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# Peter Gabnels

# Xplora 1

the CD-ROM revolution raises ahead of steam

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future vision of technology

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E-mu Morpheus synth
Seqwin v2 MultiMedia software
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A Peauer Specifish

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2 aux sends, DB	X noise reduction,

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MDF2 data file

RY30 drum machine

RY10 drum machine

MV802 rack mixer

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P2075 power amp

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NS10MC studio monitors AM802 mixer.

Sphone 2

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ï	Quadraverb GT	£399
Į	MIDIverb III	£Phone
	Microverb III	£Phone
	3630 compressor	£Phone
	D4 drum sound	
	module	£Phone
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cabs pair	2990
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Tascam M1B line mixer	
Roland M-160 line mixer	
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Peavey KB300 keyboard comb	o£35
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# the first place

Uppermost in our minds during the lengthy deliberations which accompanied the restyling and realignment of MT back in August, was the achieving of a layout which would go some way to reflecting the visual excitement of the music with which the magazine is associated. As we have been at some pains to point out, an increasing number of contemporary musicians have come to realise the importance of visual Imagery and we have seen it as our task to bring their efforts to your attention by whatever means we have at our disposal.

This, of course, has resulted in a magazine of vastly different appearance, and one which we are constantly trying to gauge reaction to. Similarly, the directional changes which have placed multimedia, clubtech and lighting equipment next to reviews of more traditional MT products such as synths and samplers, are also awaiting judgement from the people whose opinions we value most highly - our readers.

Although - and indeed because - we do not consider this stage in the magazine's development to be anything like at an end, we would be more than grateful to receive a little feedback from you, the reader, so that we can more accurately map out the future over the next twelve months. It is with this in mind that I would ask you to complete the questionnaire for this year's Readership Survey – our most vital means of canvassing your opinion and of 'tailoring' the magazine to suit your needs. As an added inducement, there's a rather excellent competition associated with the survey which should help brighten the winter months for at least some of you. But for everyone, there's an opportunity to have your say and play some part in determining the direction of the magazine.

Nigel Lord

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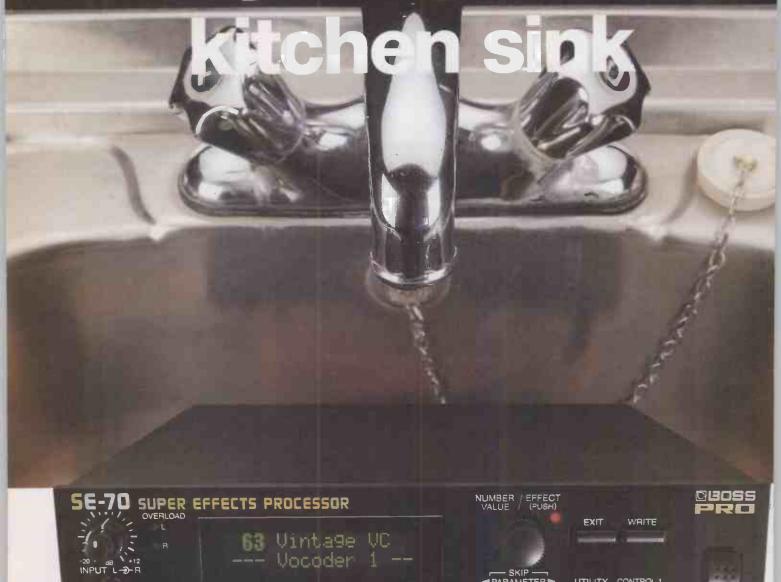
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PHONES



POWER

# MT issue 87 January 1994

### 8 Scanners

Learn to read the future in these pages...

# 16 The FutureSound Of London

Simon Trask discovers the future sound – and vision – of London

# 24 Computer World

Want to get into computing and multimedia but unsure where to start? Ian Waugh guides you through the maze of computers and jargon



## 29 Swim Records

Simon Trask dives into the world of a desktop record label

### • 31 *MT*ease

Keith Emerson progresses through our questionnaire

## 32 Chris Craig

Bruce Hepton trips the light fantastic with The Orb's visuals, man

# 35 Readership Survey

Now's your chance to tell us what you think of the magazine: the good, the bad – even the ugly...

## 36 Competition

Be kind to your bottom: fill in our readership survey and you could win a Peavey Spectrum Bass module

# 39 The A-Zof Analogue

This month, Elka Eminent to Everitt Orgatron. Peter Forrest

## **44 Peter Gabriel**

Phil Ward Xplores the Real World of CD-ROM and multimedia

## 53 Quality Control

Getting to the heart of the product. This month:
Lowrie Woolf Associates SeqWin v2 MultiMedia
PC sequencing/video software
Roland S760 sampling module
Roland P-55 piano module
E-mu Morpheus synth module
Trade iT DigiTape multitrack hard disk recorder
dbx 120XP subharmonic synthesiser
Short Cuts:

Active 75 desktop speakers Dance/Industrial II sample CD Charlie Morgan sample CD

## **9** 78 Dare!

Phil Ward gets judgemental with readers' demos

## 82 Stamp

Doing it to the letter

## • 83 That Was Then

More embarrassing photos from the vaults of techno history

### 86 Grief

Roll up! Roll up! All your problems solved here...

### 90 End Product

This month: Jam & Spoon, Sect, Jansen, Barbieri & Karn – plus MT's albums, videos and events of 1993...

## 93 The Warehouse

The bargains just keep on coming

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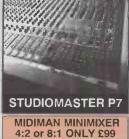
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NEW PRODUCTS



KRCS Group plc, the UK's biggest Apple authorised reseller with 1992 sales of £30 million, is to open a specialist music division in the New Year, with technical and software support provided by Oscar Music. To begin with, the division will focus on the education market, with which KCRS already have strong links. The KCRS/Oscar Music partnership have developed an education package aimed at both individual teachers and music departments, with a one–year telephone support hotline to be provided by Oscar Music.

The package will be based around a Mac LC or higher, with a 14" highres RGB monitor, minimum 80Mb hard drive, keyboard and mouse, and will also consist of a velocity-sensitive keyboard, an 'appropriate' sound module (probably GM/GS) and two software packages – Notator Logic for sequencing, and Clarisworks for general admin work.

Also included with the package will be a specially written introductory manual and Clarisworks templates aimed at music teachers: for instance a class list, an instrument database and a simple timetable. A Stylewriter II inkjet printer and powered monitors will be optional extras.

KCRS Music will be launched in January at the BETT '94 educational show, which is being sponsored this year by KCRS. Teachers attending the show will have an opportunity to win the above package by entering a prize draw.

KRCS will also be co-operating with the Gateway School of Recording and Music Technology to make Gateway's training initiatives available to their customers.

For more information, contact KCRS Music's Mike Mirrlees on 071 248 1525.

# Show Case I – in Canada

If you're an unsigned original performer, Music West are making you an offer you can hardly refuse. Every year, the Music West Fest Canada solicits submissions from developing artists in Canada as well as from around the world. The Festival features over 200 performers, providing an opportunity for new artists to meet and to showcase themselves in front of talent scouts and other influential industry professionals.

The 1994 Festival will take place from May 12-15 in conjunction with an international music conference and exhibition in Vancouver. British Columbia. To be eligible for a showcase position, you must be currently performing original material live. All submissions must accompanied by a completed Music West application form and a processing fee, and must be received at the Music West office before February 15th.

To request your application form, contact Scott Swan or Louise Watson on tel: 0101 604 684 9338, fax: 0101 604 684 9337.

# Analogue action (1)

Novation Electronic Music Systems, the UK company responsible for the popular MM10-X and Midicon controller keyboards, have entered the world of sound-generating modules with a new analogue bass synth, the Bass Station.

Housed in the same lightweight, compact casing as the MM10-X, the Bass Station features a 25-key velocity-sensitive keyboard with full-size keys, a monophonic dual-oscillator sound source, and a MIDI implementation which allows the keyboard to transmit polyphonically. Each of the two oscillators can be assigned a square, sawtooth or pulse waveform, with the width of the latter modulatable manually or from LFO or Envelope 2 sources. The two oscillators can be detuned against one another, while the second oscillator can be tuned +/-12 semitones for octave and other interval effects; you can also vary the volume balance of the two oscillators.

The single filter has a 5Hz-10kHz cutoff range, and a resonance control which can be set from zero to self-oscillation; additionally you have variable +/- control over Envelope 2 and LFO modulation depth. Envelope 1 and 2 ADSR controls let you set attack, decay and release times, together with velocity-sensitivity control.

The pitchbend wheel can be assigned a range from 0-12 semitones, while the controller wheel may be set to control LFO mod depth and/or filter cutoff frequency and to transmit MIDI modulation, volume or aftertouch data.

Eight user-programmable patches can be stored onboard the Bass Station, while patch and setup data can be transmitted and received via MIDI as SysEx dumps.

The Bass Station is set to retail at £299.99 Including VAT.
For more information contact Novation Electronic Music Systems Ltd at
The Ice House, Dean Street, Marlow, Bucks. SL7 3AB, tel: 0628
481992, fax: 0628 481835.

# Akai make new connections

In today's increasingly integrated hi–tech musical world, no machine, it seems, can be an island. With the recently released v2.0 and forthcoming v3.0 software (due first quarter of '94), Akai are ensuring that their DR4d hard disk–based recording system is well connected. With version 2.0 software loaded, the DR4d can synchronise to video or audio tape recorders which provide a SMPTE/EBU timecode source, locking in less than a second with the optional IB112T board fitted. Version 2.0 also improves control between multiple DR4d units, supporting the new DL4d remote controller.

Working in conjunction with several leading MIDI software companies, Akai will be adding MIDI Machine Control and MIDI Time Code capabilities to the DR4d, along with full remote MIDI SysEx editing. DR4d owners can also expect to see much faster remote sample editing for their machine, as Akai are currently working on a SCSI-B protocol to this end.

For more information, contact Akai Digital at Haslemere Heathrow Estate, Silver Jubilee Way, Parkway, Hounslow, Middlesex TQ4 6NQ, tel: 081 897 6388, fax: 081 759 8268.

### Endoftheline

If you've been thinking of buying a Roland JD-800 synth – you know, the digital one with all the knobs and sliders on it – then now might a good time to turn thought into action. Roland UK have received their final delivery of the instrument – and, they say, "we have it on good authority that Roland Japan will not be making anything like this again for the foreseeable future."

For more information, contact Roland (UK) Ltd at Atlantic Close, Swansea Enterprise Park, Swansea, West Glamorgan SA7 9FJ, tel: 0792 310247, fax: 0792 310248.

# **Professional DAT from HHB**

HHB Communications have now secured UK distribution rights for Panasonic's SV3700 professional DAT machine, following Panasonic



UK's decision not to continue importing it themselves.

The SV3700 is engineered to fully professional standards, featuring XLR analogue I/O with highperformance 1-bit A-D converters, switchable

44.1/48kHz sampling rates, AES/EBU digital I/O, a shuttle wheel and infra-red remote control

You can buy the SV3700 from HHB or the company's authorised dealers for £1399 excluding VAT.

For further information, contact HHB Communications Ltd, 73-75 Scrubs Lane, London NW10 6QU, tel: 081 960 2144, fax: 081 960 1160.

# CUBASE MIDI STUDIO

Steinberg have developed an optional software module for Cubase 3.0 on the ST which allows you to configure your entire MIDI setup at the press of a button

The StudioModule MIDI-studio Manager software adds four new windows to Cubase: Studio Setup, Memory Manager, Bank, and Macro Edit. The first of these windows allows you to define your setup, including all MIDI connections and MIDI patchbays, while the second provides library handling functions, with instrument-specific load, save, send and receive operations; you can choose between different file formats and append a comment to each file.

The Bank window allows you to view all the memory contents of your connected MIDI devices by name, and to send patch changes by clicking on relevant names; with the StudioModule software loaded, you can also select patches by name within Cubase's Arrange window. A General MIDI map is included with the software, making it easy to select sounds on any GM/GS module.

Finally, the Macro Edit window allows you to edit selected parameters on a number of MIDI devices using onscreen sliders; more than 80 device drivers are included as standard with StudioModule, and you can also create drivers of your own. Also included as part of the StudioModule package is CueTrax, a modular implementation of the Cubase Mastertrack.

Macintosh and PC versions of StudioModule are planned. StudioModule for the ST costs £159 including VAT.

For more information, contact UK distributors Harman Audio at Borehamwood Industrial Park, Rowley Lane, Borehamwood, Herts. WD6 5PZ, tel: 081 207 5050, fax: 081 207 4572.

set to provide a grand finale for Nottingham's NOW '93 arts festival (see Scanners, MT November '93), has been postponed until some time during Spring - NOW '94.

According to festival director David Metcalf, this was "to ensure that it fulfills its potential as a state-of-the-art multimedia piece." Apparently, the artists involved were being offered more leading-edge technology than they could get to grips with in the time originally available. Nice work if you can get it!

As soon as we get news of a rescheduled date we'll let you know.

More news has emerged concerning the new Yamaha synthesisers reported in last month's Scanners.

The company have developed two versions of their physical modelling software Virtual Acoustic Synthesis: S/VA (Self-oscillation type/Virtual Acoustic) and F/VA (Free-oscillation type/Virtual Acoustic). Each is optimised for a different form of acoustic sound generation S/VA is particularly suited to the timbral recreation of instruments which vibrate in response to continuous application of pressure eg saxophone and flute (wind pressure), violin and cello (bow pressure), F/VA, on the other hand, is best suited to recreating acoustic instruments which vibrate freely in response to a single trigger, eg. guitar, piano, bass, drums and percussion.

The VL1, due out early in the New Year, utilises S/VA synthesis, while to Yamaha, the sound source section of the VL1 consists of three elements. The instrument section generates the basic sound of a real instrument by producing a physical model of it. Then the modifier section 'flavours' this sound with the metallic sound of brass instrument being modelled). The performer controls the breath strength and mouth shape of wind instruments, or the pressure of a bow on the strings of string instruments, in real time via a controller and envelope

# 1 specification

- Keyboard: 49 keys with velocity and aftertouch
- Timbre configuration: one voice with two elements
- Maximum polyphony: two notes



- equaliser, dynamic filter
- Effects: modulation type (flanger, pitch change, distortion), feedback
- Internal memory: 128 voices (16 voices x 8 banks)
- External memory: 3.5" floppy disk drive (2HD/2DD)
- Controllers: master volume, continuous slider x 2, pitchbend wheel, modulation wheel x 2, rotary encoder, LCD contrast adjustment

  Display: 240 x 60-dot backlit LCD
- Onnection terminals: L/mono & R stereo outputs, headphones, foot
- Dimensions: 914mm (W) x 380mm (D) x 105mm (H)
- Weight: 12.5kg
- Accessories: BC2 breath controller, FC7 foot controller

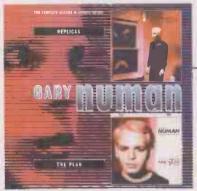
Retail price on the VL1 will be around £4000 (the DX1 of the new

The VP1 will have a 76-note dynamic keyboard, 16-voice polyphony and 4-element voices, and is expected to be even more expensive

According to Yamaha: "The VL1 and VP1 are synthesisers that will change the music scene of the future." Well, they would say that, wouldn't they? However, coming from the company which unleashed the DX7 on an unsuspecting world a decade ago, such a claim needs to be taken seriously - not least by other manufacturers.

For more information contact Yamaha-Kemble Music (UK) Ltd at Sherbourne Drive, Tilbrook, Milton Keynes MK7 8BL, tel: 0908 366700.





(Almost)

Numanoids have good reason to celebrate this festive season, as Beggars Banquet are releasing four specially packaged double-CDs featuring every recording made by the pale one between 1978 and 1983. Well, not quite every recording: the two live albums Living Ornaments '79 and Living Ornaments '80 will follow (for the first time ever on CD) in the New Year.

Each twin-pack includes a pair of albums plus assorted B-sides, rarities and some newly discovered gems, priced at an extremely generous £11.99. Tubeway Army is coupled with Dance, Replicas with The Plan, The Pleasure Principle with Warriors, and Telekon accompanies I, Assassin - all with requisite lyrics, sleeve notes and rare photos.

# oundscape

It's not often that you get something for nothing in this world, but now registered

users of Soundscape, the disk-based multitrack recording system from Soundscape Digital Technology (reviewed MT July '93) can do just that.

A software update free to existing owners, and included as standard for new purchasers, adds eight independent real-time parametric EQs to the system. These

can be applied to a single track or split across several tracks, and the EQ output can be recorded to a new track, freeing up the EQs for use on further tracks.

Also included in the free update is a new fader window which provides control over track volumes amd mute/solo status. Onscreen faders respond in real time to incoming MIDI controller messages, making mix automation possible when Soundscape is used in conjunction with a MIDI sequencer.

£200.

Coming in the New Year are further DSP functions such as reverb, delay, stereo compression and timestretch. This upgrade will be charged for, howevever; price £tba, expected to be around £100 to Parametric EQ2 Play Volume2 EQ curve track 1 2 3 3 1305 16000 4000 10000 Hs 4.13 2.00 2.00 2.00 Oct 12.0 4.9 ON ON NO 8 250 650 22000 Ha Take Directory (00:04:39:24 free) 1.00 1.00 1.00 2.00 Oct 11.4 -17.2 -20.0 -4.0 de 14.0 2.0 ON OFF

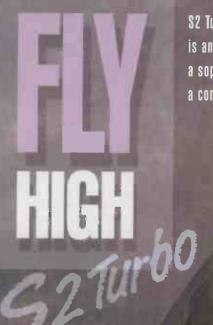
Tape Edit Settings Backup SDisk View Help

For more information contact Soundscape Digital Technology at 26 Castell Coch View, Tongwynlais, Cardiff CF4 7LA, tel/fax: 0222 811512

# ılar souno

Surround sound is getting a lot of attention these days due to the emerging technologies of home cinema, virtual reality and 3D computer games. New entrant into the (sound) field RSP Technologies will be using the Winter NAMM Show in America to demonstrate the 3D properties of their new Circle Sound system, which allows the listener to reposition voices, instruments and sound effects anywhere within a 360-degree audio circle.

For more information, contact Adam Hall, Unit 3, The Corwainers, Temple Farm Industrial Estate, Sutton Road, Southend-on-Sea, Essex SS2 5RU, tel: 0702 613922, fax: 0702 617168.



S2 Turbo Music Processor is an advanced synthesizer with an endless series of new sounds, a sophisticated keyboard - based recording studio, a complete MIDI master keyboard controller.

Polyphony - 32 notes max

Polyphonic Aftertouch
 16 Parts, 16 Splits, 16 Layers
 500 ROM Sounds + 1.500 programmable Sounds
 100 Performances
 2 MBytes RAM for loading new PCM Samples; built-in Version 2.0 of Sample Translator (reads
 Sample Libraries from various disk Formats, including Akai\* S1000 (HD formatted), Avalon, Sound Designer, Sample Vision and Wave)
 Sample Data Compression
 3 Sound Edit Modes
 32 Digital Filters, fully programmable

• 2 programmable Digital Effect Processors

16-Track Sequencer with 250.000 Event capacity (10 Songs), Background Song Loading, Microediting, Standard MIDI FIIe compatibility
 2 MIDI In, 2 MIDI Out, 2 MIDI Thru
 Static Memory Expansion (512 KBytes)

S2 Turbo Music Processor is available in a 76 - key version (S3Turbo) and in the rack version (S2R Music Processor)



Distributed by: Key Audio Systems Limited, Unit D, Chelford Court, 37 Robjohn's Road,
Chelmsford. Essex CM1 3AG Tel: 0245 344001 Fax: 0245 344002



# Micro-Rent go AV

Long-established Apple Macintosh authorised dealers Micro-Rent plc have formed an audio-visual division called Micro-Rent Music & Video. Already specialist dealers for Roland AVB (Audio Visual Broadcast) and Digidesign, the company are also adding audio equipment from other major distributors to their range – a move which they see as complementing the non-linear video-editing side of their business, which includes such systems as Radius' Videovision Studio and SuperMac's Digital Film.

