like to team up with an experienced Producer/Engineer with studio (at least 24 track) To obtain a deal.

Contact Larkland on
0181-926-4358 or
0181-926-9851

1443

Studio Sale

Digitech Vocalist 2, Studiomaster P7 Mixing Desk 32:8:16:2, Alesis ADAT XT, Alesis 3630 Gate/Comp., Yamaha 3 Head Cassette Deck, Emu Morpheus, Alesis SR16, Emu Performance 1+, Atari Mega STE (4/40Mb Hard Drive) with Monitor and Notator, Denon DRM800 3 Head Cassette Deck

Each item can be sold individually

Please call with offers

Call evenings 01454 329500

1432

**TOP PRICES
PAID FOR**

Synths, Computers hard and software
Recording equipment
Anything considered - SELL QUICKLY
Call FREEPHONE 0800 132 193
Collection arranged nationwide



branches at :-

LONDON - OXFORD - BRISTOL
EXETER - SLOUGH

941

KORG WAVESTATION X perfect condition with card £800 o.n.o. Yamaha KA 20 2 amp speakers £800 o.n.o. perfect condition. Ring after 5pm 01772 623483

FOSTEX A8, mint, boxed, spare head £500, Studiomaster 16:2, inserts 3 auxiliaries £350, Tascam 34 £225 Telephone 01522 530605

YAMAHA MT3X £300, Roland D110 synthesiser module £200, Desctech DT 602X £150 Telephone 0973 758680

TASCAM 488 MkII Porta Studio boxed + Philip Rees TS1 £750 Telephone 0181 248 3424 ask for Graham

TASCAM 424 4 channel mixer as new £325. Phone 01635 248412 Newbury - London for viewing

ALLEN & HEATH GS324 56 channels on mixdown, excellent condition £1750. Telephone Gavin 01364 661420

MACKIE CR 1604 mixer rackmountable 16 channels £595 Telephone 01553 828063

FOSTEX R8 £700 o.n.o. Atari 1040 STE + Monitor + Cubase + Unitor 2 £350 o.n.o. Telephone Pelham 01703 552993

MULTIMEDIA ACCESSORIES CATALOGUE. Prosonix. Phone now for free copy. Telephone 01323 848808

ENSONIQ ASR10, 4Mb, library, boxed, manuals £1450, Yamaha DX21 £150, Siel SK80 £165. Telephone Rob 0973 850334

Telephone Rob 0973 850334

MUSIC STORE

**TUNE INN
WANTED**

ANALOGUE & DIGITAL SYNTHS
SAMPLERS - SEQUENCERS
DRUM MACHINES - FX
HI-TECH - COMPUTERS
PA & RECORDING EQUIPMENT

0181 - 698 4446

COMBOS - GUITAR FX - DRUMS
NEW & VINTAGE GUITARS
SAXES - CLARINETS - FLUTES

BUY! SELL! P/EX!

124-126 ST MILDREDS RD LEE LONDON SE12 8RG
OPEN: MON - SAT 10.00 - 6.30 452

ROLAND XP50, keyboard / workstation, original box and manuals, excellent condition £900 o.n.o., can deliver. Telephone Alan 01332 720291 (Derby)

STUDIO SALE Digitech Vocalists 2, Studiomaster P7 Mixing Desk 32:8:16:2, Alesis ADAT XT, Alesis 3630 Gate / Comp, Yamaha 3 Head Cassette Deck, Emu Morpheus, Alesis SR16, Emu Performance 1+, Atari Mega STE (4/40Mb hard drive) with Monitor and Notator, Denon DRM800 3 Head Cassette Deck.

Each item can be sold individually. Please call with offers. Call evening 01454 329500

EMU ES1 32 library £770, Korg Wavestation £610, Roland JD800 £985. Telephone 01261 832898

YAMAHA DX7IID plus 'E' board, 8-way multitimbral, mega ROM, breath controller, v.g.c. £469 o.n.o. Telephone Martin 0117 972 4626

WANTED

DRAWMER 1960 Compressor. Telephone 01202 526453

SITUATIONS VACANT

Sales Engineer

With the launch of the GREEN range, Focusrite Audio Engineering is looking to appoint a Sales Engineer to support its rapidly expanding sales.

Ideally in your mid 20's you will be an outgoing personality, a keen musician or sound engineer and computer literate. Above all you will enjoy dealing with people.

A technical background and some previous sales experience would be useful but are not essential.

Based in the UK with some international travel, you will be responsible for demonstrating and operational training for all of Focusrite's RED, BLUE and GREEN ranges of premium signal processing.

Please send your CV together with a covering letter to:

Tony Henderson, Focusrite Audio Engineering, Unit 2, Bourne End Business Centre, Cores End Road, Bourne End, Bucks. SL8 5AS Great Britain

Focusrite
audio engineering

1440

STAFF VACANCIES AT TURNKEY

Sales Persons / Demonstrators

We require the successful applicant to demonstrate a good working knowledge of the current market-place and a full understanding of equipment owned or used. We are particularly looking for knowledge of the MIDI keyboard market

PC Music Specialist

Sales and demonstration of PC compatible MIDI and digital audio products, phone and shop floor, tech support and staff training. Min 6 months experience with Windows. Good familiarity with at least 1 Windows sequencer.

Computer Notation Specialist

We require full-time demonstrator with Associated Board Grade 5 or similar and a full understanding of the scoring needs of classical musicians. Sales experience not essential, but you must have good interpersonal skills

Send your application in writing to 114 Charring Cross Road, London WC2H 0DT, by fax to 0171 379 0093, or e-mail to jobs@turnkey.demon.co.uk. Include phone no & 2 references

As part of Arbitor Group plc, and as the UK's largest outlet for MIDI and multi-track, we offer first class training, unrivalled salary, good prospects and real job security. We are an equal opportunities employer.

1205

FOR SALE

Virtual World Technology

A small selection of our new & used stock, please call us if you don't see what you need

| | |
|----------------------------------|-------|
| Alesis ADAT (Black) | £1499 |
| Alesis BRC | £899 |
| Apple MAC 7100 8/500 | £1499 |
| Akai S1000 | £1199 |
| Akai S3200 | £2699 |
| Akai S950 | £699 |
| Behringer Eurodesk | £1899 |
| Drawmer DL221 | £250 |
| Emu Vintage keys | £495 |
| Fostex E16 | £1485 |
| Fostex D80 | CALL |
| Korg Wavestation | £600 |
| Korg Prophecy | £699 |
| Kurzweil K2000 rack | £1399 |
| Lexicon LARC 480L | £599 |
| Roland DM80 direct to disk | £899 |
| Roland S760 sampler | £1399 |
| Soundcraft Topaz 24 | £1895 |
| Soundcraft Spirit 24 | £1699 |
| Tascam DA30 DAT | £899 |
| Yamaha ProMIX01 | £1449 |

* PART EXCHANGE

* EQUIPMENT PURCHASED FOR CASH

TEL: 0181 944 5685

FLIGHT CASES

KH CASES

PROTECT YOUR INVESTMENT!

KH Cases manufacture a full range of cases for guitars, amplifiers, lighting, computers and industrial equipment, custom built to your specification.

The Old Plumbers Shop, Medway Depot,
St James Road, Tunbridge Wells, Kent TN1 2HD

Tel: 01892 527200
Fax: 01892 527201

FLIGHT CASES 19" RACK CABINETS

Standard and custom design for the musician and studio. Large range of accessories also available.

For further information and illustrated brochure, contact:

GROVESTREAM ENGINEERING SERVICES

29 Silverdale Road, Tadley, Hants RG26 6JL

PHONE / FAX: 01734 713309

Tel: 01633 873118 Fax: 01633 873051

RECORDING STUDIOS

RMS STUDIOS

Studio 2—A great MIDI Studio. 10meg S3000 with 340meg hard drive, M1, 4 Meg Atari, Lexicon PCM80, REV 5, Quadverb, 40 input Saber MIDI desk, E16, Tascam DAT, Tannoy and NS10 monitors, XR300, Creator, Cubase, Aphex, DS201 gates, ADR Vocal Stresser and superb mic.

All this in an unusual split-level control room and overdub room for a pretty £7.00 p/h, or £12.00 (+VAT) with engineer/programmer! New SADI B-track hard disk recorder for brilliant remixes and edits!

Studio 1—Ideal for live music—2 live rooms, sumptuous drum sound, Studer 2" 16-track, extraordinary outboard, and a lovely grand piano all for a mere £15.00 p/h (+VAT).