Most of the products Micro-Rent carry are on permanent demo at the company's purpose-built suite, by appointment only.

For further information, contact Micro-Rent Music & Video at St Marks Studios, Chillingworth Road, London NW7 8QJ, tel: 071 700 3060, fax: 071 607 5102

# Analogue action (2)

Studio Electronics, the Californian company which specialises in MIDI/rackmount retrofits of classic analogue synths, have taken the logical next step and released their own analogue synthesiser, the monophonic SE1.

Based on the technology used in the company's MIDImoog/MIDImini and ObieRack synth modules, the 3U rackmount SE1 features three oscillators with a choice of sine, square and triangle waveforms, oscillator sync, a switchable 12dB (like Moog) and 24dB (like Oberheim) filter with resonance, four envelope generators and three LFOs, together with a 99 user-preset memory, a mono output and MIDI In, Out and Thru sockets.

Studio Electronics' new synth also provides extensive real-time MIDI control, transmitting front-panel changes from 25 rotary knobs in SysEx form via MIDI.

The SE1 retails at £1299 plus VAT.

For more information, contact UK distributors TSC at 9 Hatton Street, London NW8 8PR, tel: 071 258 3454, fax: 071 262 8215.

# The 5th rescue service?

InterManual Rescue, the company which aims to provide manual–less owners with the owners manuals they need, are now starting to supply service manuals and schematics for most analogue equipment. So if you fancy customising your kit å la Aphex Twin but you don't know what does what, send out a distress call to IMR.

SAEs should be sent to IMR at Unit 5, The Meadows, Worlington, Suffolk IP28 8SH, or you can tel: 0638 810155, fax: 0638 712702.

# Clubbing vinyl to death

# DIY CD ROM from Roland

Well, not quite DIY. But, as from January 1st '94, Roland will convert any user's existing library into a Roland-compatible CD-ROM for a modest cost – providing a whole new incentive for users to invest in a CD-ROM drive. And with drives now available for under £200, that investment needn't be too great.

Additionally, every purchaser of Roland's new S760 sampler will have free and unlimited access to the company's existing Professional CD-ROM sample archive; all you have to do is book time at their Fleet offices, then come along and copy as many samples as you want – or have disk space for.

Roland Japan have developed a new CD-ROM libary for the S760 called the Project Series, consisting of 10 CD-ROM discs available at an RRP of £110 each. Titles include World Music and Keyboards of the '70s and '80s Volumes 1 & 2 – the latter including samples of original analogue sources only available to Roland in Japan. All samples were recorded at 88.2kHz and then digitally converted down to 44.1kHz to maximise sound quality.

For more information, contact Roland (UK) Ltd at Atlantic Close, Swansea Enterprise Park, Swansea, West Glamorgan SA7 9FJ, tel: 0792 310247, fax: 0792 310248.

Although some DJs stilf cling resolutely to vinyl, CD usage is becoming more common in clubs and discos – and the race is on to establish the CD equivalent of the Technics SL1200 decks.

Denon Professional claim that, with 25,000 machines already installed worldwide, their DN-2000F Twin CD Player has become the world standard. Designed with the help of working DJs and intensively club-tested, the DN-2000F has been voted Best Club CD Player for 2 years in a row by Disco Club International magazine.

Now, in response to feedback from users, Denon are introducing a more advanced model, the DN-2700F, with many additional features – including twin 6-second, 16-bit sampling off CD for instant looping of beats, breaks or whatever takes your fancy.

Other features of the new twin player include a 100-CD digital memory which holds cue points, timing and end points for individual CDs; variable pitch with a choice of +/-4%, +/-8% and +/-50% ranges; a 0.01-second start time from any cue point or track location; twin multi-function jogwheels, with an inner wheel searching CD frames in 1/75th-second steps and an outer ring providing normal FF and Reverse functions; and Denon's proprietary audio circuitry with 18-bit DACs.

The DN-2000F is priced at £999.99 inc VAT, the DN-2700F at £1999.99 inc VAT. For more information, contact Hayden Laboratories Ltd at Chiltern Hill, Chalfont St Peter, Gerrards Cross, Bucks SL9 9UG, tel: 0753 888447, fax: 0753 880109.



AN ANEXICAN 5 AVOR THE
2 cups applesauce (made with tart spring apples, 4 or 5 required)
1 1/2 cups light brown sugar
tablespoon butter, melted
1 teaspoon lemon juice

1/2 teaspoon nutmeg



Peel and slice apples. Wash slices and put in a saucepan over moderate heat. Add about 1 1/2 cups brown sugar, more or less to suite taste. Cook until apples have come to pieces. Add butter, lemon juice, and nutmeg and blend well. Put in uncooked pie shell. Cover with pastry, thinly rolled. Prick with fork and press edges together with fork tines. Place in 350-degree oven and cook until crust is

## a

# ALEXANDER 109 CARTWRIGHT, JR. "Father of Modern Baseball" • Set bases 90 feet apart

Established 9 innings as game and 9 players as team
Organized the Knickerbocker Baseball Club of N.Y. in 1845

· Carried baseball to the Pacific coast and Hawaii in pioneer days



On June 19, 1846, the first match game of baseball was played on the Elysian Fields between the Knickerbockers and the New Yorks. It is generally conceded that until this time, the game of baseball was not seriously regarded.

In the world of sound reinforcement, there is nothing more American than the XR 680C from Peavey—not even mom and apple pie. Since its introduction in 1976, this versatile mixer/amplifier has become an American icon in the eyes of countless music makers. Combining the advantages of both state-of-the-art mixer and reliable amplifier, the XR 680C saves the user valuable time, space, and money. Now what could be more patriotic than that?

And what about features? In a word: unbeatable. Peavey's exclusive patented DDT™ (Distortion Detection Technique) compression circuit effectively increases the apparent headroom

available and minimizes distortion in the power amp. Massive heat sinks facilitate efficient convection cooling. Tape inputs and outputs afford the user recording and playback capabilities. All this and more—packaged in a durable, 3/4-inch plywood cabinet reinforced with Tolex® covering and metal corners to withstand the most demanding conditions.

Sorry, mom.



er



Massive Heat Sinks



9-band Graphic EQ

FEATURES: • 300 watt RMS amplifier • DDT compression • 8-channel mixing system • 9-band graphic equalizer • Phantom power (all channels) • Built in reverb • Pre monitor send • Complete patch panel • Tape output and tape input (RCA phono jacks) • Auxiliary Input • Available in flite case version CHANNEL FEATURES: • High Z input • Low Z balanced input • Active 3-band EQ

> \* Tolex is a registered trademark of Diversitech General Peavey Electronics (U.K.) Ltd • Hatton House • Hunters Road • Corby • Northants • NN17 1JE • England Tel: 0536 205520 • Fax: 0536 69029





New from Q TEK (UK) Ltd is the MM1 MIDI Multiport MIDI interface for Atari Falcon and ST computers. Providing eight individually

addressable MIDI ports or 128 'virtual' MIDI channels, the MM1 connects to the computer's printer port; you can then connect your printer to the computer via the interface.

Up to four MM1 units can be combined to offer 32 MIDI ports (512 virtual MIDI channels). MM1 software drivers are available for DVPI Session Partner,

Freestyle arranger software. MIDIshare Star Track and Steinberg Cubase, with other drivers currently in development. The MM1 retails for £220

including VAT. For more information contact Q TEK (UK) Ltd at 99 Douglas Street, Dundee DD1 5AT, tel: 0382 200808, fax: 0382 201111

# Sampling the good Time

Place an order with sample CD fiends Time + Space and you could end up with more than you bargained for. The company are giving away a copy of Samplemania, their new demo CD featuring an assortment of musical demos and samples, free with every order together with, while stocks last, a free copy of their Astroglide 202 sample CD. CD-ROM purchasers also get a free copy of the new Time + Space Showcase CD ROM. This offer is, say the company, limited to one free copy of each sample CD/CD-ROM per household. Time + Space are also extending their offer entitling purchasers of any four T+S sample CDs/CD-ROMs to another sample CD of their choice for free. In this instance the order placed must be not less than £175 total, and the free CD mustn't exceed £54.95 in value. Time + Space produce a 72-page colour catalogue, free on request, which features details on over 400 products. If you need further help in deciding which sample CD(s) to buy, the company have also compiled a booklet featuring reviews by the specialist music press on over 50 of their products - again, available free on request. For more information, contact Time + Space at PO Box 306, Berkhamsted, Herts HP4 3EP, tel: 0442 870681, fax: 0442 877266.

Blue Ribbon SoundWorks, the American software company behind leading Amiga sequencer Bars & Pipes Professional and Amiga style software SuperJAM!, have now ported the latter program over to the PC. SuperJAM! comes with over two dozen musical styles, "from Mozart to Motown, hip hop to bebop, rock 'n' roll to rap and soul" - all custom-designed by professional musicians. An expandable architecture allows you to add new Styles at any time, either by drawing on a library of six Blue Ribbon SoundWorks Style disks (Movie Soundtrack, Pop/Rock, Classical, Cutting Edge, World Music and Dance Mix - £25 each) or by creating your own Styles within the software using a variety of compositional Tools. You can create your own SuperJAM! band by interactively assigning your choice of instruments to the LOOK. LISTEN

Music software for sound minds!

drum, bass, strings, guitar, piano and solo players, and use the software's graphic mixing grid to adjust each band member's volume and pan position. Songs played in any Style by the software can be saved in Standard MIDI Files format for playback within other MPCcompatible music software. SuperJAM! works with any Windows 3.1-compatible soundcard or MIDI instrument. The program is priced at £89 including VAT.

For more information contact UK distributors Et Cetera Distribution at Unit 15, Hardman's Business Centre, Rawtenstall, Rossendale, Lancs BB4 6HH, tel: 0706 228039, fax: 0706 222989.

# Ensoniq with added wei



Latest workstation to emerge from the Ensonig stable is the TS-12 Performance/Composition Synthesiser, essentially a TS-10 with the KS32's 76-key weightedaction keyboard in place of the standard 61-key keyboard.

The TS-12 provides 600 Sounds and Presets plus the ability to load sampled sounds from disk or via an optional SCSI interface into 8Mb of onboard RAM; Ensoniq's newly developed SoundFinder feature lets you search for sounds by musical category.

The TS-12's onboard 24-track sequencer includes a TempoTrack feature which allows tempo changes to be added to a song. Effects processing on the new instrument is derived from the company's much-admired DP/4 Parallel Effects Processor, with 692 pre-programmed variations on 73 effects algorithms provided.

The TS-12 retails at £2199 including VAT. For more information contact distributors Sound Technology plc at Letchworth Point, Letchworth, Hertfordshire SG6 1ND, tel: 0462 480000, fax: 0462 480800.



KURZWEU K2000 £1899

£399 (B)

£479 (B)

£1499 (D) ..£1499 (D) ....£89 (D) ....£1499 (H) ....£299 (E) ....£469 (E) ...£2399 (E)

.£599 (E)

£399 (E)

£199 (E)

£829 (L) £1099 (M) £899 (M)

£249 (M

.£249 (M) .£549 (W) .£149 (W) .£849 (W) .£349 (W) .£499 (W) .£299 (W)

(W) e83.

.£139 (N) ..£149 (N) ..£199 (N) ...£99 (N) ...£69 (N) ..£125 (N) .£235 (N)

£699 (S)

£149 (S) £699 (S)

£649 (S

...£649 (S) ...£229 (S) ...£799 (S) ...£949 (K) ...£1249 (K) ...£949 (K)

£399 (K)

£149 (K)

£349 (H)

£249 (E)

£119 (E

£189 (E)

.£79 (M)

£139 (N

£99 (D)

**▼** SYNTHESIZERS

Ensoniq SQR Module..

Ensoniq ESQ1 (used).

Yamaha TG500 Module

Casio CZ101 (mini key - used)...

Casio CZ101 (mini key - used).
Ensonig KS32 Workstation.
Yamaha FB01 Module (used).
Korg 01/N Pro Workstation.
Yamaha TG100 Module.
Roland E35.
Korg 01/N Pro X Workstation (1 only).
Roland JV880 Module.

Yamaha Td500 Module.
Yamaha QY10 Music Station (used).
Roland JX3P (midi analogue - used).
Seil Monosynth (used).
Seil Monosynth (used).
Roland E70.
Korg T3EX Workstation (used).
Febracia SC1.

Roland D550 Module (used)

Roiand DS50 Module (used).
Korg Poly 61 (used).
Ensoning SQ1.
Yamaha TG55 (used).
Peavey DPMV3 Module.
Yamaha SY22 (used).
Yamaha SY35 (1 only).
Yamaha SY35 (1 only).
Yamaha SY35 (1 only).
Yamaha TX81Z FM Module (used).
Xamaha TX81Z FM Module (used).
Kawai K1R Rack Expander (used).
Casio CZ101 mlnl Key (used).
Casio CZ200S (preset - used).
Casio CZ300 (used).
Casio CZ3000 (used).
Korg 03RW Module.
Korg TZEX Workstation (used).

Korg T2EX Workstation (used)

Korg Poly 800 (used)

Korg Poly 800 (used)
Poland JX10 (big sounds - used).
Yamaha TG77 Module (used)...
Roland D110 Module (used)...
Roland D110 Module (used)...
Peavey DPM3...
Ersonig SG32...
Ersonig SG32...
Ersonig SG2...
Kawai PHM Module (used)...
Roland MT32 Module (used)...
E-MU Proteus 1XR Module...
Seil DK60 (used)...
Roland SH2000 Mono (classic!)...
Roland SH2000 Mono (classic!)...

Korg DSS1 + Library (used)...... Peavey DPMSP Sample Player

Roland EP3 Piano... Fatar Studio 49 (4 cot. master)... Roland AX1 Remote... Technics Piano... Yamaha YPR30 Piano... Cheetah MK7VA (master).... Roland AX1 Remote... Yamaha PSS505

Yamaha PSS595

Roland KR33 (used). Korg P3 Piano Module... Roland EP5 Piano... Roland PC150 Midi Keyboard.. Yamaha PSR80 (used)....

**▼** SAMPLERS

**▼** KEYBOARDS

X





	▼ RHYTHM MA	CHINES V
	Korg DDM110 (used)	£49 (D
	Korg KPR77 (used)	£59 (D
	Kawai R100 (used)	£89 (D
	Boss DR220E (electro)	£49 (D
	Roland TR505 (used)	£65 (D
	Roland R70	£449 (H
	Boss DR220A (acoustic)	£59 (H
	Roland R8 (used)	£249 (L
	E-MU Procussion	£575 (L
	Simmons MTX9 Expander (used)	£69 (L
	Korg DDM110 (used)	£49 (M
	Alesis HR16 (used)	£129 (N
Į	Korg DDD8 (used)	£139 (N
Ì	Yamaha DD10 (used)	£45 (N
	Roland TR606	£59 (N
	Yamaha RX21 (used)	£79 (N
ı	Yamaha RX8 (used)	£149 (S
Į	Yamaha DT10 Drum Triggers	£15 each (S
ı	Yamaha RX11 (used)	£99 (S
ı		

### **▼** EFFECTS PROCESSORS **▼**

	T LITECIST NOCESSONS	
	Ibanez DM1000 Delay (used)£59	9 (B)
	Boss EH50E Enhancer£49	9 (B)
i	Vestafire Parametric EQ£69	9 (B)
ı	Digitech Stereo Graphic£19	9 (H)
ı	Korg A5 (used) £13	9 (H)
1	BBE 411 Sonic Maximiser (used)£129	(E)
	Boss CS3 Super Chorus Pedal£65	5 (E)
	AMR AEQ2800£199	(E)
ı	Rocktek Compressor£29	(E)
	Peavey EQ31 Graphic Equaliser£239	) (E)
	Pr Yamaha NS10M Monitors£299	) (E)
	Yamaha EMP700 £299	(M)
ı	Valley Microbooster£15	5 (M)
	Vailey Attenuator£15	(M)
	Peavey Ultraverb£215	
	Aphex Type C Aural Exciter (used)£159	(W)
	Akai ME100 MidiDelay (used)£19	
	Drawmer DF320 Noise Filter£425	
	Yamaha GEP50 (used)£195	
	Art Multiverb LTX (used)£145	
	Alesis Quadraverb GT (used)£279	
	Roland DEP5 (used) £215	
	Peavey Autograph£289	
	Peavey Multifex. £699	
	Behringer Multi Band Denoiser£299	
	Behringer Dualfex (used)£139	(S)

### **▼ SEQUENCERS ▼**

Roland MC50mk2	£589 (B)
Korg SQD1 (used)	£109 (D)
Casio SZ1 (used)	£55 (E)
Yamaha QX21 (used)	£49 (M)
Roland CSQ100 Analogue (used)	£59 (N)
Yamaha QX5 Sequencer (used)	£159 (N)
Cheetah MD8	£99 (N)
Yamaha QX7 (used)	£89 (S)

KEY:
(B) Birmingham (D) Derby (H) Hemel (E) Leeds
(L) Leicester (M) Mansfield (W) Norwich (N) Nottingham
(S) Sheffleld (K) Stoke on Trent

## Studiomaster Proline 16-8-16 Gold with MIDI Mute 3 OM V . WAS £1299

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have been on demo

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the last 6 months.

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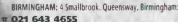
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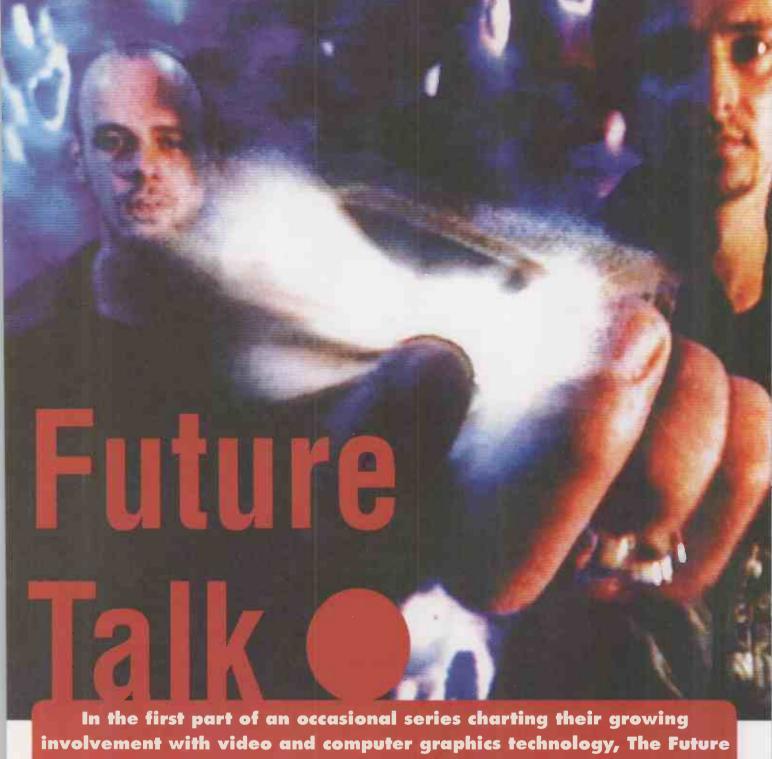
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Sound Of London tell Simon Trask why they're going audio-visual...

hen MT last interviewed Garry Cobain and Brian Dougans aka The Future Sound Of London (MT August '92), they spoke of their intention to install a video edit suite in their studio, proclaiming "Our images should be as sophisticated as our music.'

Some 18 months later and the racks of hitech musical gear in the now enlarged Earthbeat studio are augmented by a Sony Betacam edit suite, courtesy of the group's publishers Sony Music. But this is not some recent conversion to the audio-visual faith. In fact, Brian and Garry's involvement in audiovisual work dates back to the mid '80s and a

chance meeting with Mark Maclean and Colin Scott - aka video artists Stakker - at the Hacienda club in Manchester.

"They needed a soundtrack for an ident commission from MTV, so we put that together for them," recalls Brian. This led to a commission for a 30-minute audio-visual piece, Ultratech, for which Brian and Garry once again provided the music.

"Stakker had managed to hire a Fairlight CVI (Computer Video Instrument) from Fairlight for unlimited time," explains Garry. "That selfindulgence was quite nice, being able to create at our own pace. There were these glorious editing sessions through the night, when the Fairlight was brought in and we'd be editing the music on quarter-inch tape, back and forth with the visuals. Then there were flights down to facility houses in London to put it all together."

Then in '88 Brian and Garry, together with Stakker, decided to approach some record companies with a view to getting an audio-visual recording deal. The companies they saw had other ideas, however...

"It was... Yeah, we quite like the music, but we can do without paying for the visuals" recalls Garry. "People don't even want to do that nowadays, although the climate is so much more conducive than it was in '88. We were



## The Future Sound Of London INTERVIEW

However, the audio-visual pairing did manage to produce two more works, Eurotechno for Medialab and The Evil Acid Baron for Rhythm King, before splitting up.

Subsequently, according to Garry, Stakker video material has cropped up in all manner of situations through a series of sub-licensing deals. "A lot of people are pulling in those visuals; I've seen them in the most bizarre places." Including, recently, a video wall display in Debenhams in Oxford Street! "There's money exchanging hands somewhere, but not to us," Garry adds. "We had a very loose,

cavalier business attitude back at that time." "We were also stitched up by the record company," recalls Brian. "We were totally naive - to business, to music, to the whole thing. It swamped

owadays, they place much value on taking care of the business side. "It's about a clarity of communication," says Garry. "To achieve that clarity of communication you have to gain control of as much as you can about the way you put out

records - and that, unfortunately, is business. So you have to be completely attuned to it."

Following their salutary experience with 'Humanoid', Brian and Garry found themselves in a period of limbo. It was during this time that they signed to a small independent - Jumpin' & Pumpin' - and began releasing 12"s under a variety of names, including Smart Systems,

> Yage, Mental Cube and, of course, The Future Sound Of London, Garry refers to this as a "fruition period".

> Then came the unexpected chart success of 'Papua New Guinea' and the follow-up album Accelerator in '92, both recorded under the FSOL name. Subsequently, Brian and Garry signed to Virgin Records as The Future Sound Of London,

and also formed their own label, EBV, to release material under other names - the 1993 Amorphous Androgynous album Tales of Ephidrina being their first release.

Now, with former Stakker cohort Mark Maclean - aka Buggy G Riphead - back in the fold, Future Sound have embarked on a new phase as audio-visual artists - beginning with the video they made to accompany the recent FSOL single, 'Cascade', put together in a high-end London facilities house before they acquired their edit suite.

Always questioning the merits of

### Future sound

Accessit: RIAA amp

Akai: S900, S1000, S1100, S1100EX

samplers

Alesis: ADAT digital multitrack (x2), BRC remote controller, Al-2 audio/video synchroniser, MIDIverb II (x2), Quadraverb (x2)

Apple: Quadra 950 computer

Atari: 1040ST computer running Emagic

Creator sequencing software Audio Logic: 20001 digital sampler



BBE: Sonic Maximiser 422A

bel: BD-80 digital delay

Digidesign: ProTools disk-based recording

system (4-track version) Drawmer: DS201 Dual Gate

E-mu Systems: Proteus/1 XR module,

Vintage Keys module EMS: Synthi AKS synth

Fostex: Model 3070 compressor/limiter

Ibanez: DM1100 digital delay

Jen: SX1000 synth

Korg: DRV-1000 digital reverb, Wavestation

A/D synth module LA Audio: MIDI gate

Oberheim: Matrix 1000 synth module, OB8

OSC: Oscar monosynth

Roland: D110 module, JX3P synth, MKS50 module, SH101 monosynth, TB303 bass synth,

TR909 drum machine Tascam: 103 cassette deck

Sony: CDP-770 CD player, DTC-1000ES DAT

machine

Soundtracs: IL3632 36-input mixing desk

Tannoy: Little Gold monitors

Technics: SL1210 Mk2 record deck

Urei: monitors

Yamaha: DS55 synth, NS10M monitors, Q2031 graphic EQ, SPX90 multi-FX unit,

TX81Z synth module



"The next revolution will be sound studios getting video gear and doing the whole thing themselves"

asking for 50K, 70K; it cost a lot of money to put together the sort of stuff we were doing."

In the event, the company they signed with, Westside Records, signed the music but not the visuals, and 'Humanoid' by Stakker came out on 12". Or was it 'Stakker Humanoid' by Humanoid? Or 'Humanoid' by Stakker Humanoid? According to Brian, at various stages it was all these things - a reflection of the confusion and ego problems which eventually led to a parting of the ways with Stakker.

"They had their own ideas, we had ours," recalls Brian. "Stakker didn't want to become this pop promo-making outfit," Garry adds. "Their idea was for one-off artworks, galleries."

what they produce, Brian and Garry are typically self-critical when it comes to discussing their own video... "It's a luscious piece of work, and technically it's genius, but I think with the expense of using all that computer stuff the content suffered."

"Yeah, I think we've got quite a soulless video," Garry concurs. "I think that's one of the problems of using too much 3D-manipulated work. We had a certain budget, and a lot of that budget went on generating imagery that in its present form is not at its most potent. In retrospect I wish that we'd spent a week filming

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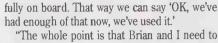
Yamaha QY10.

very good footage, chromakeyed and otherwise, rather than spending so much time in computer time. I think the context in which that technology is used needs to be looked at.

"The idea with having the edit suite is to have the stuff which enables us to go a certain way. but keep facilities houses online to do the more cutting-edge stuff. I don't intend to spend £200,000 on a bit of cutting-edge technology; I'd rather use somebody else's and then move on. I suppose what I'm saying is that I'd like to keep the cutting-edge aspect of what we do in context, and not have to commit to having it

### Future vision

BKE-9500 Editing Control Disk Unit Edit Desk PCM-7050 Digital Audio Recorder PVW-2650P Betacam SP Videocassette Plaver PVW-2800P Betacam SP Videocassette Recorder Monitors (x4)



be completely self-indulgent in terms of our working practice. That's the way we've prospered with music, so that's the way we're going to prosper with video - and that's also why the whole film industry will be given a kick up the arse. The next revolution will be sound studios getting video gear and doing the whole thing themselves. It will lead to a completely new form of product, and a spate of products that I don't think anybody can fully imagine at the moment.

■ MT will be reporting exclusively on FSoL's progress as self-sufficient audio-visual artists in future issues.

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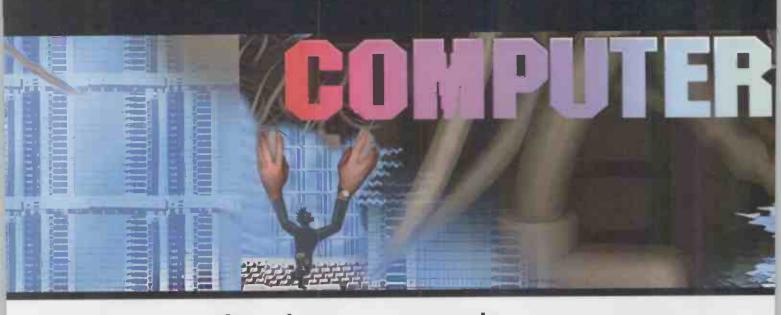
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# Don't you just love being in control? Well, it seems that hi-tech musicians do and these days spend by far the greatest proportion of their time behind computer terminals which offer a degree of control that would have been hard to imagine just a few years ago.

But for many, the process of buying a computer - either for the first time, or as a replacement for an existing machine - is fraught with difficulties, incomprehensible jargon and unhelpful, partisan attitudes.

Spending money is easy. Spending money wisely isn't - especially if you're looking for a computer which will not only serve your needsas a musician, but will also permit entry either now or at a later stage - into other areas,

# lan Waugh

particularly the world of multimedia production.

Whilst diplomacy prevents me from coming right out and saying the best computer for music and multimedia is the Apple Mac, what I will say is that no other computer has as good a user interface or as good a range of music and graphic software - or the power to put it all

The two latest Macs are aimed squarely at

the multimedia market. They're the Quadra 840AV (around £3400 with 8Mb RAM, a 500Mb hard disk and CD drive) and the Centris 660AV (around £2100 with 8Mb RAM, a 230Mb hard disk and a CD drive). Apple has dropped its RRP pricing policy in favour of SRPs (suggested retail price) so any dealer worth their salt is knocking a few hundred quid off.

It's interesting to note that the US price of the 660AV, for example, is \$2799 (around £1950) so although the UK consumer is getting tucked up yet again, it isn't by as much as

Both AV models have many options built in which would be expensive extras on any other machine. The 840AV is the fastest Mac so far produced. Both models have video In and Out sockets and can record QuickTime movies from a camcorder. They can also send the Mac's screen image to a video recorder or TV and record and playback audio. A voice recognition system is also included, and they can send faxes and serve as telephone answering machines (Teasmade facilities are not, as yet, included...).

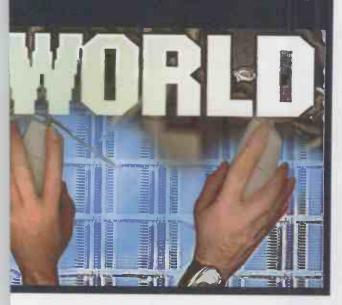
If you can't run to one of these, there's the Quadra 650 at £1550, the Quadra 610 at £1160, the LC 475 at £940 and the LC III at £690 although personally I'd opt to go more upmarket than the LC III, especially if you want to work with graphics now or in the future. Prices, of course, are guaranteed to change by the time vou read this.

Interestingly, Apple are currently standardising on the 68040 processor and although a 68030 machine will still run 99.9% of Mac software, the time may come when it

The main drawback to buying any Mac is Apple's marketing strategy, which guarantees a price cut within six months of its release. In fact, the two AV models had their US launch prices reduced before they even made it to the market!

Many people associate Macs with high prices and this has been true until recently. Apple basically chewed off their own feet by maintaining inflated prices and thus encouraging an elitist image of their products which commanded only a small market share. With a modicum of marketing sense the





company could have made some deep incisions into the body of the PC. Ah well...

Some people still think Mac prices are still too high, but at least they run a native operating system – unlike Windows on a PC – so you don't need the mega power of a PC to run

The Compaq 433i system

applications. And the Mac front end is far superior.

As with most other things in life, if you want performance and ease of use, you've got to pay for it. In spite of everything, a Mac would certainly be my first recommendation as a computer for both music and multimedia applications.

P Cs give you the most computing power for the price. But when you run an application in Windows and on top of DOS you'll find you need all the power you can get! As there are more PCs by far in the world than all the other computers put together, prices are keen and software is plentiful.

Although you can pick up a reasonably powerful 386 (the PCs are named after the processor which controls them) for about £700-£800, I'd strongly urge anyone to pay a bit more and get a 486. It's currently the most up-to-date and future-proof PC and we are starting to see some software packages which really don't perform well on a 386, again due to the massive amounts of processing power required to a program on the straight and narrow.

There must be well over 100 companies cobbling together PCs, and trying to decide which machine to buy isn't easy. Even though several systems may

have similar specs, the only way to compare them is to run comparative tests. Of course, only computer magazines have the wherewithal to get hold of the machines and do this, so they are your best source of information.

In fact, if you finish this article remembering

only one piece of information, let it be this - you *must* do your homework or get independent expert advice (that is, not from a dealer or high street store) before buying a PC.

486 prices range from £1000 upwards, though you could expect to pay around £1500-£1600 for a powerful top-end machine. Many now have the ability to be upgraded to the Pentium chip (the so-called 586), but while it's always useful to keep your options open, I personally wouldn't pay too much simply for the ability to upgrade.

PCs still have to catch up to the Mac in terms of graphics and multimedia integration, but it won't be long before they do. There are already more budget sound cards than you can wave a MIDI lead at as well as several pro digital recording systems

plus video cards and a goodly range of graphics software. Microsoft is about to release the second version of Video for Windows.

When everything's working, PCs are fine but configuring the things, plugging cards into them (sound and video), setting up the system in the first place and even doing general housekeeping tasks is a pig. Make no mistake. I reckon well over 50% of home PC users are not running their computers to their maximum potential.

Still, it seems PCs may yet take over the world; certainly, they are the most future-proof computer system currently around. Although there is the PowerPC to come (see box out).

The Amiga is probably not the first computer

# The musician and the computer

OK, so you're not into multimedia and want a computer simply to make music. What should you look at?

By virtue of its built-in MIDI interface, the Atari ST became the UK's most popular music computer. And it's still a good choice – it's cheap and it has the widest range of music software of any computer – particularly in ancillary areas such as editors, librarians, composition programs and so on.

But as its popularity continues (alas) to wane, software developers are turning their attention to other computers, so the program you buy now is unlikely to be updated. You are, therefore, buying into a virtually closed system and this needs to be balanced against the money you're saving. Nevertheless, a vast number of musicians continue to make music with an ST and Cubase or Notator.

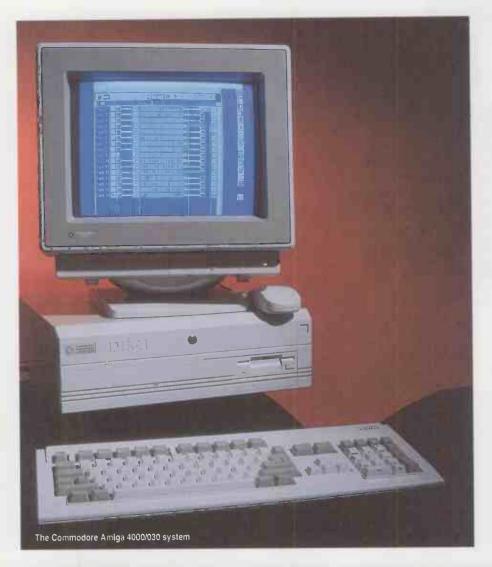
If you want to get into direct-to-disk recording, Atari's Falcon looks appealing, although serious direct-to-disk software has yet to appear and be tested (...but look out for Cubase Audio). Remember, too, that many ST music programs will not run on the Falcon and not many software developers appear to want to update them to do so.

The Mac has an excellent range of sequencer programs at both pro and budget levels including Cubase, Notator Logic, MasterTracks Pro and Vision. There isn't too much in the way of synth editors and librarians but there are a handful of decent sample editors such as Sound Designer and Alchemy. Mac's are particularly suited to direct-to-disk recording applications, too – although you'll need extra hardware for this – check out Cubase Audio, Session 8 and StudioVision.

As far as the PC is concerned, sequencing software is plentiful and is available to suit most pockets, though it can't really be said to fall into the professional category. At the high end there's Cubase (not without its problems on the PC) and a little further down MasterTracks Pro and Cakewalk. Segwin is also starting to make a name for itself (see review in this issue) and there's also Cadenza with it built-in SysEx librarian. Note that some Windows music software requires a fairly high-end 486 in order to maintain timing integrity. Of course you could opt for a DOSbased sequencer such as Voyetra which has withstood the test of time and is still, I believe, being used by Stevie Wonder.

Like the Mac, PC synth editors and librarians are rather thin on the ground but there are now some excellent direct-to-disk systems running under Windows which you should be able to use concurrently with a sequencer.

As regards the Amiga and the Archimedes... well, let's just say I can't imagine anyone buying one of these computers specifically for musical purposes, but if you happen to own one already, check out Bars & Pipes (Amiga) and Rapsody and Serenade (Archimedes) if you're in need of a sequencing package.



### More Power to the PC

No overview of the current computer market would be complete without mention of the Power PC. A new joint development by Apple, IBM and Motorola, the Power PC promises vastly increased speed and power – well in excess of even high-end Mac Quadra'sThe interesting thing is, it will run both Mac and PC software and, if it's done right, could well prove to be the computing platform of the future.

As of writing, hard details are difficult to come by although the machine is due to start shipping in early 1994. In next month's MT we'll be featuring an update containing all the latest PowerPC info. For now, suffice it to say the promise of the PowerPC is too good to ignore; unless you need a computer now, I'd strongly advise you to wait until more information is available. If you must have a new machine immediately, remember that a number of machines in the Mac range have a PowerPC upgrade path.

➤ you'd think of where music is concerned. It has none of the industry-standard sequencers although Dr T has a range of often numeric music software and there is the rather desirable Bars & Pipes Professional (a review coming up in *MT* soon). Though Amiga CD-ROMs haven't really caught on, the computer does at least have one direct-to-disk recording system.

Where the Amiga really scores is as one of the major forces in the graphics and animation industry. It's a popular genlocking machine and can lay claim, amongst other things, to being

# • • • JARGON BUSTER

- User-interface: The point at which the computer and user get together. In the case of a synth this is the buttons, sliders and keys. In the case of a computer it's the keyboard, the mouse and what you see on screen. Some user-interfaces are easier to use than others. See DOS, Windows and GUI.
- Operating system: The part of a computer's software which takes care of the basic day-to-day jobs such as handling files, keeping the monitor display uptodate and generally making sure that all aspects of the system work well together

Some operating systems are built into ROM, others are loaded when you switch the computer on. Typical operating systems include Atari's GEM (Graphic Environment Manager), MS-DOS (Microsoft Disk Operating System) used with PCs, and Apple's System 7 which is used with Macs.

- DOS: Disk Operating System. This is the basic PC operating system which not only takes care of disk handling but all other aspects of computer use, too. The most popular is MS-DOS but there are alternatives such as DR-DOS though all perform the same essential functions. DOS is essentially a CLI (see GUI) which is not the most user-friendly interface (see User-interface) so alternatives such as Windows have appeared (see Windows).
- Windows: This is the most popular graphic front end for PCs. Instead of having to type commands laboriously into a PC at the DOS CLI, Windows lets you control the computer with a mouse

by clicking on icons (small pictures) and dragging them around the screen. It's widely acknowledged as being far easier for beginners to learn and virtually all experienced users are now migrating towards Windows too

Windows, too.

However, Windows runs on top of DOS and when you use an application within Windows you need a lot of processing power to cut through the 'sludge' from the computer's CPU up to the application. A 386 will do the job, sometimes hesitantly, but a 486 is much better (see 386/486 Processors).

- GUI: Graphical User Interface (pronounced 'gooey'). The standard term used to describe a graphical approach to the way a computer interacts with the user. A GUI uses icons (small pictures) of items such as programs and files, and you can control the system by pointing to items with a mouse. It's a far easier system to use than a CLI − Command Line Interface − with which all instructions have to be laboriously − and accurately! − typed in.
- RAM: A very unhelpful acronym standing for Random Access Memory. Its derivation dates back to the origin of computers and if it wasn't already lost in the annals of time would be better forgotten about. It refers to the area of memory in a computer which is used for running software (such as sequencers, wordprocessors and games) and storing data (such as songs, documents and high scores). You can both write data to RAM and read data from it (see also ROM), but it's volatile so when you switch off the computer, all data in RAM is lost. This is why you should save your work to disk regularly.