There's daylight in every room and real coffee, tea and meat-free biscuits in the kitchen. Low-cost CD-Rs and tape copying too.

Please phone for a full info pack...

0181 653 4965

RECORDING STUDIOS FOR HIRE
24-TRACK STUDIO - 2", 16-TRACK STUDIO
BOTH STUDIOS AVAILABLE WITH ADAT & ENGINEERS
call now for competitive rates
ONE-OFF C.D.'s AVAILABLE. DUPLICATED
FROM VINYL, D.A.T. OR CASSETTE
TEL: 0181 665-9544 / 0181 771-7341 FAX: 0181 771-1911

CUSTOM MADE CASES HIGHEST QUALITY AT LOWEST PRICES

Ring or Fax us First

R & J Flytes

Tel/Fax: 01933 651706

LOOK HEAR!

19" Rack & Flight Cases

- to tour the world
- lightweight expandable EMS, for home and studio.

Standard sizes, off-the-shelf.

- * 19" Microphone & Storage Draws
- * 19" Keyboard & Lap Top Trays
- * 19" Conversion Mounts
- * Tour Briefcases

Call: CP Cases

Tel: 0181-568 1881 Fax: 0181-568 1141

Tel: 0161-873 8181 Fax: 0161-876 6599

RECORDING STUDIOS

Wax Work Studios

MASTERING • DIGITAL EDITING • REMIXING • PROGRAMMING

Mac System 18/HR HD Recording Time, Cubase Rutilo, Logic Audio Sound Designer, DINR, Time Bandit, CD-R, SampleCell 64 Channel Fully Automated Mixing, S3288, K2888, S768 U118, Morphus, Basstation, Juno 186, S985 Outboards By: Eventide, Zoom, Sony, Roland, DDC, BBE, Yamaha

If You Want A Fully Equipped Digital Studio Then Call Us.

Prices From £25/PH Including Engineer

Tel: 0181 809 6341

Dance Music Production
32-track Pro Tools, 72 Input TAC Bullet. 2 Akai S1100 with 52 Mb RAM. Oberheim Matrix-12, Obie Raek, TB-303, SH-09, MC-202, Juno 106, JD-800, Wavestation, DW8000, D-50, H3000, PCM70, SPX900. Mastering, Remixing, Digital Editing, One-off CD's. Superb vocal sound. Creative and friendly vibe. Experienced and talented programmers. Clients include KLF, Paul Oakenfold, J-Pac, Ministry Of Sound, Virgin, EMI, East West. Rates from £240 per day including engineer/programmer.
0171-924 0211

DIGITAL EDITING & POST PRODUCTION

Compilation
Remixing
Noise reduction
Mastering to Dat / CDR



Experienced engineers using Pro Tools III
• Sound Designer II • DINR • Session 8 •
• Soundscape • Gallery Software •

FIRST CLASS PROFESSIONAL SERVICES....
WHY PAY LONDON RATES? PRICES FROM £25



TEL: 01425 470007

The M Corporation, The Market Place
Ringwood Hants BH24 1AP

911

Recording Studios

Fully digital recording studios
from **£10 an hour**
(includes engineer and VAT)

- Mackie 32:8:2 (32 channel desk)
- Mackie CR1604 (16 channel desk)
- Soundscape hard disk recording
- Digidesign Audiomediam III (Session 8 Software)
- Tascam DA30 MKII DAT Recorder

Korg M1, Akai S1100 (8Mb) and (16Mb), JV1080 X 2 Vintage Keys, Quasar, Roland U220, Novation Basstation, Basstation Rack, Novation Drumstation, Moog, Pro-One, Juno 106.

Effects: Boss SX700, Boss SE-70, Lexicon PCM80, Yamaha SPX1000, Quadverb Gates, Compressors, Limiters, Expanders SPL Vitaliser for surround sound.

Facilities: Vocal Booth, Lounge, Cable TV, Internet, games machine, patio, (overnight stay facilities with writing suite optional) and complementary coffee or tea.

In-house engineers, programmers and producers available

Two recording suites to choose from!

For a booking or brochure please call

Tel: 0171-916 9222

Fax: 0171-916 9298

Swiss Cottage, NW3

DUPLICATION

FULL COLOUR CASSETTE INLAYS

- Low prices
- Specialists in small orders
- No minimum order
- Full design service
- Labels
- CD Inserts

**FREE SAMPLE & DETAILS FROM
MAXIMUM IMPACT**

LANE END, CARLISLE ROAD, TILFORD,
FARNHAM, SURREY, GU10 2EF

TELEPHONE: 01252 792407

8AM-5PM MONDAY-FRIDAY

One off CD's up to 74 mins £20.00 + VAT

Compact Disc Manufacture

500 CD Singles complete only £690.00 + VAT
500 CD Albums complete only £820.00 + VAT
1000 CD Singles complete only £995.00 + VAT
1000 CD Albums complete only £1190.00 + VAT

Digital/Post Mastering
Sadie - Focusrite - GML - Neve
Lexicon - TC Electronics - MD2
20 Bit A to D - 32 bit DSP.

Artwork Design & Layout
Drum Scanning - Typesetting
Fine art - Imagesetting
to Film & Bromide.

Tel **C.R.S.** 01424 436426

LICENSING

Looking for a record deal ?

Blonde Bombshell Records Ltd. currently licence music worldwide to countries such as South Africa, Brazil & Poland, as well as distribution through TRC/BMG in the UK. We are constantly searching for new artists in order to extend our own UK catalogue and increase both our UK and foreign licencing.

Through our chosen CD manufacturer (Voyager) we categorise and assemble artists on compilations which we send to other record companies with the aim to negotiate a deal for you.

We work on commission only so there is no charge from Blonde Bombshell Records Ltd. There is however a CD manufacturing contribution fee of £90 (plus VAT & delivery) to be paid to Voyager, for which you will receive 14 copies of your compilation.

If you are interested please give Voyager a ring on **01382 205 100.**

Blonde Bombshell Records in association with **Voyager Media**

High Quality Real Time Cassette Duplication

- Custom Wound Cassettes •
- Printed Labels •
- DAT to DAT Copies •
- Competitive Rates •

Contact Sounds Around
Tel/Fax 0116 270 2442

PUT YOUR MUSIC ON CD!

One-off CD's
up to 74 minutes **£20**

- ▶ From any format
- ▶ Next day service
- ▶ Free colour insert
- ▶ Specialist in small orders



Call today
0181 840 6536

DUPLICATION

COPYTRAX MULTI MEDIA

ONE-OFF CD's
£16.99 +VAT
(UP TO 74 MINS)

Contact Sales Department on
(01202) 661525
SAME DAY TURNAROUND

MIRROR IMAGE

AUDIO CASSETTE DUPLICATION

50-50,000 COPIES

REAL TIME // HIGH SPEED

ON BODY PRINTING

PRINTED LABELS

BLANK CASSETTES//

COMPACT DISCS

TEL/FAX: 0161 228 1112

HYPERSONIC PRODUCTIONS

CD MANUFACTURING SERVICE

"A cut above the rest"

- Short run CD packages
- Minimum order 300 units
- Digital editing
- In-house graphic design
- Quality products
- Exceptional prices
- Rapid turnaround
- 5 years experience
- Full colour printing
- Personal service

Look no further, call...

Matt Smith (01629) 636572 9am-7pm.

Or write to: **Hypersonic, Robins Croft, Main Street, Stanton-in-Peak, Nr. Maccob, Derbyshire DE4 2LX.**

Telephone: 0181 521 2424 • 0181 503 6360 Facsimile: 0181 521 4343
<http://www.knowledge.co.uk/xxx/hiltongrove/> Email: hgrove.demon.co.uk

- Compact Discs
- Pro-Mastering
- Digibin Cassettes
- Reprographics
- Print

HILTONGROVE
where sound advice counts

- 32 Bit Technology •
- ISDN Lines •
- MD2 •
- 3 Band DSP •
- One-off CD's •

Alpha Business Centre, 60 South Grove, Walthamstow, London E17 7NX

4 mins walk from Walthamstow Central (Victoria - Br), 12 mins M25, 8am - 8pm 7 days. (Tel)

1 DESIGN
ON YOUR COMPUTER

2 PRINT
ON ANY PRINTER

3 APPLY
PERFECTLY EVERY TIME!

LABELLING CD'S IN 3 EASY MOVES

KIT INCLUDES:

LABEL DESIGN TEMPLATE (PC & MAC)

THE NEATO LABELLER

COMPLETE INSTRUCTION GUIDE

ORDER NOW AND GET 99 FREE LABELS

NEATO  TM

CD LABELLER KIT

THE £55 SOLUTION
+VAT & P&P

SALES HOTLINE 0990 561571
MICROPATENT EALING HOUSE
33 HANGER LANE LONDON W5 3HJ
FAX: (0181) 932 0480
SEE US AT- <http://www.neato.com>

4 ONE-OFF CD'S FREE

We will send you 4 one-off CD's absolutely free worth £80.00 when you order a minimum of 500 cassettes.

Call Copytrax Multi Media
01202 661525

• CASSETTES & CD MANUFACTURE • ONE-OFF CD'S • 16 TRACK DIGITAL STUDIO •

DIADEM DESIGN
ARTWORK & GRAPHIC DESIGN • TYPESETTING

Complete CD artwork package - four page booklet, back inlay plus disc label with full design, typeset and colour separation to final film - ring for details includes three full colour scans plus colour proof!

0161 678 1569

THE COMPACT DISC COPYING CO. 

We specialise in short run compact discs at unbelievable prices ...

CD's Are Now Affordable!
Mail Order Welcome

One Off's + Printing

Full Colour Inlay Cards Available

5 CD's + On Disc Printing £60 + vat
10 CD's + On Disc Printing £90 + vat
20 CD's + On Disc Printing £155 + vat
50 CD's + On Disc Printing £290 + vat

0171 - 561 0136

RMS cassette copying

DAT, 4", F1, Free colour labels, SADIe editing, precisely PQ'd CD-Rs.

0181 653 4965
(South London)

You've recorded your CD Now make it look professional!

PressIT™ CD Labelling System

The quick, effective, safe way to print and apply circular labels to CD ROMs and Audio CDs using laser and inkjet printers

PressIT™ comes complete with:
100 white, 118mm circular labels; layout templates for Mac and PC; and The PressIT™ label applicator
Introductory price: **£79.95** + £5 shipping and handling + VAT
Additional labels: 200 white £30; 200 coloured £32. clear plastic labels available

Credit card orders freephone:
0500 026103
enquiries tel: +44 (0) 171 794 5546
fax: +44 (0) 171 209 0645

Cheques or Postal Orders to:
Rocky Mountain Traders, Ltd.
PO Box 9446, London NW3 2WG
PressIT™ is made in Europe.
Patent pending.

VOYAGER TM

Manufacturing & Mastering of Compact Discs & Cassettes

500 CD Singles - £680

Price includes: Full Mastering
Glass Mastering - Cases
2 Colour On CD Printing & Colour J Cards

Post production Mastering

For a free information pack please call
Tel:01382 - 205100 • Fax 01382 202229

Make it with us . . .

Sound Recording TECHNOLOGY

MANUFACTURING

- COMPACT DISCS
- DIGITALLY DUPLICATED CASSETTES
- PRINT AND REPROGRAPHICS

HIGH END MASTERING

- FIVE STUDIOS
- LATEST 32 BIT TECHNOLOGY
- MULTIPLE MASTERING FORMATS
- SUPER BIT MAPPING
- CEDAR
- 20 HZ MONITORING
- 20 BIT RECORDING
- 20 BIT EDITING

MARKET LEADERS

- ☎ 0181 446 3218 LONDON
- ☎ 0141 550 4640 GLASGOW
- ☎ 01480 461880 CAMBRIDGE
- ☎ 0161 876 7633 MANCHESTER
- ☎ 0800 581166 FREEPHONE CD

DUPLICATION



- * On-off & short run CD's
- * CD Mastering
- * On CD Printing on one-offs
- * Artwork on small or large runs
- * For all your CD pressing needs at competitive prices

Call C.D.M. on Freephone 0800 525 626

**RELIABLE CASSETTE
DUPLICATION**

- FROM DAT, REEL, OR CASSETTE
- BLANKS WOUND TO LENGTH
- ON BODY PRINTING
- FAST TURNAROUND, HIGH QUALITY

SMALL RUNS UP TO 1,000

PHONE FOR BROCHURE

DUPLITAPE

Tel/Fax: **0161 442 6910**
37 SHAW ROAD, HEATON MOOR, STOCKPORT,
SK4 4AG

PRIME CDS LTD CONTACT JACQUI OR PHIL TEL 0171 561 0400 FAX 0171 272 5393

CDS • CD ROM
SOUNDTOOLS
DIGITAL EDITING



CASSETTES
VIDEO
PQ MASTERING

PACKAGE PRICES ON: 100 • 300 • 500 • 1000 CDs

CASSETTES : REALTIME 1-100 PRODUCTION RUNS : 200 +

PQ MASTERING FROM £ 7 0 FOR 2 MASTERS ON CDR

FULL DESIGN & PRINT SERVICE FOR CD BOOKLETS & CASSETTE INLAYS

ONE-OFF CDs FROM £17 INC VAT • LASER PRINTED LABELS FOR CDS

EMAIL • 101564 2602 @ compuserve com

cd mastering
audio (full pq mastering)
on a pentium SADIe system
data & mixed mode
to cdr & exabyte, PC & Mac
Telephone (0181) 651 2222
Facsimile (0181) 651 3333
e-mail: info@diverse-media.co.uk

**OPAL
DYNAMICS**



OPAL
DYNAMICS

SPECIALISTS IN

- Quality Audio Cassette Duplication
- Custom Wound Blank Cassettes
- On Body Printing
- Printed Labels & Inlay Cards

**Outstanding
Audio
Services**

**TEL: 0161 429 7447
Fax: 0161 429 8088**

MANUFACTURERS OF COMPACT DISCS & AUDIO CASSETTES

| | |
|-------------------|--------------------------|
| CD REPLICATION | CASSETTE DUPLICATION |
| ▶ PRE-MASTERING | ▶ MASTERING |
| ▶ GLASS-MASTERING | ▶ TRANSFER |
| ▶ CD REPLICATION | ▶ HIGH SPEED DUPLICATION |
| ▶ PRINTING | ▶ PRINTING |

!!! ALSO SPECIALISING IN CD-ROMS !!!
Master to Masterpieces
* Quick Service * Cost Savings * Experienced Staff * Professional Results *
ORDER NOW AND GET 50 CD's FREE, LIMITED PERIOD ONLY
FOR MORE INFORMATION AND THE BEST PRICES AROUND CONTACT US ON THE FOLLOWING NUMBERS
Freephone: 0800 515 145 * Telephone: 0181 570 6999 (3 lines) * Fax: 0181 570 7778

CD pressing, cassette duplication, design and repro, print, booklets, inlays, labels

expect
quality product at excellent rates

need
a supplier that meets delivery dates

want
a company that cares about getting it right with experienced professionals to co-ordinate your work

*don't compromise your chance of success,
work with the best.
call sound performance you'll notice the difference.*

tel: 0181 691 2121 fax: 0181 691 3144
unit c, 80 blackheath road, greenwich, london se10 8da

← CASSETTES →

Blank or Duplicated

- ◆ High Quality Chrome & Ferric Tape
- ◆ Cassettes to any length (C2 - C130)
- ◆ Minimum order 20 Cassettes
- ◆ White & Coloured Labels / Inlay Cards
- ◆ Standard, Crystal & Dble Library Cases
- ◆ Ampex reel Tapes / DAT Cassettes
- ◆ Video cassettes & Accessories
- ◆ Computer Disks / Technical books
- ◆ Same day despatch by Credit Card

FREE ! Catalogue and sample cassette

Tel: (01372) 272422 Fax: (01372) 276122

DOWNSOFT LTD
Downsway House, Epsom Road
Ashted, Surrey KT21 1LD

DUPLICATION

WNE (Tamworth)
 BLANK CASSETTES WOUND TO LENGTH
MINIMUM ORDER 50
 CASSETTE DUPLICATION
LOOP BIN MINIMUM ORDER 250
 ON-BODY PRINTING DIGITAL EDITING
 ALL FACILITIES IN HOUSE
0182 731 0052

**ONE-OFF CDs,
 CD MASTERING
 DIGITAL EDITING
 SONIC SOLUTIONS
 SOUND RESTORATION
 CD ROMs**

**SOUND CUTS LTD.
 MASTERING
 SUITE
 0181 964 4091**

Tapeline
CASSETTES & CDs
 * BLANKS
 * LOOP BIN DUPLICATION
 * APEX DIRECT PRINT
 * COMPACT DISCS
 * ACCESSORIES
 * NATIONWIDE DELIVERY
0161 406 8608

As seen on all the best-pressed CDs...
 Digital Mastering by Henry Smithson at Sounds Good,
 Theale, Reading
 Produced by Trevor Yarrow

- One off CDs
- Professional cassette duplication
- Inlay printing

We've listened to more mixes here than you've had hot dinners! Years of experience in professional mastering is free to our CD customers - our CD manufacturing prices include the mastering session, which you can attend, plus a free reference CD-R.