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### ME80P

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The ME35T is the industry standard audio to MIDI trigger! The original design has proved its worth to thousands of musicians. 8 audio inputs allow you to connect pads, triggers, microphones or any audio source and convert to MIDI. The MIDI IN socket allows merging of keyboard input to make the most of your modules. Fast but delightfully easy to use, the ME35T will let you have plenty of control.



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### Multimedia and the computer

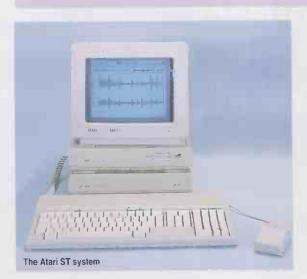
Multimedia – what is it? In its present form multimedia combines music, video, still pictures and, perhaps, text into a single medium: the computer program. Throw in a dash of interaction and you have in your hands the future of entertainment and information technology.

And it hasn't come a moment too soon: the record /CD/cassette/Minidisc market has shrunk rapidly in recent years as more and more of the nation's teenagers squander their pocket money on computer games and videos rather than music. Clearly, if music is to excite people rather than simply act as background noise, it has to compete with the many other forms of entertainment that digital technology has brought within reach.

All this may seem a long way off and currently beyond the grasp of your

average muso starving in a garret and sending demos to acne-faced A&R boys with a Porsche and an expense account. Not so. The technology now exists through which we can create audio/video productions in the comfort of our own basement flats without it costing an arm or a leg – or the sum total of next year's giros. One only need look at the exploits of someone like David James (MT December '93) to see what's possible with only modest equipment.

The main pre-requisite for any combined audio-visual production is, of course, a computer. And the computer industry hasn't been slow in latching on to multimedia as a way of marketing new machines. Though this has primarily been in connection with business presentations and home entertainment, there can be no doubt that more and more musicians will soon be releasing their own computer-based audio/visual productions. Peter Gabriel's example (see page 44) will be followed in a thousand different ways.



the computer used to generate the piccies for *Catchphrase* along with many other TV programmes.

To emulate this, however, you'll need a bit more than an Amiga 500; look at the 4000/030 (£1199.99) or the 4000/040 (£2099.99) which

come with a built-in 120Mb hard drive (not particularly large for multimedia use), but without a monitor which will set you back another £300-400 for a decent model.

The 4000s really are rather tasty multimedia machines capable of displaying 256,000 on-screen colours from a palette of 16.8 million. There is a wealth of graphics, video and animation software available and to say they are capable of generating impressive productions is like saying Spielberg makes canny movies

If you can't run to a 4000, there's the Amiga 1200 at £349.99 (monitor

and hard drive extra) which has the same colour display capabilities. It currently comes bundled with several programs including games and paint software, but you may need a few upgrades to do any serious multimedia stuff.

A tayear old, Atari's Falcon is still relatively new. Although based on the musician's favourite computer, the ST, it is altogether a heavier piece of kit with the ability to display 65,536 colours at once and with a dedicated DSP (Digital Signal Processor) chip which can process data in real time very quickly. Already four direct-to-disk recording programs have appeared using the DSP which require no additional hardware – making the Falcon very attractive for musos on a budget.

It has audio, video, SCSI II plus a variety of other connection sockets allowing it, for example, to accept external video sync for genlocking. It doesn't yet have a standard for CD-ROM support although it is capable of multitasking, and there are already several alternatives to Atari's own multitasking operating system, MultiTOS.

The Falcon to go for is the one with 4Mb of RAM and a 210Mb hard drive (£999, monitor extra). The basic machine has 1Mb of RAM and no hard drive (£499), but you'll need more than this for most serious work. It's worth remembering, too, that many ST music

## QOOJARGON BUSTER gontinued

- ROM: A more sensible acronym standing for Read Only Memory. It's a type of memory which contains fixed data put there by the manufacturer. You can read it but you can't write to it or alter it in any way. In computers it is used to store essential information about how the computer works. It has been adopted by CD ROMs to indicate a medium which can be read from but not written to.
- Multitasking: Strictly, the ability to perform more than one task at the same time such as playing music and sending a file to a printer. Many systems which claim to be multitasking actually use a system called 'time slicing' during which the processor shares its time between each application. It's a little like the man in the circus who keeps lots of plates spinning on poles by running from one to the other and giving each a spin. The Commodore Amiga is a true multitasking machine.
- 68030/040 processors: The 68030 and 68040, often abbreviated to 030 and 040, are types of microprocessor chips produced by Motorola the 040 being the more powerful. They are used in Apple Macs and form the heart of the computer, handling all the essential computing processes. They are colloquially known as CPUs or Central Processing Units.
- 386/486 processors: More CPU chips, this time part of the 80x86 family 80386 and 80486 used in PCs. Intel designed them, but as you can't copyright a number the company couldn't protect them so other companies have cloned them. Hence the term 'Intel Inside' which you'll see

- stuck on some PCs, and why Intel has given the 586 chip a name the Pentium.
- Hard disk: Similar in principle to the humble floppy disk but containing several hard (hence the name) metal platters which allow greater storage capacity and faster data transfer. It's rare to find a PC or Mac hard disk with a capacity less than 40Mb and the current trend is towards disks with a capacity of 200Mb or more. Direct-to-disk recording requires large hard disks capable of fast data transfer speeds.
- CD-ROM: A CD player connected to a computer which can read not only audio CDs but also CDs containing graphics images and computer programs. (See CD-ROM feature in November '93 MT).
- Multimedia: Hip, cool-to-the-groove buzz word meaning, simply, the use several types of media in one presentation such as graphics, video clips, text and sound.
- Video CD: A 12" CD usually used to store computer movies. Currently they have a maximum running time of around 90 minutes.
- QuickTime: A piece of Mac software which can show movies in a small window on the Mac screen.
- Video for Windows: Similar to QuickTime but for Windows on the PC.

programs won't run on the Falcon and not all are being updated to do so.

Dedicated Falcon software is starting to appear slowly but surely, though this is restricted to music programs at present. The Falcon's multimedia potential is there but has yet to be fully realised. If, however, you want to control external devices such as video players and the like, the Falcon has the sockets.

Having mentioned the Falcon, we can't really ignore the good ol' Atari ST. This is still the most popular music computer in use in the UK, a job it does well and very cheaply, despite looking its age alongside the current generation of machines. Certainly, if you already have an ST there's no reason why you can't use it to run your sequencer and sync it to another computer which would handle the graphics. Current prices are around £200 for a 1040STE.

The final computer on our list is the Acorn Archimedes. An excellent machine, it has been done no service at all by Acorn's marketing strategy which effectively limits its area of interest to education. It's a powerful computer with an excellent GUI – well able to handle graphics, video, sound and CD-ROM. Photo CD software is currently being developed.

Archimedes computers include the A3010 at around £400 but for any sort of serious work you need to look at the A4000/5000 which

### **MIDI** interfaces

In order to connect your keyboard and synth modules to your computer, you have to equip it with a MIDI interface – unless you have an ST or a Falcon which both have MIDI interfaces built in. It really does make you wonder why no other computer manufacturer thought to do the same. Even Apple's new AV models neglect the magic 5-pin sockets.

Basic MIDI interfaces are available for the Mac, PC and Amiga. Prices range from around £20 (for the Amiga) and £70-80 (for the Mac and the PC) upwards.

Some interfaces have more than one MIDI Out. These may simply be two sockets sharing the same output signal which makes it easy to plug two units into the signal path. Alternatively, they may be separate or individual Outs which will provide you with an additional set of MIDI channels. For this to work, however, the software must support the individual Outs on the interface.

The Mac again scores here as you can connect a MIDI interface to the Printer or Modem port – or both – and most software, even budget stuff, lets you assign a track to either output.

Incidentally, ST users can buy a special MIDI interface (about £30) which plugs into the modem port and provides access to another 16 MIDI channels. But again, the software must be capable of using this.

You can buy more sophisticated interfaces which support both MIDI sync and SMPTE and there are special interfaces with these features for the ST, too.

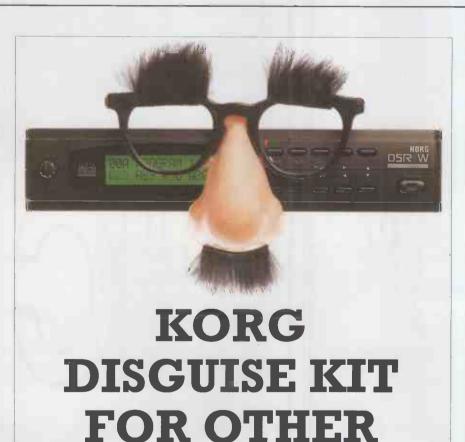
When buying a PC interface the magic words to look for are MPU-401 compatible – although most interfaces are. If you run under Windows a special interface may need a special Windows driver, although this should be supplied with the interface. Most PC MIDI interfaces come on plug-in cards which you have to fit inside your computer, but external ones are also available which plug into one of the external ports.

With the internal variety you may have to make some technical adjustments to settings such as the IRQ (the Interrupt ReQuest, which is how the PC knows there are things plugged into it). This can be a bit hairy if the setting up instructions aren't detailed enough or assume a degree of competence with PC internals, which is often the case.

range from about £1100 upwards.

Arc software includes a range of graphics, 3D drawing and video programs plus a growing number of CD-ROMs. The range of MIDI

sequencers is small and most are aimed at the home and educational user rather than the pro, and unfortunately there are no real multimedia packages – not as yet.



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This collection features it is sounds created especially by Vince using the mountain of classic analogue synths in his Amsterdam Studio. A founder member of Depeche Modification, The Assembley, and now Masure will better to produce the OLTIMATE ALCOU. SAMPLE CO? Synths featured include Rollind System 102, System 700, ARP 2600, Moogle SCI Pro One, Kerg Poly Fusion, VCS3, Serge, Obie, Mander, and mote. It features hundreds of constantly evolving the sequences of constantly evolving the seq

there's connection of multisamples along with many samples from Erasure's last Thantasmas and Usua Tour Perhaps one of the most unique features of this CD are the drum loops where has created using only eyes etic analogue sounds, all the loops are broken down for ultimate flexibility so you can easily create your own custom toops using these unique sounds. Just about the regreed he's ever done has been a hit, and this is no exception

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# State of Independents

# Swim Records

# Learning to swim

Desktop publishing, desktop video, desktop music – and the desktop record company? Swim Records explain to Simon Trask why they've taken the plunge...

o you've got your home studio, you've recorded an album's worth of material that you're happy with and you want to release it. Time to start doing the rounds of the records companies or is it? You built up your studio because you wanted control over the recording process, so why relinquish control over the finished product?

For Colin Newman and wife Malka Spigel, the decision to set up their own label was taken after they'd moved from Brussels to London in 1992. Both had past involvement in the music industry, Colin with Mute recording artists Wire and Malka as part of Israeli/Dutch group Minimal Compact. Colin had been working with sequencers since 1987, when he'd discovered Steinberg's Pro24 software, and the pair had built up their own studio over the years. Using money gained from the move to London, they invested in a

Swim releases

Malka Spigel: Rosh Ballata (WM1)
Oracle: Tree (WM2)
Colin Newman album (WM3 – due early '94)

Planned: Oracle remix 12", Universal Law (abstract techno and cookery!), collaboration with Benjamin Lew.

new mixing desk and some soundproofing, and developed a home studio which would allow them to produce music of masterable quality.

"When we came to Britain we'd already thought up the name Swim, and the idea was to be a production company," explains Colin. "We evolved into a record company partly because Daniel Miller at Mute reckoned it would be a good idea. I'd asked him if he'd be interested in us working as a production company, and he said we'd make much less money that way, that we'd do much better if we took the step of becoming a record company."

As Malka points out, for musicians used to being signed to a label, taking that step necessitates a change of attitude.

"You can get very attached to the feeling that there's someone there who will take care of you," she says. "As a musician, who wants to bother with money and publishing and all those headaches. You don't want to understand what it all means. To begin with it was more Colin who wanted to be in control and have his own record company; I wasn't sure, I just wanted to deal with the music. It took me a while to get over that and to want to do something for myself. But I'm wary of the business side taking over."

By the time they arrived in Britain they already had most of the material for an album from Malka. This together with interest from Israel prompted them to make the Rosh Ballata album their first release. With the help of an advance from co-publishers Mutesong and Israeli licensee NMC, they had 1000 CDs pressed up; 95% of these went to export.

olin and Malka are the first to acknowledge that their backgrounds have helped them get started, not least because of their popularity abroad.

"France is our number one territory right now, because Minimal Compact have a very good reputation there," comments Colin. At the same time, he points out that past success Malka Spigel: Rosh Ballata



can be a double-edged sword. "It's given us some useful contacts on the business side, but on the credibility side it's made things harder. There's a lot of pressure in the music industry for artists to continue to do what they did before because it's popular."

In their press information, Swim state: "We believe ourselves to be one of the first of a new breed of record company, almost a 'desktop' record company, taking up the ideas of the dance movement in terms of its production values and approach but not just limiting ourselves to dance music."

Colin elaborates on this view:

"How I visualise it is that here at home is the core of the company, the production centre and where all the information is held, and then other places provide certain specialities. We can do finished mixes here, but the actual CD mastering is far too specialised to have here; at the moment we don't do digital editing here, but it's something we might do in the future.

"Somebody gave us a very good piece of >





advice at the beginning, which was don't try and run before you can walk. We're inherently conservative about spending money, simply because we need to keep careful control over what we're doing in the early years so that we don't wind up having no money."

As well as being the centrepiece of Colin and Malka's studio, where it runs Cubase, their Atari 1040ST also gets used for administrative chores, as the couple do their own promotion...

"You need to keep your communications efficient," says Colin. "People need to know what your releases are, you need to get information out to them. We do our own press releases, and we keep names and addresses on a database in the ST; we also use the computer to keep a general track of the

What advice would Colin and Malka give to anyone else thinking of starting up their own record company?

"If you feel strongly about what you've got, and you feel it could be interesting for people go for it," says Colin. "Just don't give up the day job, make sure that you've got some money coming in to cover you.

"You've got to have quite a bit of neck if you want to make it work, basically. You've got to be prepared to get on the phone to people or send them letters; it kind of helps to be fairly cheeky in general. Try to put across what you're doing as confidently as you can, without sounding arrogant; the way you present yourself can really make a difference.

"Also, financial scrupulousness with anyone you're dealing with is very important, especially in the early days - otherwise things will catch up with you later on. If you're a production team becoming a record company and you're working with mates, make sure that it's all discussed at the beginning, how you're going to budget it out."

Swim can be contacted at PO Box 3459, London SW19 6ES.

Sequencing and recording

Atari: 1040ST w/2Mb RAM running Steinberg Cubase software, plus Steinberg SMP II MIDI/svnc unit

Allen & Heath: S2 mixing desk Fostex: Model 80 8-track tape machine

Phase Linear: 200 amp

Philip Rees: 5x5 MIDI Switcher and V10 MIDI

Sony: 670 DAT machine and TCD-D3

Portable DAT

Yamaha: NS10M speakers

### Sounds

Akai: S950 sampler, XE8 drum module Casio: CZ1000 synth, DH100 digital horn, MT65 keyboard, PG380 MIDI guitar Korg: MS10 monosynth (MIDI'd via M2CV MIDI-to-CV interface)

Yamaha: DX7S synth, TX81Z module

### Other instruments

Fender: Jazz bass Ovation: bass, Breadwinner guitar

Suzuki: folk guitar

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# MTease

### Emerson, Lake & Palmer



Keith Emerson pioneered and popularised the Moog synthesiser from the early '70s, as one third of prog-rock trio ELP. Emerson and the other two - bassist/vocalist Greg Lake and drummer Carl Palmer - have just celebrated 25 years (on and off) together with a major 4-CD box set titled Return Of The Manticore (Manticore

being their original label). More than simply a retrospective, the set includes fresh recordings of all manner of ancient material – some of it in freshly minted Dolby Surround Sound.

We have ways of making the hi-tech musician talk. Good guy, bad guy... angle-poise lamp in the face... sodium pentathol. And, as Keith Emerson recently discovered, the *MT*ease questionnaire...

- What was the first synthesiser you ever played? "Moog Modular System, built by Dr Robert Moog in 1969."
- Who is your favourite musical pioneer? "J S Bach."
- What's the difference between Take That and Stravinsky?
  "Stravinsky wrote 13 different arrangements of The Rite Of Spring before he was satisfied. But there again, if Walt Disney signs Take That there won't be a hell of a lot in it."
- 4 What's the difference between a drum kit and a drum machine? "The person using them."
- 5 Playing live: why bother? "Best way to see the world."
- Which record says most to you about music technology? "ELP's first."
- What does the phrase 'multimedia' mean to you? "Not a lot."
- 8 How do you react to hearing a sample of your music on someone else's record? "By sampling one of their's for mine..."
- What is the next piece of equipment you would like to buy? "A waterproof digital diary."
- Will technology become invisible? "I don't know, but it's a good concept."

So now it's your turn.

sounds as well as the internal 16 track sequencer. Oh yes, and not forgetting the DOS compatible disc drive that lets you transfer MIDI files (General MIDI too) directly to and from your computer Have we hit the mark with the new Korg X3 Workstation? Just check out our free CD Demo and



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BREAKING SOUND BARRIERS

### Behind The Orb live experience lies Chris Craig, audio-visual pioneer. Bruce Hepton sees the light...

orking with the The Orb to create an everexpanding visual feast makes Chris Craig an integral part of their live shows. Like most of the new wave of audio-visual designers, Craig's work is divided between making a living and funding his own R&D. The Orb provide the perfect base...

"R&D is what I'm really interested in. Working with The Orb lets me do that. We've got a lovely set up and good budgets, and they're willing to experiment – so I've got a free hand." Craig has grown with the rave scene since 1988, but his biggest achievement was setting up The Shamen's groundbreaking Synergy

nights, whose influence is seen in clubs like Megadog.

Chris' input was the essence of *Synergy*. It was he that translated The Shamen's dance/rock musical blend into a radical blurring of club and gig styles, combining performance art, lighting, DJs and live musicians in a continuous audio-visual mix. The medium was the message, signalling a way forward and building bridges between the indie and dance scenes.

Like Synergy before it, The Orb experience represents the flowering

of a variety of sub-cultural influences, as Chris explains.

"House music is an idea that has definitely come of age. The punk rock movement was very nihilistic and negative, and swept away the previous hippy ethos of 'turn on, tune in, drop out'. Now, it's more

like 'turn on, tune in, and get with it .

"It's about young professionals getting up, finding the finance and doing something positive. I don't think it's skanking anyone asking more or less £10 to come through the door for The Orb when you see what we do. I think punters are more sophisticated than a lot of promoters realise."

A lot of the people Craig works with are at the cutting edge of their fields, and would rather keep new products defiantly small, cheap and available – ignoring the potential for corporate licencing.

"Potentially," thinks Chris, "the next stage of human development and evolution could come through technology. There's a friend of mine in Japan who develops a thing called an IBVA – Interactive Brainwave Visual Analyser. You've got a headband with sensors, and a radio transmitter, and a receiver hooked up to a Mac. You can read electrical transmissions from the brain when you're on a rollercoaster, or on the point of orgasm, or tripping. And you can use this as a MIDI switch, controlling music, or lighting. What I want to develop is using these brain patterns as chase patterns – say, with a bank of strobes – to visualise your state of mind."