SOUNDS GOOD
 Tel: 01734 302600
 Fax: 01734 303181
 www.sounds-good.co.uk

DUPLICATE
 HEAD OFFICE
 26 FORTWILLIAM PARK BELFAST BT15 4AL
 TEL: 01 232 778395
 FAX: 01 232 781640
 MOBILE: 0850 537759
 DUPLICATION MACHINERY BY TELEX AND SONY
 CD PRODUCTION SERVICE AVAILABLE
 BLANK AUDIO CASSETTES CUSTOM WOUND TO
 EXACT SIZES - CASSETTE DUPLICATION BY
 NORTHERN IRELAND'S ONLY GAUSS LOOP-BIN SYSTEM
 A BJ ENTERPRISES COMPANY

**THE COMPLETE CASSETTE &
 CD PRODUCTION SERVICE**

CASSETTE DUPLICATION & CUSTOM LENGTH BLANKS
 COMPACT DISC MASTERING & REPLICATION
 DIGITAL EDITING • ONE-OFF CD
 ARTWORK, DESIGN & PRINT

FOR A FREE BROCHURE & ALL THE ADVICE YOU NEED

(0191) 495 2324
 (0191) 495 2306

OCTAGON RECORDS & TAPES

Ground Bass Productions
 DIGITAL MASTERING SUITE
 24-BIT DIGITAL EDITING
 ONE-OFF / CD DUPLICATION
 CD ROM AUTHORIZING
 Windsor Centre, Windsor Street, The Angel London N1 8 QH
 Tel: 0171 288 1833 Fax: 0171 288 1834

MUSIC MEDIA MANUFACTURERS Ltd
 Experts in COMPACT DISCS, CASSETTES, VINYL, PRINTING,
 TYPESETTING, GRAPHICS, ADVICE ON ARTWORK.

500 CD Singles Complete Package £650 plus VAT = £763.75 • 1000 CD Singles Complete Package £950 plus VAT = £1116.25
 500 CD Albums Complete Package £800 plus VAT = £940.00 • 1000 CD Albums Complete Package £1150 plus VAT = £1351.25

Don't Be Misled By The Others... Sometimes Their Prices Are Incomplete
 Our Prices For The Above Packages Are COMPLETE including FREE Mastering From DAT, Print Origination from camera ready artwork, Films CD's, Jewel Boxes or Slimline Cases, 4 Page Full Colour Booklet (4/1) and Tray Card or "J" Card. (4/0)

104 HARMOOD STREET, LONDON NW1 8DS
 TEL: 0171 916 4450 FAX: 0171 916 4456

SIMPLY THE BEST DEAL IN TOWN!

**REAL CHEAP
 REAL TIME!**
 Realtime from DAT or cassette
 Small quantity specialist
 Excellent label designs available and more
J B AUDIO/VIDEO
01621 783518

- Hard disk CD Mastering
- One-off CDs & PM-CDs from £10
- Real time cassette copying
- Copy masters and editing
- Laser printed labels & inlays
- Every copy individually checked
- Excellent quality & presentation
- Unparalleled service, best prices
- Fast turnaround – hours not days

MAGNETIC IMAGE
Repeat Performance
London W10
0181 960 7222

The Digital Audio Co
CD Mastering & Manufacture
500 Singles £680
500 Albums £750
 Call Us On 01756 797100
 Price inc mastering (20 min single / 60 min album - over 60 min add £40), discs, cases, 4 page 4 + 1 booklet / traycard from film & packing, ex VAT

FROM THE UK'S LARGEST INDEPENDENT

**CASSETTES
 VINYL
 CD's**

FOR ADVICE, QUOTES & INFO
 PHONE ANDREW
 OR LOUISE
0171 924 1661

MAYKING RECORDS
 250 YORK ROAD, BATTERSEA, LONDON SW11 3SJ

A WORD IN YOUR EAR

TAPESTREAM
 WITH A GAUSS HIGH SPEED LOOP BIN DUPLICATING SYSTEM, DOLBY HX-PRO MASTERING & ON-BODY PRINTING, TAPESTREAM WILL GIVE YOU QUALITY. TAPE AFTER TAPE.

CD'S
 YES TAPESTREAM ARE BROKERING FOR A MAJOR CD PLANT HERE IN ENGLAND, NOW YOU CAN CONVENIENTLY ORDER ALL YOUR REQUIREMENTS UNDER ONE ROOF.

GIVE US A CALL ON:
01798 344108 FOR DETAILS

TAPE Stream
 "DUPLICATING SUCCESS"

THE Cassette duplicator in the south

THE Cassette duplicator in the south

DUPLICATION

COPYTIME

Real time cassette duplication
Specialising in small runs of 50-200
Label and inlay card printing.

RING FOR BROCHURE
0181 421 1970

Panton Music

Audio Cassette & CD Duplication Services including
Blanks · Compilation Editing · Printing etc.
Call Dave Panton **0121 558 8338**
between 10am-4pm Mon-Sat

REAL TIME CASSETTE DUPLICATING
LABEL & INLAY PRINTING.
BLANK CASSETTE SALES.
DAT & AMPEX REEL TAPES.
FRIENDLY, PROFESSIONAL SERVICE
TEL: 01252 794253 FAX: 01252 792642

Keynote
CASSETTES

DIGITAL EDITING

**Pro Tools & Sonic Solutions
Editing & Hire**

Contact: Digital Gratification
Tel: 0171 483 3506

PRO TOOLS

THE BUNKER

DIGITAL EDITING & POST PRODUCTION

COMPILED - REMASTERING - NOISE REDUCTION
TIME COMPRESSION - REVERSE - SOURCE PA SERVICE

Services include:

- CD/DVD Replication
- Digital Audio Restoration
- Digital Audio Conversion
- Digital Audio Compression
- Digital Audio Expansion
- Digital Audio Mixing
- Digital Audio Mastering
- Digital Audio Archiving
- Digital Audio Backup
- Digital Audio Archiving
- Digital Audio Backup

CALL: BEN STONHAM OR ROBIN HILL
0171 209 2128 / 2125

FOR HIRE

**ADVANCED SOUNDS LTD
(Hire & Sales)**

- Musical & Studio Equipment Hire
- Home Recording Packages Hire
- New & Used Equipment Sales - Part/Ex
- Delivery/Collection - Nationwide

LOW RATES / GOOD SERVICE

0181 462 6261 (or 8621)

New PA Hire Service

400W to 2K with Foldback
Hughes & Kettner Pro Cabs
Soundcraft, Mackie, H&K desks
Rates from £50 to £250 pd
Dry Hire to Full Production
Call for free info pack!
We offer Pro PA systems for
Gigs, Functions and Parties.

tickle 0181 964 3399
The best in Pro-Audio Hire and Sales

COUNTERPOINT CLASSICAL

BEST PRICES BEST SERVICE

CASSETTE BLANKS/DUPLICATING
HARD DISC DIGITAL EDITING

PO Box 6 Hengoed 01495 201116
S. Wales CF8 7SR Mobile 0860 333089

INSURANCE

**Sound
Insurance**

PHONE BERNADETTE OR DAVID
FOR YOUR FREE QUOTATION

**HENCILLA CANWORTH
INSURANCE GROUP**

0181 686 5050

Insurance House,
27/29 Brighton Road,
Croydon CR2 6EB



**G.M.
INSURANCE
LIMITED**

**WHY PAY MORE FOR
YOUR INSURANCE
THAN YOU NEED?**

Our specifically designed schemes for
musical instruments and equipment,
employers & public liability,
non appearance, travel & motor
will help cut costs.

G.M. IMBER LIMITED
FREEPOST SE5052 GRANGE HOUSE
GRANGE WALK LONDON SE1 3DT
Tel: 0171 231 5005 Fax: 0171 252 3656

FOR HIRE

ATLANTIC HIRE SERVICES LTD

RECORDING EQUIPMENT HIRE
Discounts — Best Rates

TEL: 0181-209-1384/0025 (24HRS)

STUDIOHIRE

0 1 7 1 - 4 3 1 - 0 2 1 2
0 1 7 1 - 4 3 1 - 0 2 1 2

• YOU'VE READ THE REVIEWS IN THIS MAGAZINE.
• NOW YOU CAN HIRE THE LATEST EQUIPMENT FROM US!
• NEW ADDITIONS INCLUDE DIGIDESIGN PROTOOLS 3, TECHNOX,
• KORG TRINITY PLUS & PROPHICCY, SORDLEAD, BASS STATIONS,
• WALDORF WAVE, KURZWEIL, K2500, PC88, QUADRASYNTH PLUS,
• AKAI S3200XL, S3400XL, DR8, DR40, EMULATOR 4, E64, E51-32,
• PLUS TOO MANY VINTAGE SYNTHESIZERS TO MENTION HERE!
• YOU NAME IT, WE'VE GOT IT!

Audiohire

Hire of virtually any recording
and backline equipment

Tel: 0181-960 4466

SOFT CASES & COVERS

**QUALITY COVERS
& SOFT PADDED CASES
ANY MANUFACTURER
ANY MODEL**

AKAI, AMPEG, CARLSBRO, E.V., ENSONIQ, FENDER,
J.B.L., KAWAI, KORG, KURZWEIL, LANEY, MARSHALL,
MESA BOOGIE, PEAVEY, RIVERA, ROLAND, TECHNICS,
TRACE ELLIOT, VOX, YAMAHA.

Sample and Brochure from:
CAPITAL MAMBA

PO Box 150
Aldershot GU12 6YP

Tel: 01252 336505

ARTISTS WANTED

Singers / Songwriters

You've got the words & melodies, we've got the production skills,
digital studio, industry contacts + track record, to turn your ideas
into hits. Dance / Soul / Pop specialists - promotion possible

Creative Productions

Tel 0181 337 6311 or 0181 296 9962

CATHARINE COURAGE MUSIC

ARE NOW LOOKING FOR

Female Mainstream/R & B

Dance trax to license to European & Japanese labels
For further details contact Mike Shepstone

48 De Lisle Road,
Bournemouth
BH3 7NG

TEL & FAX
01202 241508

FIND YOURSELF A RECORD DEAL

**IN THE BANDIT A&R NEWSLETTER
TRY IT - FREE**

BANDIT will tell you which Record labels, Publishers, Production
Co's etc are currently looking for new artists - Information is
Power! If you're an ambitious act send an SAE to Bandit for your
FREE SAMPLE EDITION of this invaluable monthly newsletter.

BANDIT (SOS), PO Box 22, Newport, Isle of Wight PO30 1LZ.
For immediate 24 hrs info call the BANDIT NEWSLINE on

0336-411-277

Ring this number for 4 new companies looking for new
talent each week. Operated in conjunction with the
International Songwriters Association.

Calls charged at 39p/min cheap rate & 45p/min at all other times.
Email: John.Waterman@icsica.demon.co.uk.

A & R LIST

OVER 1000 CONTACTS FOR ONLY £6.00

- Including*
- Contact Name
 - Address
 - Phone number and Fax
 - Style of Music
- Also available*
- Fanzine lists £3.00, 450 entries
 - Recording, rehearsal and venue lists +
FREE GIG GUIDE, 800 entries, £5.00
 - Musical Services List, 500 entries, £5.00
 - The List, 800 entries, a budget priced
compilation from all the TMR Lists, £4.50
 - The Demo Guide, everything you'll need to know from
making to packaging, targeting and follow up, £6.00
Many other services available inc:-
 - DAT Duplication / Compilation
 - Cassette / Video Duplication
 - Demo Targeting
 - Recording Studio etc.
- Please write or fax for details
All lists updated regularly
Payable to Mr. M. Bell
TMR c/o Mr. M. Bell,
PO Box 3775, London SE18 3QR
Tel/Fax: 0181-316-4690

COURSES

RIGHT TRACK STUDIOS

Engineering midi and arranging courses in Herefordshire, beginners to advanced.
Contact David Etheridge on
01432 880442
for details

134

TUNESMITHY MUSIC NEW LISTENING COURSE

Listening Aural Practice for G.C.S.E., ONVQ and A Level.
Rhythm - Drum Patterns, Intervals, Melodies and Chords, Real Instruments, Form and Texture Recognition, Spot the mistake in the Tune etc.

Cassette and Booklet £12.50 (+£1.50 P+P)

TUNESMITHY MUSIC

69 Lowdale Lane, Sleights, Whitby, North Yorkshire YO22 5AD, UK

POINT BLANK TRAINING

8 week practical course in latest studio technology including: Sampling, Sequencing, Digital Recording and Mixing. Based in East London. Free parking. For information call:

0181 293 4909

1164

MIDI & RECORDING SOLUTIONS

Individual tuition and modular courses in:-

- Sequencing, sampling, synthesis, drum programming
- Mixing desks, effects, multitrack recording, engineering
- Synchronization, mastering

Problem solving of existing equipment or studio set-ups
Call outs in the London area

Tel: **0181-520-8827**

1216

THE RECORDING WORKSHOP

Provides one of the most affordable comprehensive range of exclusive 2-8 months part time day/evening practical courses on all aspects of Sound Recording including Multi-tracking, Cubase and Sampling.

Beginners welcome, concessionary rates available.

Established since 1989, working 16 track studio based in West London with easy access and free parking.

653

FOR PROSPECTUS : 0181-743 2645



MEDIA PRODUCTION FACILITIES

Bon Marche Building, Ferndale Road, London SW9 8EJ
Tel: 0171 737 7152 or 0171 274 4000

RECORDING AND PRODUCTION TRAINING

Constantly updated full-time courses operated in association with the pro-audio industry providing unique access to the latest analogue & digital systems in our 24-track automated studio and digital programming suite:

One year full-time Diploma Course

ADVANCED SOUND RECORDING & PRODUCTION TECHNIQUES
Practically based tuition in small groups with theory from internationally recognised specialists supplemented with new technology from leading manufacturers.

Three months full-time Certificate courses

ANALOGUE SOUND RECORDING & PRODUCTION
DIGITAL SOUND RECORDING & PRODUCTION

These comprehensive courses give the necessary skills & experience to gain employment in the audio-visual industries.

One week full-time course

INTRODUCTION TO SOUND RECORDING & MIXING
An entirely practical foundation course (9th/16th Sept '96)

5 & 10 day full-time course

AUDIO FOR TV/FILM -

Practically based course, including multi-machine synchronisation and full mix-to-picture.

COURSES COMMENCE ON 23rd SEPTEMBER 1996

Extensive range of TV/video & Computer Graphics/Animation courses also available

1409



Principal R. J. Trebilcock
M.Sc. B.Sc. (Hons), M.Inst.P.

NEATH COLLEGE

(in association with
Welsh College of Music & Drama)



Principal Edmund Ffytel
MA, FRM

**ARE YOU LOOKING FOR A
JOB IN THE MUSIC INDUSTRY**

The
Higher National Diploma

at Neath College, in conjunction with the Welsh College of Music and Drama,

is designed to provide the essential skills and training for students in the highly competitive field of Popular Music. This 2 year full-time course includes Recording Techniques, Music Performance Techniques, Composition and Arrangement, Music for Media, Jazz, Business Planning etc. Successful applicants will automatically qualify for a grant (Mandatory Award).

For further details and an application form, please telephone or write to: Admissions Unit Neath College, Dwyrfelin Road, Neath, West Glamorgan SA10 7RF. Tel: (01639) 634271. Fax: (01639) 637453.

869

"IT'S ALL THE PRACTICAL TIME THAT MAKES THE DIFFERENCE"

Don't
listen to
us!
Listen to
our
students



C. Lawmann
SAE Graduate '92
Award Winning Sound Engineer

Call our college for a free colour brochure and a tour of our facilities:

LONDON 0171-609 2653 PARIS 01-4811 9696
VIENNA 01-330 4133 ZURICH 01-445 2040
MILANO 02-8912 0540 AMSTERDAM 020-689 4189
BERLIN 030-456 5137 MUNICH 089-675167
HAMBURG 040-233676 FRANKFURT 069-543 262
GLASGOW 0141-221 3441 COLOGNE 0221-954 1220
STOCKHOLM 08-730 5100

Also in Sydney, Melbourne, Perth, Adelaide, Brisbane, Hobart, Singapore, Auckland, Kuala Lumpur

COURSES



CITY AND GUILD SUMMER COURSES

The Institute of Music and Technology at Hurricane Studios is the UK centre for City and Guilds qualifications 2337 and 2338. Our condensed 7 week intensive courses in Sound Engineering and Music Technology are available from the 22nd July 1996. 32 Track Digital Studio, 24 Track Analogue and 3 MIDI Studios. Each training group is small so places are limited.