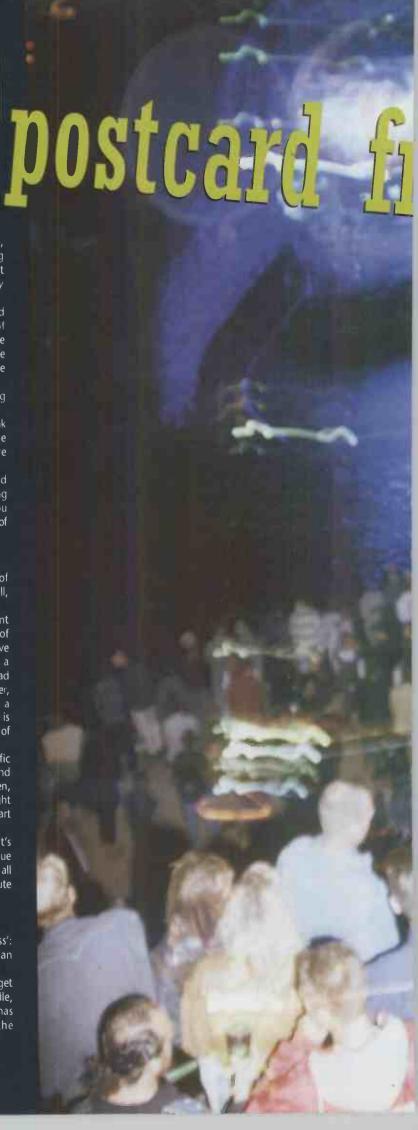
According to Chris, virtual reality and multimedia aren't specific products: they're states of mind, creative tools. Politicisation and commodification of the new technology will undoubtedly happen, but certain pioneers are attempting to ensure it gets into the right hands first. Mondo 2000, the bible of the Californian computer art

and VR subculture, is very close to Chris' heart.

"Mondo are beautiful, they entertain with the technology. It's whacky, intelligent, far out. I mean, a bit too far out! – but that's due to the nature of the technology. It's not all come through, they're all waiting for VR, and they're having fun speculating. This is the route to true VR, and a lot of interesting things are happening"

At an Orb gig, just as with VR, the key word is 'immersiveness': the creation of an artificial environment in which one can become totally immersed.

"On that basis," agrees Chris, "what we're looking to do is get larger venues like Earls Court 2 and have the band in the middle, with 360-degree immersive visuals all round. The emphasis has always been on the music alone: the musicians have had the





# Chris Craig interview

technology and the media push. Now, with lighting, we're getting there. Musicians have been using 16-bit technology – samplers, computers – for years, but it's only really lately that we're starting to get good intelligent 8- and 16-bit lighting technology. Musicians and visual artists are working together, or becoming one. I now want to get involved in some of the underground video/music networks, like how there used to be underground networks for punk rock and punk art".

Multimedia, for Chris Craig, is a gestalt effect: "...where the total is greater than the sum of the parts. You should be able to put the two sensory stimulants of music and lighting together, and a greater whole should emerge. At some concerts you can go 'wow!' at the amount of big TV screens or whatever, but people miss the point, which is that big music and big lights do not necessarily equal a great show."

He also believes that much of the potential for multimedia and VR technology will be realised in the future by the supplanting of the TV generation by a generation of Nintendo and Sega kids.

"There's still a screen that they're sat in front of, but they're interacting with it – becoming technologically literate and dextrous. Nintendo is going to give us the next generation." This is the reason why Craig views most efforts in the field of multimedia as more than mere entertainment. It's about the blurring of traditional concepts of education, entertainment, information and – deep breath – use of the human brain.

"Sure, what I do now is put on flashy shows, but the ongoing R&D that leads from these fields... that's the future! I love interacting with people, that's what all this is about. I mean, you pay £10.60 a month and you can get on EtherNet – access to 60 million computer terminals worldwide. But it's not just terminals, there's people and knowledge out there. If you want to learn about anthropology through Colorado University, for example, it's right there in front of you. Geography matters less and less. But, with The Orb shows, we're still faced with the logistics of being somewhere on a particular night. Eventually it'd be fun to do gigs through the networks!"

# Chris Craig's kit

"The most important bit of kit I've got right now is the Wholehog. It's a new generation lighting control desk, and there really is nothing to touch it in the world. It's basically a 386 PC dedicated to running lighting systems down DMX cables. It's got absolutely huge capabilities: it carries information on 512 separate lamps down one 3-core XLR microphone cable. But the Wholehog does 12 times that – 12 times 512, at very fast speeds. It utilises applied mathematics and algorithms to provide intelligence, so you can do a load of things that you just couldn't do previously. Sting, Peter Gabriel, Grateful Dead and Prince all used them on tour this year, and Peter Gabriel was so impressed he bought himself one."

Chris also has a constantly evolving line up of lamps, strobes, inflatable globes, slide and film projectors. And rope lights!

"We ordered 150ft for the last tour. It's not what the thing is – it's how you use it. Anything can be effective"

Working in co-operation with a number of lighting companies, Chris incorporates new products into his shows and raves. "...That way the companies get a showcase for their new gear, and I get to stay at the cutting edge," says Chris.

In Copenhagen with The Orb, the lighting rig was supplied by SpotCo and Optikinetics, with Solar 250s and Emulators in the various chill-out rooms and Solar 575s on each PA tower. Eight Club Strobeflowers, three Terrastrobes, eight Clay Paky Superscans, a circle of Trilite 6-metres in diameter supporting 16 Dataflash units, four Goldenscan 3s and several Kodak Carousels completed the picture.

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## CD-ROM EXPLAINED

WHAT IS CD-ROM?
CD-ROM is a storage technology for

CD-ROM is a storage technology for large amounts of information, which can be accessed from a PC via a CD-ROM drive, CD-ROM technology uses Compact Discs (CDs) as its information storage medium. These disks can store high resolution colour images, millions of words, full audio sound tracks and much, much more.

THE CD-ROM ADVANTAGE

There are numerous advantages in having a CD-ROM drive. CDs can hold the equivalent of up to 600 floppy disks and software developers can design more sophisticated and complex programs to take advantage of this large storage capacity. Cheap production costs, compact design and the practically indestructible nature of CDs also makes them ideal for software storage.

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Kodak have recently introduced a new technology called Kodak PhotoCD.

This allows normal photographs from a camera to be stored on CD dises, which can then he viewed on your PC. Photographs can be enhanced or manipulated using KODAK ACCESS or GRAPHICS WORKS software, to give you the results you need for your business presentations or the "family album".

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Some applications require that the information written to a CD-ROM is updated on more than one occasion. This involves several or 'multi' sessions of writing to the disc. All four CD-ROM drives featured are multi-session compatible, which means that they can read all of the information which has been written to a CD in this way. Inferior, single-session drives can only read what was originally written on the first session, and the information added on subsequent sessions. Applications such as Kodak's PhotoCD, which can update CDs with additional photographs, require a multi-session drive to read all the information which may be stored on the disc.

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The four CD-ROM drives shown on this page do not require an additional interface card when used with a PC sound card, eg the Sound Galaxy range, which includes an appropriate Missumi/Panasonic/Sony interface. The Mitsumi/Panasonic/Sony interface. The Mitsumi CD-ROM drive includes a 16-bit AT interface card as standard. The Sony CDU-314-02 drive comes with a Mediavision 16-bit stereo sound card and therefore, does not require an additional interface. The Panasonic and Sony CDU-314-03 drives do not include interface cards and would therefore need to be used with an appropriate sound card, eg the Sound Galaxy range (Sony drive has a Sony/Mitsumi adaptor), or an interface card, both of which are available from Silica. AT interface card for Panasonic or Sony CD-ROM Drives - CDR 4072 519.95.vvaT.

EASY TO INSTALL AND USE
All the drives are easy to install. Just slide them into a spare 5.25" drive bay in your PC'. They do not require disc caddies and disc loading is via a manual slide mechanism on the Mitsumi drive and a motorised tray loading mechanism on the Panasonic and Sony drives.

\*NOTE: Some drives may require slide rails - check your PC drive bay

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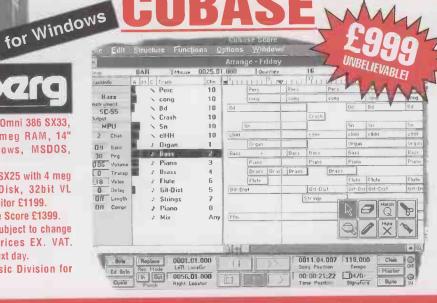
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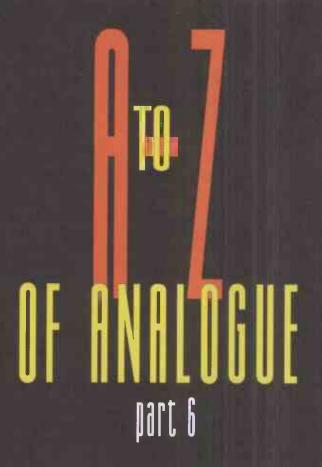








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Readers are invited to submit details of little-known instruments which may be of use in compiling the series and also to point out any mistakes and/or omissions if these occur. All contributions will be fully credited.

**Compiled by Peter Forrest** 



● EMINENT – Organ Users include: J-M Jarre (even up to 1993's *Chronologie*)

• STRING ENSEMBLE Users include: J-M Jarre

## EMS

British firm with its origins in Peter Zinovieff's '60s London electronic music studio. Produced the VCS3, the first portable voltage controlled synthesiser, pre-dating the Minimoog. In a mirror image of Moog's move from large modular to small portable, they then designed the Synthi 100 – a very large machine indeed. Other products followed at regular intervals, but apart from the (similar) Synthi A/AKS didn't repeat the success of

### the VCS3.

Despite financial crises and various takeovers (most recently by Life On Earth composer Edward Williams), the company is still going, manufacturing Soundbeam MIDI controllers, Vocoders, renovating and repairing EMS synthesisers – and even occasionally making VCS3s and Synthi As to special order. Contact: Robin Wood, Trendeal Vean Barn, Ladock, Truro, Cornwall TR2 4NW – Tel. 0726 883265

• COMPUTER SYNTHI – Massive computer-based modular synthesiser system. Developed 1976 – '77.

### Projected price: £25,000

- · Designed to provide highly complex digital control of Synthi 100 modules.
- · Never available commercially.
- Promoted at Frankfurt Music Fair in 1977 as the "ultimate gargantuan synthesising system" -"un sintetizzatore di grandi dimension".
- DATASYNTH Updated version of AKS with 49-note 'real' keyboard and microprocessor patching system. Developed 1980-'81. Still advertised in February 1982.

### Projected price: £3500 - £4000.

- Only one prototype made, shown at Frankfurt Show 1981 (and possibly 1982 though Robin Wood says not!).
- Front panel looked as much like a board game as a synthesiser: the matrix board on the AKS was replaced with a matrix of push-switches – each with its own LED.
- · Two envelopes plus analogue delay line.
- · Actually worked (at least twice), but had a number of definite quirks.
- POLYSYNTHI Polyphonic 49-note pressure-sensitive synthesiser. 1979 c.'81.

Original price: £800 then £990 then £1491.

Target price: £100 - £300

- Only 50 or so ever made.
- Colour-coded front panel extremely bright primary colours. Lots of pretty red, yellow or green LEDs.
- Whole keyboard tends to lurch when you press down for pressure-sensitivity.
- Full polyphony, but only one filter.
- VCOs, two VCLFOs, two ADSR envelopes, filter switchable to 12dB or 24dB.
- White noise; external input; envelope follower.
- Analogue chorus/flanger/delay line with time parameter under voltage control.
- Optional polyphonic sequencer was claimed to provided ten minutes' worth of music, with transposition, editing, storage of VCF voltages, etc. Never appeared commercially, but it was up and running at the launch of the Polysynthi, and at the Frankfurt Show 1979.
   Possibly the first polyphonic sequencer ever.

Interface:	VFM:	
Sounds: ★	Character: ★	
Controls: ★	Collectability: ★★	
Memories:	Ease of use:	
Memories.	Ease of ase.	

- PORTABELLA See Synthi A.
- PUTNEY See VCS3.
- SYNTHI 100 Massive 2-keyboard, velocity sensitive, 64-note, 9-VCO, semi-modular synthesiser. January 1971 '78 (updated in 1981).

Original price: £5500 – c.£12000.

Target price: £1500 - £3000

Users include: Radio Belgrade, Wolfgang Dauner, Daniel Miller, Melodia (Moscow record label), Bruno Spoerri, Karl-Heinz Stockhausen on *Zodiac* (CD 24) and *Sirius* (CD 26), University Of East Anglia electronic music studio.

- Only around 30 were ever produced.
- Too big to be portable 2000mm x 950mm x 837mm and correspondingly heavy.
- •Three LFOs, eight VCFs plus two stereo outs.
- Horizontal control surface houses two massive patch matrices (3600 pin positions each), joysticks, and VCA sliders, pan, filters and mutes – plus a 'producer desk' section

- where you can put your score/notes/coffee.
  - Vertical surface houses the VCFs four HPF, four LPF.
  - Three envelopes (not enough, actually, but as with other modular equipment, you can patch in more); three ring modulators; two voltage-controlled spring reverbs; 8-octave fixed filter bank; fully-fledged oscilloscope; digital frequency readout; eight input amps, four send and return amps, six sine/ramp VCOs, three square/triangle VCOs, three VCLFOs, eight VU meters, three slew limiters, two envelope followers, sample-and-hold, two noise generators, a pitch-to-voltage converter and the sequencer output controls.
  - Uses 0.5 volt/octave control (just to be awkward) but you can set the gain pot on the inputs to half gain in order to interface with one volt/octave equipment.
  - Incredible versatility: rather like three or four totally interconnected VCS3s linked into a mixer and simple sequencer.
  - Revolutionary 6-channel 3-track digital sequencer with a maximum storage capacity of 256 events – nothing by today's standard, but at the time (well before the birth of the personal computer) it was unrivalled.
  - Originally bought only by large college music studios and a few high-profile composers.
  - Stockhausen's model cost 120,000DM c.1977 a custom design with a big vocoder at its heart.
  - Updated in 1981, with Curtis VCOs, filters and EGs, and much more sequencer memory, but only one was sold – to a music college in Spain.

Interface: \*\*\*

Sounds: \*\*\*\*

Controls: \*\*\*\*

Memories:

VFM:

Character: \*\*\*\*\*

Collectability: \*\*\*\*\*

Ease of use:

 SYNTHI A – Re-packaged VCS3 in a suitcase. May 1971 – present.

Original price: £198 Target price: £300 – £600

Users include: Aphex Twin, Richard Burgess, Cabaret Voltaire, Steve Hillage/System 7, Richard Pinhas, Tangerine Dream, Klaus Schulze.

- A very neat and well-conceived re-design of the VCS3 housed in a black ABS briefcase.
- Controls rather more cramped than VCS3, but otherwise identical.
- Original prototype called Portabella unique and collectable.
- See VCS3 for more details

Interface: \*\*

Sounds: \*\*\*

Controls: \*\*\*

Memories:

VFM: \*

Character: \*\*\*\*

Collectability: \*\*\*\*\*

Ease of use: \*

 SYNTHI AKS – Synthi A with keyboard and sequencer built-in. March 1972 – present.

Original price: £420 Target price: £380 – £700

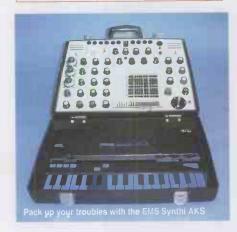
Users include: Cabaret Voltaire, Clock DVA, Depeche Mode, Brian Eno, Simon House/Hawkwind, Dave Hewson, J-M Jarre, Alan Parsons, Pink Floyd (*Dark Side Of The Moon*).

- 30-note non-moving mini keyboard (blue keys rather than white).
- 256-event digital sequencer fitted into other half of Synthi A briefcase
- If anything, more sought-after than the VCS3, mainly

because of the sequencer.

- · Still on sale in late '80s, and available to special order today.
- · See VCS3 for more details.

Interface: \* VFM: \*
Sounds: \*\*\* Character: \*\*\*\*\*
Controls: \*\*\* Collectability: \*\*\*\*\*
Memories: \* Ease of use: \*



● SYNTHI E – Battery-powered patchable synthesiser for educational use. February 1975 – 1980. Original price: £250 – £486

Target price: £100 – £150

- Housed in similar briefcase to Synthi A, but not as neatly.
- Mini-jack patch cords and sockets replaced the Synthi A's matrix board – mainly for cost reasons.
- One VCO, one LFO, one VCF, one envelope generator, a VCA/ring modulator, audio input and envelope follower, 50 mini-jack sockets, 12 sliders, good range of in and out connectors including microphone in, noise, inverter, simple 2channel output mixer and tone control.
- Very basic design, but semi-modular construction still offers more control than conventional synthesisers. For example, low, band and high-pass outputs are available simultaneously from the VCF, whilst resonance can be voltage controlled.
- · Included small internal speaker.
- Optional 18V mains adaptor.
- Curious (cheap and nasty) non-moving keyboard with one section like a ribbon controller and (underneath it) another split up into stepped segments, but not in piano key arrangement – just 24 small rectangles. The advantage of this is that you're no longer encouraged to think in conventional octaves (no bad thing when it comes to EMS synthesisers).
- Eventually (Feb 1977 onwards) an optional DKE keyboard became available for £180.

Interface: ★★ VFM:

Sounds: ★ Character: ★

Controls: ★★ Collectability: ★

Memories: Ease of use:★

• SYNTHI P – Mark III version of the Synthi A. c.1974.

## Target price: c.£1000

- Three EMS prototypes were made, and a fourth 'unofficial' machine is known to exist.
- Original VCS3/Synthi A designer David Cockerell revamped the design with chip-heaters to improve oscillator stability, and replacement filters/envelopes, etc plus extra control possibilities.
- Different shaped case more square at the top.

- Very temperamental eg, strange filter responses.
   Basically, the design wasn't followed through; problems were left unresolved probably because it was too similar to the
   AKS to justify the expense of setting up a new production line.
- One of the most collectable of EMS products.
- SYNTHI QUEG Quadraphonic effects generator. c.1975.
- · Four joysticks.
- Designed by Tim Orr.
- VCS3 The world's first portable synthesiser. A classic patchable design. November 1969 present. Original price: £330 £1900.

Target price: £400 – £700

E&MM retrospective: Aug '86.

Users include: BBC Radiophonic Workshop, Biting
Tongues, Tim Blake, Ian Boddy, Dave Brock/Hawkwind,
Arthur Brown, Richard Burgess, Cabaret Voltaire, Vince
Clarke, Vic Emerson, Brian Eno, Chris Franke, Pascal
Gabriel, The Grid, J-M Jarre (six of them), Eddie Jobson/UK,
King Crimson, Francis Monkman, Patrick Moraz, Michael
Nyman, The Orb, Poli Palmer/Family, Todd Rundgren
('Something, Anything'), Pete Townshend/The Who (organ
processing on 'Won't Get Fooled Again'), David Vorhaus (the
first VSC3 ever made?) (An Electric Storm In Hell), Rick
Wright/Pink Floyd (Dark Side Of The Moon)

- Remarkably good value when it first appeared: as well as being the first portable synth, it was also the first 'affordable' machine.
- Its most distinctive feature is the pin-matrix patchboard: a matrix of 16 x 16 sockets which serve the same function as patch leads on most modular synths. At first this can be mind-boggling, but does become intuitive in time. Nevertheless, you need to exercise care and have reasonable eyesight.
- If, for example, you want to patch VCO1 and VCO2 into the ring modulator, you simply insert small pins into the matrix where the rows and columns intersect. Putting together a simple voice requires quite a number of pins, but the basic idea is the same and there's no problem with patch cords getting in the way.
- As with the Minimoog, there are two purely audio VCOs, and one (frequency range .05Hz - 500Hz) which will work as an audio VCO in the mid and bass range, but is more usually used as an LFO.
- VCO pitch controlled by highly accurate vernier pots, but the oscillators are so unstable that any attempt to keep them



in tune is pretty much doomed to failure.