Phone now for details and a free prospectus
Tel: 0181-699 6945
Fax: 0181-699 5845

LONDON BELFAST DUBLIN 1441



Diploma Courses in SSL G+/24 Track Engineering and MIDI Programming



For free brochure
 Call 0171-608-0231

Big concessions for unwaged 1211

FRUSTRATED? Can't get the results you want?

TRAINING?

INTRODUCING A WEEKEND BASED INTENSIVE SOUND ENGINEERING COURSE...

...which will take place in the famous **Ealing Film Studios** and in the **London College of Music** using custom designed facilities. The course is designed to be very much "hands on" using the latest Digital and Analogue technologies. Subjects covered include - Hard Disk Editing, "The Mix", Equalisation and Microphone Techniques.

For more information and an application form telephone or write to us at the following address. **SOME AUDIO TRAINING, THE DOWN TO EARTH CENTRE BROADWAY LONDON E15 1MS. TEL 0181 534 6666 or Mobile 0989 532 914**

Produced with the aid and support of **SOUNCRAFT** and **SPIRIT** by **SOUNCRAFT** and **THAMES VALLEY UNIVERSITY**.



The Cutting Rooms

Intensive Courses in Sound Engineering.

A programme of short courses in a wide range of sound engineering skills. From beginners to advanced, engineering/production techniques and specialised topics. Please call for a brochure and course dates.

Paul or Mike on +44 (0)161 740 9438 1441



LIVE AUDIO TRAINING



Under real Concert environment

Practical experience in setting up, mixing Monitors and Front of House. Tutorials take place at top London venues.

For a brochure - Fax your name/address & tel no.

Fax: 0171 700 4600

Or phone **Tel: 0171 700 3271** 1087

STUDIO ACOUSTICS

ACOUSTIC BASS END CONTROL

TOTALLY, TOTALLY NEW, INNOVATIVE, SIMPLE, AND BRILLIANT!

- ❑ LIGHT WEIGHT BASS TRAPS, JUST TWO SCREW FIX TO WALL OR CEILING ONLY 4" DEEP.
- ❑ ADJUSTABLE FROM 70 HZ UP.
- ❑ REMAIN ADJUSTABLE FOREVER — TAKE THEM WITH YOU WHEN YOU MOVE.
- ❑ A RIDICULOUS CONCEPT — "BUY ONCE ACOUSTICS".
- ❑ TREAT OVERNIGHT-NO NEED FOR BUILDING WORK.
- ❑ NO NEED FOR "DOWN TIME"
- ❑ COST EFFECTIVE.
- ❑ THE ONLY ALTERNATIVE TO TRADITIONAL METHODS.
- ❑ DESIGNED AND MANUFACTURED BY

**absolute
audio**

THE PEOPLE WHO KNOW ABOUT BOTTOM

PHONE 01295 273405 FOR DETAILS 1441

THE STUDIO WIZARD

Will Design, Supply, Build, Train, Install, Debug and save you money! So if you want a studio that works like magic call me!

0860 666532

FROM A LITTLE ADVICE — TO A COMPLETE CONSTRUCTION PROJECT — AT THE RIGHT PRICE!

Email: studio.wizard@paston.co.uk
 Web: www.paston.co.uk/studio.wizard/homepage 1440

TUITION / PROGRAMMING

Logic™ One-to-One Tuition

MAC • ATARI • PC

Peter Dudley

0181-923 8989 1410

CLUBS

40 Clarendon Rd West, Chorlton, Manchester, M21 0RL



A New Control Room?

- Whatever the scale of your project, almost any control room can benefit from the design principles of the Early Sound Scattering room.
- Instead of relying on creating a reflection free zone, in this new configuration of room the unwanted reflections are masked by many randomized low level reflections from the front of the room, allowing consistently accurate response and imaging throughout the room regardless of equipment layout.
- This means that very different rooms can be made subjectively identical, providing the closest thing yet to absolute reference monitoring.

If you're serious about your new control room, you should be talking to

Andrew J. Parry
 on 0161 861 0857

ELECTROACOUSTIC SYSTEM SPECIALISTS 1079



Courses for 1996

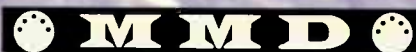
Courses & Seminars are currently running for Roland synths, samplers etc. designed to help you get the most out of your Gear

❖ Call for further details ❖

Hurry & Join Today!

- Full Technical Support
- Savings on Products & Services
- Club Magazines & News Letters
- Latest News on Roland & Boss Products
- Use of Roland Sample Copying Centre
- Mail Order Sample copying service

Tel: (01733) 233135 10am to 5pm Mon-Fri 1004



The MIDI & MUSICIANS DIRECTORY 1440

The MMD is an expanding database of progressive individuals who use and abuse today's modern innovations in music production. Join the MMD network of musicians, producers, engineers, DJ's, drummers, vocalists, programmers, etc and receive quarterly membership updates and the MMD newsletter, free promotional / noticeboard space, discounted services, competitions, advice contact lists, studio workshops, humour... Amateurs & Pro's welcome.

£10 / year membership guarantees 4 updates & 4 newsletters.
 Phone Jules on 0171 328 0865 for details / info / application form

GENERALMUSIC



Call us now for your **FREE GENERALMUSIC Magazine**
Tel: (+44) 01227 742790 Fax: (+44) 01227 742791
 46 Hampton Close, Herne Bay, Kent CT6 8BZ. UK 1427

SERVICES

THE STUDIO DOCTOR

Analogue • Digital • MIDI
Installations • Patchbays
Wiring • Debugging • Training

**PHONE IAN ON
0956 - 580332**

ADVANCED SOUNDS LTD (Service & Repairs)

SERVICE FOR:

- ★ Most tape Machines ★ Most keyboards
- ★ Hire & Sales division

LOW RATES / GOOD SERVICE

0181 462 6261 or 8621

REPAIRS + SALES

MONITORS, CD - ROMS,
DAT DRIVES, FLOPPIES
& HARD DRIVES.

LARGE STOCKS AVAILABLE
(NEW & REFURBISHED)

REPAIRS UNDERTAKEN ON
ALL THE ABOVE PRODUCTS

WOODVILLE LTD

28 WATFORD METRO CENTRE
TOLPITS LANE, WATFORD WD1 8SS

TEL: 01923 213350
FAX: 01923 211650

MOST MAJOR
CREDIT CARDS
ACCEPTED

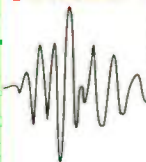
DAT
DAT
DAT

DAT RECORDER SERVICE & MAINTENANCE

ALL MAKES OF DIGITAL RECORDERS
2 TO 8 TRACK
3-5 DAY TURNAROUND
FREE REPAIR QUOTATIONS
NATIONWIDE COLLECTION & DELIVERY
ProDigital Audio Services

01308 422 866

Studio design & build



We have the expertise
and equipment to solve
all your isolation and
acoustics problems.

• Design only or
• Full construction
• Air conditioning
• Audio/video wiring

SM acoustics

Tele: 01952 510508 Mob: 0850 292440
email: 100714,2673@compuserve.com

Call us now for a complete solution or just a little advice!



Panic Music Services

AUTHORISED HI-TECH
SERVICE CENTRE

FOR:

Roland **KORG**

YAMAHA **AKAI**

TEAC **SANSUI**

REPAIRS TO ALL MAKES OF
KEYBOARDS - SYNTHS MODULES - SAMPLERS
AND AMPLIFICATION.

ALL VINTAGE SYNTHESISERS REPAIRED
COMPUTERS - ATARI - MACINTOSH - PC'S
ALL WORK TO BS5750
QUALITY INSPECTED

CALL US ON 01954 231348

Alesis ADAT & Tascam DA88 Specialist Service Centre

Expert ADAT & DA88 Repair and Servicing for:

- Reliable and consistent machine operation.
- Record and replay data security.
- Fast and stable machine lock.
- Reduced Error Correction activity.

We deliver:

- Rapid and flexible turn around times.
- Manufacturer's 500 Hour Maintenance Programme.
- Collection and Delivery.
- Professional Quality Control and Service Warranty.

Call Aspen Media Service for details.