- Awful as a melodic instrument but (almost) unsurpassed as a sound-effects generator.
- Curious envelope generator terminology, but, thanks to voltage control, highly versatile.
- Noise generator, ring modulator, in-built stereo speakers, and a spring reverb with wet/dry ratio voltage-controlled.
- · Distinctive L-shaped hardwood case.
- First flowering of the joystick controller, nearly 20 years before the advent of vector synthesis.
- VU meter switchable to read either a control voltage or signal level.
- Mic and line inputs, stereo outputs with the advantage of voltage controlled panning.
- 37-note DK1 keyboard came as optional extra. Priced at £150, it was velocity-sensitive with an internal sawtooth oscillator. Later followed (c.1972) by the DK0 (a cheaper version without the oscillator), and then (c.1973) by the DK2, which was similar to the DK1 but duophonic.
- Early versions had slightly different pin-matrix configuration – meter output was in first column, and there were no white lines separating sections. These machines were unable to power the KS sequencer. Mark II versions (and the Synthi A) were designed (from March 1972) to overcome this problem, and also had slightly improved oscillator stability.
- Prestopatch socket (32-way edge connector) could provide instant patching set-ups – by inserting various configurations of a multi-pin plug – but you still had to set the knobs by hand.
- Originally, EMS planned to make up Prestopatches to customers' specification, but this proved very labour-intensive (and there was little demand), so they just produced three standard settings – 'Keyboard', 'Guitar', and (of course) 'Battle'.
- Some batches of VCS3s (and Synthi A/AKS) didn't have the Prestopatch facility and EMS eventually stopped providing them altogether. The socket was then referred to as a 'computer interface' – which one or two people actually got working.
- The matrix and the pins are susceptible to dirt, wear and damage, and are now very expensive for EMS to buy.
   Consequently, they may ultimately come to be seen as the machines' Achilles heel.
- Not easily interfaceable with other manufacturers' equipment. The (approx) 0.3 volts/octave spec is no big problem, but there are no readily-available gate input sockets. Modifications (by EMS) are necessary before using a MIDI/CV box
- A range of other modifications are also available from EMS, such as oscillator sync and stabilisation, voltage control of waveforms, extended attack times – and so on.
- The VCS3 was originally called the Putney (still is in USA, where they and the Synthi A/AKS are highly sought after) and the DK1 keyboard was known as the Cricklewood. The intials VCS3, incidentally, stood for Voltage Controlled Studio Mark Three.

Interface: \*\*
Sounds: \*\*\*\*
Controls: \*\*\*\*
Memories:

VFM: ★
Character: ★★★★★
Collectability: ★★★★★
Ease of use:★

VCS4 – Two prototypes were made:
 Version A: 1971 design built by guitar-maker Kif
 Wood (Robin Wood's brother). A mustard-coloured box containing a VCS3 with a moving keyboard

attached. Built as a prototype when EMS were looking for a compact, portable version of the VCS3. The competing design (Synthi A) not surprisingly won. Version B: c.1971 design by David Cockerell for Peter Zinovieff – two VCS3s side-by-side above an organ-style 5-octave keyboard with knobs and sliders.

## E - m u

Still one of the most successful synthesiser manufacturers in the world, with their high-quality samplers and well-regarded Proteus, Morpheus and Vintage Keys modules, E-mu's history goes back through the first relatively affordable sampler, the Emulator, and their digitally-scanned polyphonic keyboard, to one of the most sophisticated and well-made modular systems ever manufactured.

Original founders and designers were Dave Rossum and Scott Wedge. E-mu also had a part in the design of the SSM chips used in early Prophet 5s.

- 25 Monophonic synthesiser, c.1971. Only two machines ever made.
- · Basic Minimoog-style synthesiser.
- · Scott Wedge joined in time to make the second machine.
- MODULAR Fully-fledged modular synthesiser, assembled to order. 1972 '81. Original price: \$1500 (for basic system). Target price: £2000 £8000.



Users include: Vince Clarke, Darryl Dragon/John Kay band, Patrick Gleeson (*Beyond The Sun* featuring a 96oscillator set-up), Herbie Hancock, Roger Linn, Hideki Matsutahe, John McLaughlin, Lenny Pickett/Tower Of Power, Leon Russell, Frank Zappa, Hans Zimmer.

- All the usual complement of modules, including lag processors, transient generators, analogue sequencers, reverb units and envelope followers.
- Excellent construction solid aluminium panels, high quality knobs and switches.
- Buyer could make own choice of modules, so each one had to be hand-assembled to order.
- About 100 systems were made in all.
- Keyboard started out as a digitally-scanned monophonic unit the first ever. This was then made polyphonic (and licensed to Oberheim for the 4-voice and 8-voice). Next came the 4060 polyphonic microprocessor-controlled keyboard, with a 16-channel sequencer. This was the catalyst for the development of the Prophet 5 and all subsequent

polyphonic synths.

• From 1973 onwards, E-mu designed and worked on a guitar synth for John McLaughlin. He used it on tour from 1975, but it proved unwieldy and unreliable. Tuning (on six separate voice boards) took ten minutes, and patching longer still.

Interface: \*\*

Sounds: \*\*\*\*

Controls: \*\*\*\*

Memories:

VFM:

Character: \*\*\*\*\*

Collectability: \*\*\*\*\*

Ease of use:

• AUDITY – 5-octave, 61-note synthesiser. The ultimate analogue synth? 1978 – '79.

Projected price: \$70,000

- Peter Baumann commissioned a massive 16-voice computer-controlled synth from E-mu, with each voice having two analogue oscillators, several filters, VCAs, LFOs and transient generators – all digitally controllable. E-mu then decided to take the idea and develop the Audity.
- A fully functioning prototype was built with funds provided by royalties from SCI (for the Prophet 5 keyboard); but just as the Audity was about to be shown at the 1980 AES show, SCI pulled the plug on the royalties and the project was shelved. (E-mu saw the Fairlight for the first time at that show, and set about designing the Emulator undoubtedly a far better move commercially!)
- Sharply sloping rear panel, with computer control systems on left, and synthesiser controls on right – 45 knobs plus numerous push-buttons and sliders.

## ETI

Electronics Today International, an electronic constructors' magazine, published several projects, including the predecessors of the Transcendent 2000 and Polysynth, 1024 Composer, and Vocoder.

• 4600 – 4-VCO, 48-note (F-E) monosynth with pin-matrix patching. c.1970s.

Original price: Unknown

Target price: £100 – £300

- Circuitry later used by Maplin 3800 and 5600 synthesisers.
- Temperamental, but with its oscillator power and EMS-style pin matrix, full of possibilities.
- Two full ADSRs with extra delay control, and a transient generator start level, delay 1, slope 1, hold level, hold delay, slope 2, and final level controls.
- Sine, triangle, sawtooth, inverted sawtooth and square waves available on all oscillators, with pulse width modulation.
- · Good mixing facilities.

Interface: \*\*

Sounds: \*\*

Character: \*\*\*

Controls: \*\*\*\*

Memories:

Ease of use:\*

- ORGATRON Electric version of reed organ.
- Produced in late '30s, then further developed by Wurlitzer.

o be continued...

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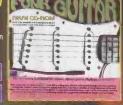
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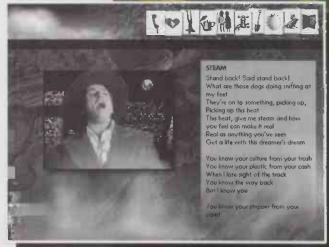
Peter Gabriel's CD-ROM \*\*Xplora 1 combines audio, video, text and graphics within an interactive computer environment. \*Phil Ward\*\*
meets the team behind it, and finds himself having fun - and, of course...

# Games Without Frontiers

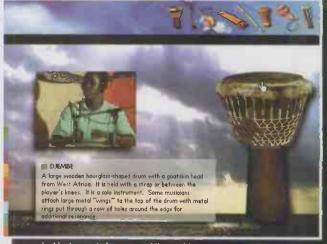
few years ago, a software designer called Steve Nelson was working in California with Apple's Advanced Technology group. There, in the pioneering atmosphere of Silicon Valley, it struck him that he could take some of the readily available ingredients of one of his favourite albums – the video, the sleeve artwork and the music itself – and sample them into a prototype version of some interactive software that he'd developed.

As it happens, the album was So by Peter Gabriel, and the program became a basic CD-ROM demo that presented the album in a completely new way. Combining snatches of video, audio and promotional graphics which could be dipped into in any order by the user, the demo caught the attention and the imagination of one or two significant people. Including Peter Gabriel.

Next thing you know, there is not only a new company headed by Steve Nelson called Brilliant Media, but also a new company called Real World Multimedia based at Gabriel's celebrated studio



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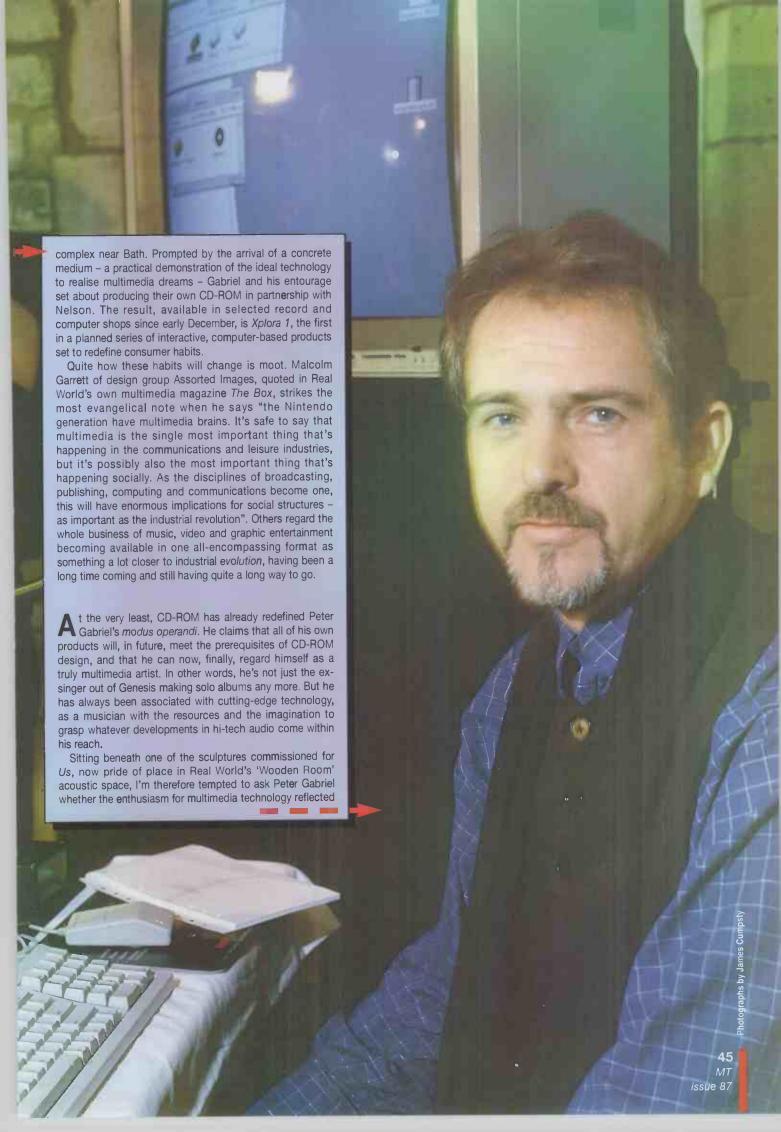


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Gabriel commissioned 11 artists to produce a work for every track on Us. Here, Scottish artists David Mach interprets the song 'Come Talk To Me'

any sense in which purely audio technology had lost some of its pioneering excitement.

"I don't think it's so much because audio is not exciting," he replies. "I've been working upstairs on a piece of music with Nusrat Fateh Ali Khan for an Oliver Stone film for the last three days, and I've found that just as exciting as I ever have. So I haven't lost my enthusiasm for concentrating on music at all. It's just that I've always wanted to be an 'experience' designer, in a sense. Some of the old stuff I used to do – The Lamb Lies Down On Broadway with Genesis, for instance – was still very much trying to incorporate visualised story ideas along with the music.

"The CD-ROM is an extension of all that, it's not that separate. I think that for some artists who have grown up with just music, and their dedication is to one instrument, then that is what focusses them. And there are others like me who haven't necessarily mastered a technique in any one direction, but who just like to explore ideas – artists who are more interested in ideas and writing than playing."

The absence of virtuosity in any one instrument aligns Gabriel with a new

generation of artists who have found their voices by mastering the techniques of the computer, and who share that innate visual sense – a fact which has not escaped his attention.

"Yeah, I think that's really interesting and exciting. I think the actual tools are still going to change a lot, though. I don't think the mouse is God's gift to the creative process, it can be very physically frustrating. So we have to come up with new interfaces, and I think there are a few people working on it...

"But it is very exciting to be an artist at this particular time, because there is a fundamental revolution happening in the way that media are getting mixed together. It provides us with all sorts of possibilities as artists and as individuals, and I think it will change the way that we communicate with each other. Obviously, to be there at the birth of a new medium and have a chance to explore putting things together in different ways is very exciting. I think there are all sorts of possibilities now that I and a lot of others can't wait to get into."

emonstrating *Xplora 1* with Peter Gabriel on this fine winter's day is one Mike Large. Mike is a significant part of the "eccentric bunch of enthusiasts" that now forms the Real World Multimedia entourage. For years he has run the recording studios as a going commercial concern – Real World is available to any clients who can afford it – and overseen the many technical developments which characterise this enviable facility. He too has heard the call of multimedia, and as an engineer has a precise notion of both its creative role and its position in the development of the technology available to musicians.

"People who are interested in technology," he believes, "and who have exhausted the possibilities that audio technology has to offer them, will want to get into this. But I don't think that has anything to do with the creativity involved, in that people make great records straight to stereo with a 4-channel mixer, and people make great records running 96 tracks through an SSL with more computers than you can shake a stick at. It doesn't make any difference to the quality of the art that comes out at the end. As Peter













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> says, some artists are going to get into this and others aren't, and there's certainly a side of him which has always been more than a musician, that whole visual side, which will

only be satisfied by something like this.

"For me, the three biggest things to affect music over the last 20-or-so years have been 24-track recording, sampling and sequencing. They all brought their own revolutions. There may be something else to come, in terms of making music, and it may be that we all get carried away with developing multimedia instead of developing different things for the studio - but I don't think it's as clear cut as all that. Technology has progressed; computers have arrived with more speed and power. I encountered my first sequencer about 10 years ago, and that was because computers with the power to sequence were cheap enough for the likes of you and me to work on. Now, computers that can deal with multimedia are cheap enough for the likes of you and me to work on...

"At the same time, synthesis and resynthesis has always been something that people are chasing. The de-reverberator... maybe at a time when it's cheap enough for us to buy boxes that can remove natural reverb, and completely re-create things, and do all the things people have been talking about for years, there'll be another revolution in the studio. But I don't think any of those things has actually changed what comes out of the studio in the end. This, however," he proclaims, nodding sagely at a computer screen now bustling with a video grab of pounding Burundi drummers, "this probably has, because it enables people to think in more than one dimension - if you can define music as being one dimension. And it's nonlinear, so you're no longer creating something with an obvious beginning, middle and end."

ne of the most compelling of Xplora's interactive features is the 'tour' of Real World Studios itself, in which you can follow video footage from a camcorder carried around the complex, clicking on various doors as it pans and, in so doing, selecting and viewing the sequence for that particular room. Here's where you get to mix one of the tracks from Us, watch a writing session involving Gabriel and programmer Dave Bottrill, and encounter Brian Eno presiding Gamesmasterstyle over a mix'n'match jam session featuring a selection - your selection - of Real World alumni such as Jah Wobble, Ayub Oganda and Sinead O'Connor.

The tour is typical of the disk's aesthetics: as you wander around the studio buildings - a converted mill in a leafy Wiltshire village - you hear birdsong, running water and the lazy crunch of footsteps on the gravel beneath your feet. Details like this remind you of two things. Firstly, technology of this kind can be anything you want it to be - you're designing software with such powerful audio and visual interfaces that the environment you create can be a true reflection of your personality. And secondly, this being the case, Xplora is



quite patently the work of an ageing hippy on a mission to counter the Bladerunner-inspired urban imagery of most computer games.

We spent a lot of time trying to get the interface right," Gabriel admits, "because obviously it's new territory and some of the stuff that I've seen so far looks a bit cold and sci-fi, a little dehumanising. We very much wanted something that was personal and warm and had some natural references, so you will see water, leaves, rocks, flowers and grass. It's these elements as backdrops which I think have helped to give this disc its character. It looks different to other stuff that I've seen around.

"In many of the screens, you see a marriage of hi-tech and handmade, which is part of the aesthetic philosophy for much of what we do. We wanted to get under the skin. There are things that you can deconstruct and reconstruct, one of which is my face, which is actually the vehicle that allows you to travel round to other parts of the disk."

Specifically, cut-outs of Gabriel's eyes, nose, mouth and ear act as a simple menu for accessing the four sections of the disk: Us, the album and videos; Real World Records, including a look behind the scenes at a WOMAD festival; a world music directory; and a 'personal file' which details Gabriel's involvement in Amnesty International, the Witness project, the Brits and Grammy

awards, plus the studio tour.

Within the world music section of the CD-ROM, it's possible to select from a bundle of ethnic instruments and access a neat little demo screen, featuring text, video, photographic and audio examples of the chosen item. It's also possible, by clicking on the appropriate part of the picture, to 'play' single notes - ie. to trigger one of the samples. This enables you to get to grips with the sonic range of the thing, but don't expect to be able to use it as part of a sequence...

"That will be next," says Gabriel. "It would be great to have some kind of creative pack for the DIYers, especially using the tools that we worked with on a particular record. I think that would be a nice thing to look at next time. But we're taking it stage by stage.'

For this reason, at this stage at least, Xplora's educational properties frequently outweigh any sense of really creative involvement. The mixing options offered for 'Steam' in the Us section, for example, are steadfastly restricted to volume and mute for just four tracks - guitar, bass, drums and vocal. But according to Mike Large, this does not reflect any lack of confidence on the part of the potentially vulnerable artist.

"I don't think fear of what people might see will affect how you make the record. You can always polish everything that you're going to present, anyway. The four tracks of 'Steam' were created by Richard Evans, and there's nothing in there that Peter wouldn't want you to hear. It's still a controlled process; you're not getting to mix raw audio. What is true, though, is that Peter viewed this album as a multimedia project. Even at the outset, as well as recording an album he was thinking about videos; he was commissioning 10 works of art; he appointed Mike Coulson and Nichola Bruce to co-ordinate the whole visual side of the album; he launched a magazine, The Box; we produced a long-form video; and we produced a CD-ROM. There was a whole suite of stuff in Peter's mind when he started on the record."

You're suddenly nagged by the realisation that only one of these media actually represents new technology. Could it be that the crucial role for CD-ROM is as a catalyst for producing many disparate elements, with the confidence that there is now a medium which can draw them all together?

"I think it would have been in Peter's mind," Mike replies. "He's been thinking multimedia for a long time. I guess we became gradually aware that it would be possible - and then suddenly the technology had arrived. So it made sense to do a lot of the things that

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Peter had wanted to do before, knowing that it was now feasible to produce something in which it could all be used."

Gabriel himself is happy to expose the creative processes, at least as much as a carefully designed CD-ROM will allow...

"What we are seeing here is really the first generation of the type of technology that lets people get inside the work of different artists. This is manifesting itself in the home in this type of equipment, and we are going to have more. We are still only beginning to feel our way into the home environment."

In the meantime, plans are afoot to take this kind of interactive experience out into the open, and build a sort of high-brow Disneyland to showcase the potential of the various new technologies. The project has already reached the stage of serious planning talks with the civic authorities of Barcelona.

"The idea," says Gabriel, "is to create a purpose-built experience park. A larger scale theme park is the closest analogy so far, but it will be something that will integrate some of the environments that you would normally come across in art galleries, churches, at Disney, in arcades and science museums. These influences are going to produce a new medium. I've been working on the idea with a large group of artists, and with Brian Eno and Laurie Anderson in particular. It will be a beautiful, natural environment, but also a place where you could explore and challenge yourself in the various experiences, which we would bury underground. Teams of artists would be collaborating to create the park, so you get architects, psychologists, sculptors, film-makers and musicians collaborating on creating these wonderful worlds that people can get inside and have some serious adventures in."

I heard a rumour that Kraftwerk might be among those artists...

"One of the guys we met, Rolf Engel, our German co-ordinator for the project, has worked with them on a few things, so he's trying to involve them in some way. We're certainly very interested in what they've done and some of their ideas. The whole park is still just about ideas; if it turns into lumps of stuff and becomes real, I'll be very happy. In the meantime, it still has a very important role to play for all of us who are involved with it, just as a pool for ideas, an inspiration."

That CD-ROM technology has fired Peter Gabriel's imagination, there can be no doubt. Furthermore, when it comes to discussions of the wider implications of digital information processing, Gabriel belongs in the same evangelical camp as Malcolm Garrett.

"I think the way people will interact with all this technology is going to change the way that we live and the way that we think. This particular medium will allow us to interact in real time and build new environments and communications as we go. There are some parallels with sampling technology, which is still fairly new to us. Musicians are suddenly able to grab any sounds, rhythms, colours,

textures and noises and start throwing them together in different ways, even in their bedrooms. It doesn't necessarily mean that because you have 500 colours on your palette you are going to make better paintings – content is still everything – but it does provide people with a lot more tools.

"It empowers people, because it will give them access to so much. You won't need to

acquire great skill levels

in each field to utilise what these facilities offer – you can use other people's skills to help create something of your own. It's a fundamental cultural shift. This sort of TV/computer technology, which still is for most people a fairly passive relationship, is suddenly going to be something that can really activate us. There are times, I'm sure, that people will want to be a vegetable and just sit back and absorb – that's how I use TV sometimes – but it's also going to be able to be flipped around to become a creative catalyst to fire us, charge us and accelerate us down the routes that excite us."

Today, the living room. Tomorrow...

"I think it's extremely exciting and believe that the technology could transform a lot of the world both socially and politically. I know that sometimes people think it's arrogant and elitist for a rich westerner to be talking about the joys of computers and technology when in many parts of the world people are struggling to feed themselves, and I certainly accept that. However, if you look at the history of technology and the way that prices decrease, you will see that transistor radios, televisions, fax machines or telephones were all once luxury, elitist items – and I'm sure the price of this technology will come right down.

"The satellite communications systems that we are now developing along with global telephone links mean that any village on the surface of the planet could have a small information kit, which would allow them to satellite up-link and down-link. With a few

low-cost PCs, people in these villages could become information processors, and the impact of that could allow the third world to shift into information economies. They can then communicate directly, without having to go through the government communications system, and with solar power they can power their systems without having to be dependent

on their countries' power supplies. So I'm sure that it's going to be harder to control and censor information. It's going to be impossible to stop, just as the Soviet Union found it impossible to stop the introduction of fax machines. To me, it's a great source of joy that this sort of networking is going to happen whether governments want it or not, and there is a real chance of the technology empowering the people."

Perhaps it is the function of the visionary to perplex us with grandiose dreams. But if Peter Gabriel's unfettered optimism seems to get just a little carried away at times, *Xplora 1* is at least a bold, pioneering and downright fun kind of a product for an established rock star to be responsible for. At the very least, it's an excellent compilation for folks who just plain love Peter Gabriel. One foot, it would seem, is still firmly planted in the crunchy gravel of the real world.

"I think that we've learned a lot about what is and isn't possible at the moment, but also we have got a sense of what we would like to do in the future, and some of the other people that we would like to work with. I personally would like to see maybe 12 titles on the go by the end of next year. We are trying to involve some of the people that we have been talking to on this experience park project and bring them into this technology by creating some discs together.

"This type of work is really the most exciting thing that is going on at the moment, and I think it's going to become the centre of my work as an artist and also of what we do at Real World as publishers. In a sense, it's a move from being a record company into becoming a sort of interactive creator and experience design label – which is the name I prefer. It feels as if we are on the edge of a revolution."





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## NIT ISSUE 87

## (2)

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**6 54 Roland 760 sampler** 

A mid-priced sampler with a spec that'll worry the high-priced competition Andrew Jones

Ose Digitape direct-to-disk recorder for the Atari Falcon

Can this latest software package help the Falcon spread its wings? Ian Waugh

**62** E-mu Morpheus synthesiser

From one of the few companies still committed to developing mew methods of sound synthesis, the Morpheus promises much. Does it deliver? Simon Trask

dbx 120XP Boom Box
subharmonic synthesiser

When you hear the beat go boom and you feel it in the pit of your stomach, look out for this black magic box Bob Dorman

**68** Roland P-55 piano module

A piano for every occasion – and a few more besides lan Waugh

**670** Seqwin v2 MultiMedia software

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What are you waiting for? I an Waugh

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## **Contributors:**

- lan Waugh
- Simon Trask
- Andrew Jones
- Colin Lemmon



Roland

S-760

sampler



A slimmed-down rear panel with less outputs but a SCSI port for extra flexibility, and room for upgrades

# Roland's latest contender for the sampler crown combines a heavyweight spec with a keenly competitive price. Andrew Jones puts on his referee's hat...

elieve it or not, nearly all the people MT has interviewed over the past few years have had one thing in common. Whether they be ageing synth pioneers, raving sample teensters, cutting-edge trancers or chart-hitting megastars, cast a glance down their equipment list and chances are you'll to see two words: Akai sampler.

It's fair to say that Akai have had a stranglehold on the sampler market for some while now. The company's \$1000 sampler became the industry standard and a legend in studios around the world. Of their more recent models, the \$01 with its sub-£700 price tag convincingly covers the budget end of the market, while the more expensive \$2800/3000 and CD3000 models do the same for the high end.

Other manufacturers haven't exactly sat back and done nothing, however. Roland have mounted perhaps the strongest challenge. Back in 1990 their S-770 attempted to lure the most finnicky of sampler buyers away from the Akai fold but, while it was critically acclaimed, its price tag (close on £5000) put it beyond the reach of most users. A year later the S750 at around £3000 sold in greater numbers but never achieved the kind of success that it perhaps deserved.

Now comes the S-760. On paper it seems to have the same spec as the S-750, yet Roland have reduced the price dramatically, to just £1699. Clearly they've recognised a price gap in the market and decided to fill it.

The S-760 is a stereo 16-bit sampler with 2Mb of RAM as standard, expandable in 8Mb chunks to 32Mb using standard Mac SIMMs (the S750, in comparison, can only be upgraded to 18Mb). At the time of writing, fully expanding the memory would cost around £1400. The S760's cheaper price has of course

meant some compromises. Most obviously, Roland have managed to squeeze all the technology into a 1U-high rackmount unit. Also, there are only four individual outputs as opposed to the eight found on the S-750 – and no mic inputs. The sampler's reduced height inevitably means that it has a

The sampler's reduced height inevitably means that it has a smaller LCD than its S-series companions. The 160 x 64-dot resolution allows for more detail than you'll find on many a 1U unit. However, while it's good enough to show sample waveforms and sample editing data, it's still a little limited for some operations. Also, while stepping through the heaps of choices available on the 760 you soon realise that Roland's design thinking is, as with their other samplers, based around mouse operation – which isn't implemented as standard on the new sampler.

Fortunately, Roland will be releasing an expansion card

providing a mouse port and TV/monitor connector in early 1994. All the information currently displayed can then be shown on a monitor in much the same format as that displayed on the S-750's screen, and the options selected via the mouse. The card will also have four digital outs – bringing the total to eight – and two digital ins. The OP-760-1 card, as it is known, is expected to sell for £300.

The 760's front panel is quite a basic

The 760's front panel is quite a basic affair, with a set of cursors for stepping through screen options and two keys for



Roland



Jam-packed: The S-760 with free CD-ROM, system and sound disks.

## Hard fax

Sample RAM: 2Mb expandable to 32Mb

Polyphony: 24 voices

Sampling frequencies: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz,

48kHz

Data format: 16-bit linear

Signal processing: 16-bit A/D; 18-bit D/A; 24-bit internal

Effects: 2-band EQ Internal memory: Volume = 1 Performance = 64 Patch = 128 Partial = 255

Sample = 512

Connectors: headphones, L&R stereo inputs, four individual outputs,

MIDI In, Out/Thru, SCSI

Frequency response: At 48kHz: 10Hz - 23.4kHz (+0/-3dB)

At 44.1kHz: 10Hz - 21.5kHz (+0/-3dB) At 32kHz: 10Hz - 15.5kHz (+0/-3dB)

Noise: Stereo outputs or individual outputs = <100dBm

Input level: -15dBm Output level: 15dBm

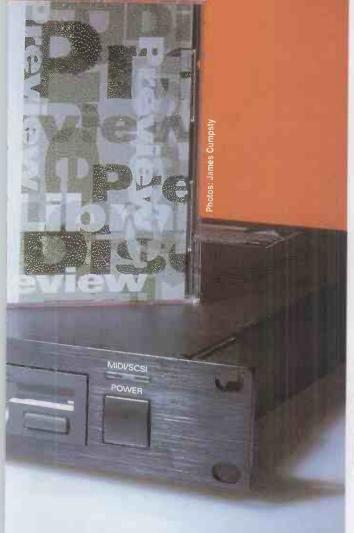
entering/opening menus, plus a set of function keys and two dials for adjusting input and output levels and editing onscreen values. Completing the panel are the 3.5" disk drive and the power on/off switch.

power on/off switch.

The sampler's rear panel includes a SCSI port for connection of storage devices such as hard disks and CD-ROM drives. In addition to Roland S series data, you can also load Akai samples and programs into the S760 via SCSI (with the exception, it seems, of S3000 and S3200 data); to paraphrase an old saying: if you can't beat 'em, make sure you can read 'em...

Included with the 760 is a free CD-ROM which provides

Included with the 760 is a free CD-ROM which provides orchestra, synth, world, rhythm and SFX samples – a great start to your collection should you wish to invest in the pecessary





The four levels of sound architecture listed on the main menu screen



Samples can be mapped across the keyboard in Performance mode



Choose sample length, rate and channels before sampling



Monitor and adjust the signal before recording



The signal is displayed onscreen after sampling



All the editing options listed in Sample mode



Adjustments can be made in edit mode (time-stretch section shown)

CD-ROM drive. As an added bonus, any purchaser of the 760 has free and unlimited access to Roland's existing CD-ROM sample archive; all you have to do is book time at the company's Fleet offices, then turn up armed with enough discs.

Those familiar with Roland's S-770 and S-750 samplers will recognise many of the commands and features on the 760. The main onscreen menu lists six options: Performance, Patch, Partial, Sample, Disk and System. The first four of these reflect the 760's sample architecture; while they're confusing initially, an understanding of them is essential to the operation of the 760.

A Sample is, not surprisingly, the actual raw sound data, and the Sample mode is where you do your sampling and sample editing.

Partial mode lets you combine up to four Samples to create a

first seen on Roland's D-70 synth and also to be found on the S-750. This feature provides a subtle pitch modulation in an attempt to create a warmer, more natural sound like that of an analogue synth.

One notable absentee is the resampling feature which was a useful option on the S-750. This allows you to resample complete Performances, or arrangements such as chords, basslines and melodies made up of several Patches. These (re)samples can then be triggered from a single key. Roland tell us that resampling will soon be available for the S-760 as part of a software update.

As you might expect with such a high spec, the S-760 doesn't fall short in the sound quality department; it certainly maintains the high standards set by its two predecessors, with a quoted frequency response of 10Hz to 23.4kHz. Of particular note are a powerful bass end and a dynamic quality across the range. Load



sound called, yes, a Partial. In this mode you can tune, transpose and pan these Samples, route them through a Time Variant Filter and Time Variant Amplifier, and apply LFO modulation to them. Patch mode is the next level up, allowing you to assign multiple Partials to the keyboard in order to create multisplit textures. If you sample at this level, the S-760 automatically assigns the data to a Sample, a Patch and a Partial for you.

The highest level is represented by Performance mode; this is where you assign your Patches to multiple parts for multitimbral MIDI playback, up to a maximum of 32 parts. Each part can be assigned a single Patch and given MIDI channel, volume level and keyboard range settings. Finally, all the data held in the S-760's memory can conveniently be saved to disk as a single file called a Volume.

A more detailed look at sampling on the S-760 will give you a good idea of what using the sampler is like. Sampling is best dealt with in Performance mode so that you can set up the Performance in one fell swoop. You're given the choice of Q-Samp, a 'quick' method of getting samples into the machine, followed by Q-Edit to make swift adjustments to your sample.

The Sample page indicates the present sample rate, allocated sample time, and whether sampling is in stereo or mono; adjustments to all these parameters are made using the inc/dec dial.

Stereo sampling at 48kHz into the S-760's standard 2Mb of RAM gives you 11.2 seconds sampling time. At the other end of the scale, a mono sample at 16kHz could be up to 67.4 seconds long.

The sample input level can be monitored and adjusted, with two horizontal 'moving bars' giving a graphic indication of the signal level for easy setting. When you're pleased with your setup, you simply press one of the function keys to begin sampling. The waveform is then displayed and the sample can be auditioned via MIDI (keyboard, sequencer etc) or by pressing the volume control button.

W ith your sample now in memory, there are a sack-full of editing possibilities at your disposal. It's easy just to go straight into Q-Edit where, depending on what mode you are working in, several options are available including the commonly-used Loop.

For more complex sound editing, you need to enter Sample mode and press the Value/menu knob to bring up a full list of options. These include a more extensive list of loop commands, auto-truncate, sample compression/expansion, rate conversion, cut, splice, erase, insert, mix and combine. You also get timestretch for sample length alteration that doesn't affect sample pitch, and a digital filter section with low/high pass selection and resonance. One notable parameter is Analogue feel,

up the sound disk that comes with the S-760 and you'll get a full demonstration of the machine's capabilities; the drum set and strings sound particularly rich and dynamic.

A t last Roland have come up with the goods: a quality sampler at a very attractive price that looks set to dominate the mid-budget section of the market while also appealing to those looking for top-notch sampling capabilities.

The S-760 is not without its drawbacks, but Roland's plans for the future may well iron these out. The limited number of outputs provided as standard will no doubt annoy some people, but the optional OP-760-1 board will at least give them the full eight; others in the market for a sampler at this price may well not have enough spare mixer channels to take advantage of so many outputs.

The presently limited screen and keystroke combination also have drawbacks. However, again with the upgrade the system will be able to benefit from a much faster and more intuitive mouse-driven operation and full-size monitor display. And even with the extra £300 needed for this upgrade, the whole system will still be very competitively priced.

The learning curve is steeper than most, but with the Q-Samp and Q-Edit options you'll find yourself in the world of sampling soon after power-up. Crossing the more complex bridges of sample editing can be made at a later stage, at your own pace. Those familiar with Roland sampling will certainly feel at home with the S-760.

So while cost-cutting measures are in evidence, most have left the S-760 untarnished and a sampler to be reckoned with. And with a spec right up there with the big boys, the S-760 is sure to draw much attention from those who previously thought that 'serious' sampling required an outlay of more than £3000.



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# DigiTape

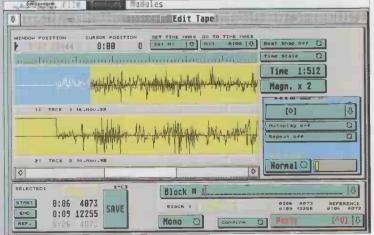
## Direct-to-disk recording for the Atari Falcon

## Atari may have produced a Falcon but is the software good enough to prevent it becoming a turkey? Ian Waugh carves it up...

hroughout its 'lengthy' gestation period, Atari's Falcon promised to be the new computer as far as the musician was concerned. Based on the ST – so existing Atari users would feel reasonably at home – it had all the requisite go-faster stripes and that all-important DSP (Digital Signal Processor) chip with its ability to handle direct-to-disk recording without any additional hardware – other than a large hard disk, of course.

The delay in its arrival in the shops, however, gave the PC and Mac the opportunity to make their own inroads into the music market. Many people, I suspect, will have already traded in their ST for one of these computers, spurred on by

The Multitrack Recorder window has nine module slots into which you load record, playback and effects modules.



The Edit window lets you zoom in and edit up to two tracks at a time. You can link tracks to preserve stereo pairs.

the fact that most sequencers are available on all three platforms so a change of machine doesn't necessarily mean a change of sequencer.

And software takes time to develop so it's only recently that the major sequencers have been made Falcon-compatible and the long-awaited direct-to-disk recording systems have appeared.

DigiTape is the most recent of these systems. It is copyprotected by a dongle which plugs into the Falcon's DSP socket, leaving the cartridge port free for music program dongles. It requires a screen resolution of at least 640 x 400 and will work quite happily in mono or colour – although if you use more than 16 colours the manual says the performance may slow down and, conversely, running in mono may speed up an otherwise sluggish system.

The program uses a series of windows which are selected from GEM menus. None of the windows have their own menus: all functions are selected by clicking on icons within the windows and in many cases sub-menus pop up. A little unconventional but it works.

Before recording, it is necessary to create a 'Tape' by telling the program how many tracks you want to record, the sampling rate and the length of the recording. This minimises the work the hard disk has to do, especially if the recording is all in one area of the disk. It's a good idea to run a defragmenter over the disk before you start if it's sharing space with other files.

It must be pointed out that there was actually a problem with the Tape creation process with certain versions of the Falcon's AHDI which controls the hard disk. DigiTape won't work with v6.06 – the most recent release (as of writing) – due, according to the programmers, to a bug in the Atari driver. DigiTape was designed to work with v6.03, but this can also cause problems: namely the overwriting of a neighbouring disk partition if the partition you are writing to is filled! The programmers are currently working on a custom driver which should be available by the time you read this – but do check!

DigiTape supports eight sample rates – 8.195, 9.834, 12.292, 16.390, 19.668, 24.585, 32.780 and 49.170 kHz. These are determined by the Falcon's hardware which is why they may seem a little 'inbetween'. Other sample rates will be available with the S/PDIF (see Sound and the Falcon) including 44.1 and 48kHz.

As well as the program, you need to budget for a hard disk large enough for your music. A 4-minute song using all four tracks, for example, will require about 200Mb of disk space.

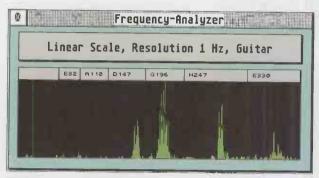
D igiTape uses a system of virtual tracks which simply means that it can access more tracks than it can playback at once – in this case 32 tracks with 8-track playback ability. Tracks may be linked in stereo pairs and edited together or singly. You can, however, only record on one or two tracks at the same time due to limitations in the Falcon's hardware.

Recording takes place in the Multitrack Recorder window. It

has the usual transport controls, a tape position counter, master volume control and nine module slots or channels. Playback, record and effect functions are assigned to these channels as required. If you need more than nine, you can hide modules and load new ones over the top – although some sort of scrolling window, perhaps, would have been a more elegant solution (or simply a window design which made better use of the screen).

The system supports eight playback lines (the signal processor supports eight time slots), two record lines (the left and right signals from the Mic input) and four effect lines. An information line above the slots tells you which modules are in use; the left and right outputs of every module are connected to the master fader.