01442 399 949



ASPEN

MEDIA LIMITED 222 Maylands Avenue, Hemel Hempstead, Herts HP2 7TD

Hi-Tech Repairs

at the new look **CIMPLE Solutions**

YAMAHA

Roland

FOSTEX

TASCAM

ZENON

OPCODE SYSTEMS INC

Oberheim

AKAI
AUTHORISED
SERVICE
CENTRE

E-MU

What does it take to

maintain
a healthy **working**

Cimple. We have the **studio**
Solutions



As featured in the
March & April '96
issues of SOS

FEDNEY

JL COOPER

ALESIS

KORG

ART

Many other brands also
repaired, please call.

Unit 2/17 Wembley Commercial Centre
80 East Lane • North Wembley • Middlesex • HA9 7UR
200 Yards from N. Wembley Station • Bakerloo Line

WHILE-U-WAIT SERVICE @ NO Extra Charge
FOR ALL OPERATING SYSTEM SOFTWARE UPDATES,
DRIVE REPLACEMENTS and any other repairs - please ask!
HARD DISKS AND MEMORY
UPGRADES FOR ANYTHING THAT CAN TAKE IT
EMU PROTEUS 1, 2 or 3 OWNERS
UPGRADE TO AN X86 VERSION FOR ONLY £47
Need more MIDI channels?
"RETRAP" A TOTAL OF 24 MIDI CHANNELS FOR
YOUR ATARI ET (Shipping of 5 Mags for ONLY £29
Please add £4.00 P&P for all orders. All prices include VAT

**CIMPLE
SOLUTIONS**

Tel • 0181 904 4141
Mobile • 0973 723033
Fax • 0181 904 1200

REPAIRS • REPAIRS • REPAIRS • REPAIRS



THE FRIENDLIEST REPAIR & SERVICE CENTRE IN THE UK

FREE

5 STAR SERVICE

Years of Sound Experience

Amps, Keyboards, Samplers, FX Units, Mixers, Guitars, Drum Machines, DAT's, Expanders, Tape Machine, Sequencers, PC, Atari's, Drums & Hi-Fi's



Main Service Centres



The Only UK's Official Roland Owners Service centre

- ★ Collection from Home or Office
- ★ Location of faults
- ★ Equipment test
- ★ Estimates of repairs
- ★ 3 months warranty and labour

JUST GIVE US A RING
ON 01203 665665
OR FAX US
ON 01203 666669
7 DAYS A WEEK



in-sync service limited
Unit 6, 43 Carol Street, Camden Town,
London NW1 0HT

Specialists in servicing
Revox / Teac / Tascam / Fostex tape machines

0171 485 3447

Need Fast Efficient Service & Repairs?

G C ELECTRONICS PROVIDE IT!

0181 597 4184

Synthesiser Service Centre



Smallest ads
Greatest expertise
Best value
Need we say more?

0171 586 0357 / 7275
Unit 3, 6 Erskine Road, London NW3 3AJ

RECORDING STUDIO (SEE PAGE 253)

HOXTON STUDIOS

24 track (ADAT) Digital Studio with comprehensive Digital Editing (Soundscape - 8 trk). Trident 36:24:24 desk, Cubase (Mac/Atari/PC), C-Lab Akai S3200 XL (16Mb) + extensive sample library. Pro effects (PCM70, 1960, etc). Neumann, AKG Mics. Tascam DA30 II + DAT-DAT copying. Purpose built live room, daylight in every room + great atmosphere. Producers, Engineers + Programmers available.

Call for rates and info:

Tel: 0171 613 5003
Fax: 0171 613 5020

The Advertisers Index

| | | | | | |
|---------------------------------------|-----------------|-----------------------|-----------------------------------|-----------------|--|
| ABC Music Company | ☎ 0181 974 5505 | 227 | Multi Media Music | ☎ 01623 422688 | 129 |
| Active Sound | ☎ 01923 246282 | 192-193 | Music Connections | ☎ 01245 354777 | 54-55, 56-57, 58-59, 60-61 |
| Akai UK | ☎ 0181 897 6388 | 199 | Music House Data Products | ☎ 01438 833222 | 211 |
| Alchemia School of Recording | ☎ 0171 359 3986 | 221 | Music Lab | ☎ 0171 388 5392 | 135, Loose Insert |
| Andertons Music Company | ☎ 01483 38212 | 87 | Music Solutions | ☎ 01438 750751 | 203 |
| Arbiter PLC | ☎ 0181 202 1199 | 63, 102-103, 117, 195 | Music Village | ☎ 0181 598 9506 | 108-109, 110 |
| Audio Technica | ☎ 0113 277 1441 | 33 | Musictrack | ☎ 01462 733310 | IFC |
| Axis Audio Systems | ☎ 0161 474 7626 | 141, 213 | Natural Audio | ☎ 0181 207 1717 | 101 |
| Babel Systems | ☎ 0181 749 8222 | 167, 211 | Peavey Electronics Corporation UK | ☎ 01536 461234 | 183 |
| Behringer UK | ☎ 01483 458877 | 85, 169, 219 | Pro Music | ☎ 01284 765765 | 191 |
| Beyer Dynamic GB | ☎ 01444 258258 | 159 | Project Music | ☎ 0181 570 4444 | 97 |
| Blue Systems UK | ☎ 01799 584095 | 204-206 | Prosonix | ☎ 01323 848808 | 191 |
| British Music Fair / Plaza | ☎ 0181 426 0171 | 231 | Raper & Wayman | ☎ 0181 800 8288 | 65 |
| Brandoni Music | ☎ 0181 908 2323 | 191 | Rimmers Music | ☎ 01772 433281 | 157 |
| Carlsbro Retail | ☎ 01623 645501 | 152-153 | Rockbottom Music | ☎ 0181 680 1042 | 227 |
| CC Music | ☎ 0141 339 0566 | 113 | Roland UK | ☎ 01792 702701 | 107 |
| Concert Systems | ☎ 0161 927 7700 | 207 | School of Audio Engineering | ☎ 0171 609 2653 | 185 |
| DACS | ☎ 0191 438 5585 | 209 | SCV Electronics London | ☎ 0171 923 1892 | IBC, 71, 123, 125 |
| Dance Village | ☎ 0181 440 3440 | 223 | Sound Business Studio Sales | ☎ 0181 559 0373 | 151, 217 |
| Dawsons Music | ☎ 01925 632591 | 170-171 | Sound Control | ☎ 0800 525260 | 68-69, 162-163 |
| Digidign UK | ☎ 01753 653322 | 95 | Sound Division | ☎ 0171 609 3939 | 73, 75 |
| Digital Village | ☎ 0181 440 3440 | 181 | Sound Technology plc | ☎ 01462 480000 | 9, 137, 139 |
| Emu Systems UK | ☎ 0131 653 6556 | 165 | Soundcraft Electronics | ☎ 01707 665000 | 19 |
| Eddie Moors Music | ☎ 01202 395135 | 224-225 | Sounds Live | ☎ 0191 230 3422 | 37 |
| Emble | ☎ 0117 956 1855 | 93 | Spirit by Soundcraft | ☎ 01707 665000 | 15, 149, 179 |
| FJ Music | ☎ 0181 374 1054 | 99 | SRTL | ☎ 01243 379834 | 118-119 |
| Gateway School of Recording | ☎ 0181 549 0014 | 141 | Strling Audio Systems | ☎ 0171 624 6000 | 86-87 |
| Gig Sounds | ☎ 0181 769 6496 | 207 | Studiosparis | ☎ 0171 482 1632 | 161 |
| Harman International Industries (AKG) | ☎ 0181 207 5050 | 53 | Swan Publicity | ☎ 01628 487820 | 211 |
| HHB Communications | ☎ 0181 960 2144 | 127 | Syco Systems | ☎ 0171 625 6070 | 165 |
| HW International (Shure) | ☎ 0181 808 2222 | 201 | Systems Workshop | ☎ 01691 658550 | 167 |
| Intasound | ☎ 0500 515256 | 197 | Tascam UK | ☎ 01923 819630 | 45 |
| Kenton Electronics | ☎ 0181 337 0333 | 141 | Tech-mate UK | ☎ 01206 793355 | 176-177 |
| Key Audio Systems | ☎ 01245 344001 | 11, 89, 143, 217 | The Computer Warehouse (TCW) | ☎ 0171 724 7104 | 5 |
| Key Audio Systems (Quasar) | ☎ 01245 344001 | 91 | The M Corporation | ☎ 01425 480569 | 78-79, 80-81 |
| Keyboard & Drum Tech | ☎ 0181 749 3131 | 99 | The Synthesizer Company (TSC) | ☎ 0171 258 3454 | 2, 3, 4 |
| Keys Musical Instruments | ☎ 0161 627 0614 | 209 | The Way Out West Music Company | ☎ 0181 744 1040 | 47 |
| KGM Studio Specialists | ☎ 01924 371766 | 188-189 | Time & Space (Zero-G) | ☎ 01442 870681 | 130-131, 132-133 |
| Korg UK | ☎ 01908 857100 | 0BC | Tony Larking Audio | ☎ 01462 490600 | 115 |
| MCMXCIX Distribution (Opcode Systems) | ☎ 0171 723 7221 | 1 | Turnkey | ☎ 0171 240 4036 | 22-23, 24-25, 26-27, 28-29, 30, 173, 229 |
| Musical Audio Distribution (M.A.D) | ☎ 0181 452 1009 | 77 | Unity Audio | ☎ 01920 822890 | 35 |
| Marks Music | ☎ 01473 287872 | 145 | Washburn UK | ☎ 01462 482466 | 215 |
| Midiman UK | ☎ 01205 290680 | 49, 51 | X - Music | ☎ 0117 973 4734 | 146-147 |
| Millennium Music Software | ☎ 0115 955 2200 | 43, 105 | Yamaha - Kemble Music | ☎ 01908 366700 | 21, 175 |



Somebody has to write an epitaph to the semi-art form pop music — which, in my opinion, died sometime in the mid-'70s — somebody with the conviction to speak out against the complacent music business. The industry has descended into a barren, moronic inferno, sterile as an operating theatre and largely devoid of real talent. Much of the blame for this lies with UK record companies, who have been trying to outdo Josef Goebbels by brainwashing the public into believing that what they are given is what they actually want. I see companies cynically manipulating sales figures and applying every known trick to bulldoze the public into buying what I consider to be a fake product rather than the genuine article. Indeed, over the past 20 years or so, we've been fed such a monstrous amount of garbage — passed off as music, but unworthy of the title — that a whole generation has grown up believing that what they hear is the best there is. This view

may upset the cloth-eared, pseudo-experts working for the record companies — but the truth hurts.

If pop music is losing out to computer games and other distractions, as we are told, the record companies only have themselves to blame — they don't seem to give a damn about the music, only short-term profit. How else do you explain the

phenomenal success of re-releases and cover versions of classic pop songs such

'Unchained Melody' — reported to be the biggest-selling single of the decade? The original versions of all these classics were created using relatively primitive gear, and would sound good played on just an acoustic guitar, whereas the gradually worsening trash of the past two decades has the benefit of improved recording technology and the 1001 sounds that synthesis and sampling have to offer. But it's still trash!

Anyone dismissing current 'politically correct' musical fashions tends to be castigated, or at best, labelled old-fashioned. Yet I am neither old nor old-fashioned, nor am I opposed to any new style of good music. But the secret of a good song is, as ever, a memorable melody capable of evoking emotion, supported by an accomplished performance. Such qualities engender longevity. Who will be playing the majority of today's pop music in two years' time, let alone 10? What today's hopelessly untalented songwriters fail to realise — along with their equally tone-deaf hype champions in the record companies — is that you can't just string together an almost random sequence of notes and call it a melody. Nor can you add moronic lyrics and call the result a song. That's why flashy, irrelevant

videos featuring half-naked, nubile dancers are used to camouflage banal songs. Composing music which is meaningful to the human brain takes real talent and feeling, all of which is sadly lacking from the typical *Top Of The Pops* music scene.

The overriding fixation on the 'bottom line' — making money — is evident in the ruthless exploitation of TV personalities. The sniggering record companies treat the public like fools, and seem prepared to sign up any soap opera star, footballer, model, boxer or even Donald Duck if they think they can sell records. It's a sad fact that you can find better singers in many Karaoke bars, or even on the streets, than on *TOTP*. In fact, the musical content of an act is now a relatively unimportant part of its market potential, judging by a recent TV interview with a bunch of schoolgirl Take That fans. When discussing the merits of the band, there was much mention of nice smiles, attractive band members and nice bums, but precious little about the music. This shameless pandering to the lowest common denominator has resulted in the virtual disappearance of good songwriters and musicians.

Of course, computers haven't helped — they now seem to be the masters, not the slaves, churning out variations on three or four repetitive motifs which have already been done to death by the likes of Stock, Aitken and Waterman, the Pet Shop Boys, Erasure and so on. Where are the UK's equivalents of Whitney Houston, Tina Turner, Mariah Carey, Michael Bolton or even Michael Jackson? Now we have Sam Fox, direct from page three, Kim Wilde, and the award-winning (yes, really!), Jason Donovan — heaven help us! Even the old-school performers like Bowie and Elton John did their best stuff long ago, but the fact that they are still major names is a sad indictment of their would-be replacements, who've failed to deliver. Even the Brit awards have lost all credibility after a series of increasingly absurd nominations, and the tuneless meanderings of over-hyped 'darlings' such as Pulp, Blur, Oasis and Supergrass do little to inspire confidence. The late John Lennon would surely turn in his grave to hear Oasis described as the new Beatles; whoever coined that one could surely use some psychiatric help.

Unless the record companies can climb out of this mess of their own making, they should call it a day — they have no more idea of who to sign than a donkey has of how to play chess. No wonder the UK is no longer a driving force in world pop music. It must be demoralising for real performers and songwriters to realise that unless they jump the queue by first joining the cast of *Eastenders* and *Neighbours*, they just won't get a break. If, as all the evidence suggests, the record companies only want to make money, why don't they move into manufacturing toilet rolls? There'll always be a call for them, and they're just as disposable as the music currently on offer! **SOS**

**SOS reader,
songwriter and
freelance producer
STEVEN ROBINSON
has some strong
opinions on the state
of pop music today.
In this month's
stream of invective,
he gets some of it off
his chest...**

If you'd like to air your views in *Sounding Off*, please send your ideas to: *Sounding Off*, Sound On Sound, Media House, Burrell Road, St Ives, Cambs PE17 4LE. Any comments on the contents of previous columns are also welcome, and should be addressed to the Editor at the same address.

Will your next Gated Compressor be this versatile

2 Independent Compressors



- Fully variable Threshold, Ratio, Attack & Release
- Switchable Hi/Lo filter for De-essing & De-popping
- Half band mode for selective compression techniques
- Feed from balanced XLR input and/or adjacent gate
- Proprietary FET gain circuitry for superior quality

2 Independent Noise Gates



- Auto & Fast (50µS) attack modes for superb transients
- Multi function LED signals Threshold & Release rate
- External key input with Listen mode
- Balanced XLR inputs & outputs
- Use with Hi & Lo filters for frequency conscious gating

2 Independent Filters



- Top quality Hi & Lo pass filters
- Use independently or in conjunction with 4x4 gate
- Selective Noise Reduction removes hiss & hum
- Insert into gate sidechain for frequency conscious gating
- Dedicated input & output on 1/4" jacks

ALSO AVAILABLE

The LA Audio 4C offers 4 channels of 4x4 compression complete with half multiband modes and filters while the 4G features 4 channels of 4x4 noise gate and filters along with SNR external keying and frequency conscious gating.



LA AUDIO 4C
LA AUDIO 4G



LA AUDIO 4X4

By incorporating all the above processors into 1U of rack space, LA Audio have made the 4x4 one of the most versatile analogue signal processors available today. Indeed, Paul White of SOS described the original LA Audio 4x4 as "the Swiss Army knife approach to signal processing." Balanced XLR inputs means it's ready for any professional environment. The SIX processors are totally independent,

yet can be switch-integrated to make the most powerful of gated compressors. And features such as half band & multi-band compression; selective noise reduction (SNR); De-essing / De-popping are standard. It all makes for some truly remarkable signal processing. But then again the LA Audio 4x4 is a truly remarkable machine.



A TOUCH OF CLASS



What puts Trinity in a class of its own?

Start with 24 MBytes of totally new PCM, sampled at 48K for better than CD quality.

Add Resonant Multimode Filters and up to 11 simultaneous effects.

Allow intuitive editing with Touchview™ graphical user interface. Then provide unparalleled expandability including Prophecy Physical Modelling, Flash Sample ROM, Digital I/O and Hard Disk Recording.

The new KORG Trinity - a complete studio at your fingertips.

For further information write to,
KORG (UK) Ltd, 9 Newmarket Court,
Kingston, Milton Keynes. MK10 0AU.

KORG