The effects are used during playback – you can't add them during recording. At this stage, the manual points out that the



The Frequency Analyser displays the frequencies of the signal at the audio input and doubles as a guitar tuner.

performance of the system in terms of the number of playback and effects modules you can use may be limited due to (relatively) slow disk access speed and limited processor memory. Using a high sampling rate won't help, either. If this does prove a problem, the solution is to remove modules or reduce the sampling rate (although then you'll have to rerecord your music).

When recording, it's necessary to use the Input Monitor and the volume control of the Record channel to set the correct record level. This is crucial because overloading a digital input produces a distinctively horrible grunging noise.

To play back a track you need to assign a playback module to a slot. You can then run the signal through some effects modules, if you wish: the playback modules have a volume send control to determine the amount of signal passed to the effects. They also have a pre-fade button which stops the module's main volume fader affecting the output level to the effect. A Set-up file is created for each Tape which remembers the modules selected and fader positions.

As well as recording from the Mic input, you can record the left or right master output channel in order to mix down

several tracks into one. Digital bouncing, of course, obviates the noise problems associated with audio tape mixdowns.

DigiTape has a cute – OK, hideous – karaoke playback option which attempts to remove the vocals from a record. It does this by assuming that the vocals will be in the middle of the stereo position and it subtracts the right channel from the left leaving the music on a single monophonic left channel.

Of course, this will take with it anything else

panned to the centre and if the vocals are not close to the centre or if they use stereo reverb it won't work very well. Still,

## Sound and the Falcon

In the review of the 4T/FX direct-to-disk software in the August issue I questioned the quality of the output from the Falcon. My experiments with DigiTape produced similar results – namely loss of the highs and a degree of muddiness to the sound – although DigiTape's EQ module can brighten the highs and soften the lows which helps compensate a little.

To put this into perspective, I'm sure that if you heard the playback only you'd think it sounded fine. It's when you do an AB comparison with the original signal that the difference becomes apparent – and even then it's more obvious with bright and dry sounds than with full bandwidth material.

Conversations with dozens of people involved with the Falcon and direct-to-disk (bearing in mind that some have declared interests in the subject) have so far proved inconclusive. Even Atari admit that there are customers who are unhappy with the sound output despite reports of the Falcon and direct-to-disk software being used in studios.

All of which leads me to the conclusion that either I have a suspect Falcon (it was one of the very early models fitted with TOS 4.01), or some people's idea of 'CD quality' is different to others.

However, the reduced quality theory seems to be reinforced by direct-to-disk software developers themselves. Both d2d and Trade iT are producing S/PDIF digital interfaces which will connect directly to the Falcon's DSP, so bypassing the computer's internal A/D converters. While these devices do offer more than simply an alternative A/D unit, it suggests that these companies have realised that the Falcon's circuitry could be better and that there will be a demand for higher quality recording.

The Trade iT S/PDIF interface has its own A-to-D and D-to-A converters and will enable DigiTape to access frequencies of 44.1kHz for CD and 48.0kHz for DAT. It also offers direct connection to CD and DAT via optical or coaxial connectors and it will allow you to master songs directly to DAT or Minl Disk machines (heaven help us) at 16-bit stereo. It will cost around £300.

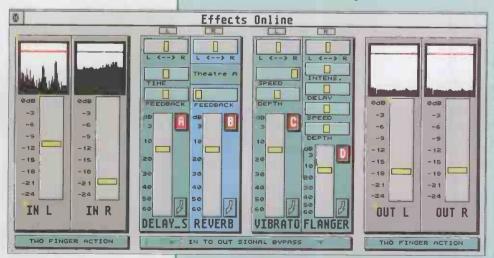
In view of the controversy surrounding this issue, we'd be very interested in hearing from anyone out there who is using a Falcon for direct-to-disk recording while we try to unearth some definitive answers on the subject. Let us know which Falcon you have, the version of TOS and what sort of results you are getting – good or bad. Ta!

## The effects rack

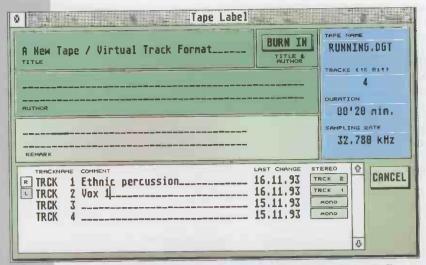
DigiTape has seven built-in software effects – Short Delay, Long Delay, Reverb (containing 12 preset types), 10-band Graphic Equaliser, Vibrato, Flanger, and a Noise Gate with Distortion. You can use them in the Effects Online page in real time or in the Recorder window during playback.

The effects are all usable although not quite on a par with dedicated units – which is to be expected. The EQ in particular is very useful.

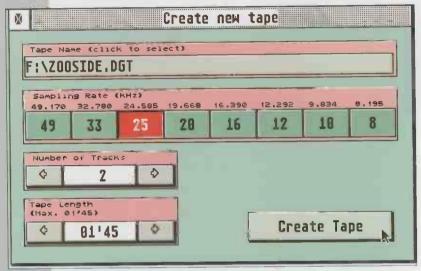
You can also load in new effect modules from disk. One, a hall-type reverb, is supplied along with detailed documentation about its construction. You'll need to be a nifty programmer to write your own modules, but this could lead to third-party module production – either as commercial entities or PD. Interesting...



The Effects Online window lets you run an incoming audio signal through various software effects modules.



The Tape Label window lets you make notes about the tracks and burn author information into the file.



When creating a new Tape you specify the sample rate, the number of tracks and the length of the recording.

it's another bullet in the armoury for crass entertainment and lazy club singers who can't be bothered to create or buy their own backing tracks.

A direct-to-disk system wouldn't be complete without some form of editing. In the Edit Tape window you can see up to two tracks at once, shuffle markers around and create blocks to perform copy, paste, delete and insert operations. You can export and import AVR files, allowing data exchange with other Atari sampling software. It's also a convenient method of saving blocks for use elsewhere in the music.

A time scale ruler above the edit windows can show time, MIDI beats or video time scales to help sync the music to whatever other format you may want to use it with. There's a snap-to-MIDI-beat function and DigiTape can output MIDI clock and Song Pointers so you can sync it to an external sequencer.

One strange omission is cuesheets. These are used in direct-to-disk software to playback sections of music. The cues only point to the area of the recording which is to be played so you can create loops and overlaps very easily without actually altering the original data – a process known as non-destructive editing.

DigiTape edits are performed on the original data which means you don't have the same flexibility as non-destructive editing and, of course, you have to be careful with your edits, backing up data before changes are made. The Effects Online Rack has separate left and right In and Out controls plus four signal processor slots into which you can load software FX modules. It processes incoming signals in real time and you can also use it to try out different effect combinations prior to

recording – although, as previously mentioned, you can't add effects during recording.

Other features include a Tape Label window where you can enter track names and comments about the song. There's a neat option to 'burn' this into the file, a useful adjunct should someone rip off your masterpiece and you need to prove authorship. There's also a Frequency Analyser which, as well as creating spikes in response to the frequencies of incoming signals, can be used as a guitar tuner. Not being the owner of a guitar, I was unable to put this to the test and I'm not sure how much use it would be to the average user. But it's there if you need it – and it does look pretty.

Even though the program is already up to v2.0, the manual is still in preliminary form, which would seem to indicate that there is still a fair bit of development to be done. In part it's an obvious translation from the German, but the rest of it seems to have been written by a native Brit. In the way of most preliminary manuals, instructions are very brief and there are no illustrations. In fact, it's only just up to the job of explaining how the program works. Registered users are promised a final draft manual but by that time they will probably have sussed out how it all works anyway.

That said, although the program is relatively easy to use, once you get into it, it's not quite as straightforward as it might be. Having to assign modules to the nine channels is a novel way of integrating the various record, playback and effect functions but it's not the most obvious. The user is entitled to better documentation, especially at this price.

t takes time to produce a complex piece of software such as DigiTape. While it's easy to understand why the developers wanted to get it on the market as quickly as possible, I suspect it will need a few more tweaks before it is seen as being complete.

You can create your own wish list; certain features will be more important to some users than others—automated mixdown, punch in, time stretching, varispeed and fades. Personally, I'd like to see non-destructive editing. But the program as it stands does

work and the updates are free.

Interestingly, the developers have also released a cut down version of the program called DigiTape Lite (£149). It has fewer tracks, generally fewer facilities and no editing functions at all.

DigiTape is the second major direct-to-disk system for the Falcon. As of writing, we await the arrival of Cubase Audio which promises MIDI sequencer and audio integration on the same computer – something the other two systems are unable to offer (although they can both sync to an external sequencer). In this respect PC direct-to-disk systems such as Session 8 (see review in our November '93 issue) offer far greater flexibility through their ability to sync with any compatible sequencer running concurrently within Windows.

However, if you don't need MIDI or if you already have a favourite sequencer running on your old ST, say, then DigiTape has real potential.





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# Morpheus

## Z-plane synthesiser

## Simon Trask listens to the evolving shape of synthesis as E-mu take sound creation to a new plane...

n recent years very few instruments have challenged the orthodoxy of sample-based synthesis, and of those probably only Korg's Wavestation has achieved mainstream success. Now E-mu, who have made a name for themselves with a series of popular sample playback modules (the Proteus range, Pro/formance, Pro/cussion, Vintage Keys), have dared to try something a bit different.

With Morpheus the company have retained the familiar subtractive synthesis architecture but re-thought the filter section. Like Korg with the Wavestation, they've also concentrated on providing a large number and wide variety of waveforms in the module's wave ROM, without excluding samples altogether. Much of Morpheus will be familiar ground to Proteus and Vintage Keys owners. In fact, despite the inclusion of the new 14-pole filters, two new Function

Morpheus allows you to assign any one of 198 filter types (including a null filter ie. no filtering) to each of the two oscillators, Primary and Secondary, which make up a Preset. In this way you can quickly create new sounds simply by trying out multiple filter types with a single source sound, or multiple source sounds with a single filter type – either way, it's a hit-ormiss process whose main virtue is speed

Perhaps sensibly, E-mu don't allow you to create your own filter frames. In fact, the filter parameters are relatively few: type, level, morph offset, filter frequency tracking, filter transform2 and filter reverse on/off (in each case with separate Primary and Secondary values). Tracking, transform2 and morphing can each be put under note-on control from a variety of modulation sources, and morphing, additionally, placed under real-time control.



Generators and an onboard effects section, you could be forgiven for thinking that Morpheus was just another E-mu module – it even comes in the same casing as Vintage Keys, though with a modified front-panel layout. Yet it has its own sonic character, and that is down to the preponderance of waveforms and the unique characteristics of the filtering.

t helps to think of a Morpheus filter as a cube, with Filter Frequency Tracking (previously Transform1) being the 'x' axis, Transform2 being the 'y' axis and Morphing being the 'z' axis, or depth (see MT's preview in the November '93 issue for a graphic depiction of this cube). Now think in terms of keyboard tracking, velocity response and note duration respectively – and you have the relationship between the 'cube' and the musical effect of the filters. At each point on the cube is a filter frame, which is a 'snapshot' of the filter parameter settings; Morpheus interpolates between these various frames in response to key, velocity and a host of other note-on and real-time modulation sources, and generates a single, composite filter frame at any given moment.

Morphing, the process which gives Morpheus its name, is the process of continuous interpolation between two filter frames on the 'z' axis. There's a lot more to this than simple filter sweeping, which involves the progression of a single cutoff point from one value to another, as Morpheus's multipole filters allow a much greater degree of control over a sound's frequency content.

The modulation matrix is where you shape dynamic control over your sounds; E-mu's modules have always been good in this department, and Morpheus is no exception. The module provides 10 note-on and 10 real-time modulation paths, and allows you to use modulators to modulate other modulators. For instance, you can modulate morphing in real time using one of the Function Generators, and control the Function Generator depth (and therefore the morphing effect) from another modulator eg. assignable MIDI controller A.

The two Function Generators are eight-segment envelopes with level, time (0-4095 milliseconds), shape, conditional jump, conditional value and conditional destination segment values for each segment. An obvious application is to create a simple multi-stage looping envelope and assign it to modulate pitch—allowing you to trigger pitch sequences from a single note. You can also create sophisticated real-time morphing effects by modulating the morphing parameter from one of these Function Generators, or create an echo effect or a multi-stage volume envelope which jumps to segment eight on note release. The possibilities are many, and are well worth exploring if you want to get the most out of Morpheus.

Another feature worth experimenting with is Loop Offset. This allows you to set your own sample-loop start point and duration for each oscillator within a Preset; in this way you can create all manner of new source sounds out of the existing ones – useful enough in itself, but even more so when you combine these new sounds with Morpheus's filtering capabilities.

Turning to the more familiar parameters, Morpheus lets you set the volume, pan position, key range, transpose amount, and coarse and fine tune amounts, and program Alt and Auxilliary AHDSR envelopes, LFOs 1 and 2, double + detune (off, 1-15), Xfade/switch settings, portmento setings, solo mode on/off and priority, sound delay, sound start, sound reverse on/off, non-transpose on/off and loop enable on/off P all per oscillator. Other Preset parameters include pitchbend range, pressure amount, controller amounts, velocity curve, keyboard tuning (Equal, Just C, Vallotti, 19-tone, Gamelan and

With Morpheus, E-mu have also introduced Hyperpresets – essentially an extension of the Preset linking found on other E-mu modules. Up to 16 Presets can be combined in split/layer configurations, allowing you create some complex, or simply big and beefy, composite sounds. Bearing in mind that even single Presets can quickly eat into Morpheus's 32-voice polyphony when you're using both oscillators and some doubling/detuning, you're not likely to be able to use too many Hyperpresets at once – they're perhaps best used individually rather than in a multi-part sequenced context.

Like other E-mu modules, Morpheus can respond on up to 16 MIDI channels at once when set to Multi receive mode, with a single Preset or Hyperpreset assigned to each channel. You then edit a Preset/Hyperpreset 'within' whichever channel

## Onboard effects

FXA: Room, Warm Room, Small Rooms 1 & 2, Halls 1-3, Chambers 1 & 2, Plates 1 & 2, Early Reflections 1-4, Reverse Early Reflection, Rain, Shimmer, Stereo Flange, Phaser, Stereo Chorus, Delay, Cross Delay, Echo.

FXB: Fuzz, Fuzz Lite, Stereo Flange, Phaser, Stereo Chorus, Delay, Cross Delay, Ring Modulator.

## Hard fax

Polyphony: 32 voices Multitimbrality: 16-part

Sample ROM: 8Mb, 242 source sound locations (Including multisound drum kits);

linear 16-bit samples, 39kHz sample playback rate

Frequency response: 20Hz-18kHz S/n ratio: 90dB

Patch memory: Internal: 128 RAM Presets, 128 ROM Presets, 128 RAM Hyperpresets; card: 128 Presets, 128 Hyperpresets

Preset architecture: fixed: one Primary and one Secondary oscillator, each with its own 14-pole morphing digital filter, AHDSR volume envelope, amplifier and stereo panner; freely assignable: one AHDSR auxiliary envelope, two LFOs and two 8-stage

Function Generators

Hyperpreset architecture: up to 16 Zones, each of which can be assigned a Preset
together with key range, velocity range, volume, pan and transposition settings; one
free-running 8-stage Function Generator; porturner and transposition settings;

free-running 8-stage Function Generator; portamento performance option LCD: 2 x 16 characters, backlit Connections: Main, Sub1 and Sub2 stereo audio paired outputs; MIDI In, Out and

Thru sockets; stereo headphones socket; data card slot Weight: 6lb 14oz

Dimensions: 1.75" (H) x 19" (W) x 8.5" (D)



is currently selected. MIDImaps, of which there are 16 (plus one stored in the battery backed RAM buffer), allow you to create 'snapshot' assignments of multiple Presets /Hyperpresets, together with volume, pan, mix, MIDI filtering, bank select and program-change map settings for each MIDI channel.

Effects assigned to the two effects processors, FXA and FXB,

overboard on effects editing either – there's only one reverb parameter, for instance – and there's no dynamic control over effects. It's worth bearing in mind that the Sub1 and Sub2 outputs can be used as effects send/returns or, alternatively, as inputs for routing other instruments via Morpheus's main stereo outs. But you can't route these sounds through the module's effects, nor through its synthesis architecture, as you



may be edited globally per MIDImap, adjusted for level and output routings (Main, Sub1, Sub2). You can also opt to route FXB into FXA, either splitting off the FXB signal as a percentage amount or routing it solely through A. FXA cannot, however, be routed through B, which means you can't, for instance, flange, phase or chorus a reverbed signal, which is a pity in my book.

The effects themselves are competent enough, but don't compete with the likes of Korg or Ensoniq for quality, variety or sheer adventurousness. E-mu haven't exactly gone

can with external audio signals on Korg's Wavestation A/D.

Each channel within a MIDImap can be assigned to Main, Sub1, FXA or FXB, or can adopt the Mix asignment of the selected Preset/Hyperpreset. However, you can't set individual effect send levels. Limiting effects assignments to the global, MIDImap level keeps things simple, and is fine for multi-part sequencing, but if you actually want to play single Presets or Hyperpresets with specific effects, then the only way to do it is to call them up as MIDImaps, which limits you to 16 onboard effected sounds.



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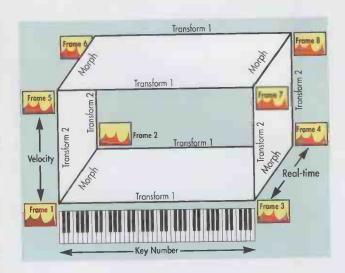
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Perhaps learning a lesson from Korg's experience with the Wavestation, E-mu have ensured that sampled instrumental sounds are present and correct on Morpheus - including the inevitable acoustic grand, a versatile electric piano, some sparkling guitars, an effectively breathy flute and a healthy number and selection of drum and percussion sounds. You could, if you wished, put together a complete demo using just Morpheus.

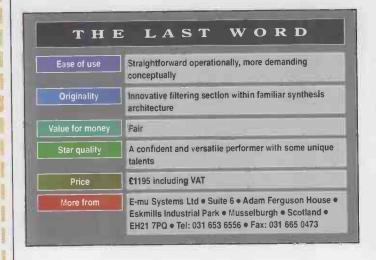
But overall this is an instrument which is geared towards creative rather than recreative synthesis, and to my mind it's all the better for it. There are some wonderful fat synthbass sounds - Morpheus has a punchy, deep, well-rounded bottom end - together with a plentiful and varied collection of full, rich pad sounds, evocative atmospheres

Overall, Morpheus's sound has great presence and energy, and achieves an intriguing and effective combination of digital and analogue, clarity and warmth (though technologically it's a purely digital instrument). Although the module doesn't scream "14-pole morphing filters" from the rooftops, its unique angle in this department does, er, filter through many of the preset sounds.

I'm not sure that morphing is quite as radical in practice as I thought it was going to be (perhaps you'd need to be able to create your own filter frames for that), but equally there's clearly plenty more potential to be wrested from Morpheus through skilled programming. Hopefully, E-mu or a third party will bring out graphically-based editing software, because the module cries out for it; the filter cube concept is itself essentially graphical in nature.

Morpheus is the sort of module that many people will want to add into an existing setup, but it's also credible and appealing for anyone just starting out. I can see it finding a niche for itself in film and TV soundtrack work alongside the Wavestation (the two instruments are actually quite different in character, but have similar strengths), and also appealing to the dance/ambient/industrial fraternity.

Despite its original approach to filtering, Morpheus comes across as an evolutionary rather than a revolutionary instrument - but it's a very appealing evolution.



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# 120XP Boom Box

subharmonic synthesiser



Photo: James Cum

## Looking for something to give you a lift at the bottom end? A boom box could be the answer. Bob Dormon asks how low can you go?

W

e've all seen those belly-dancing Coke cans gyrating in response to sound, but have you ever seen your speakers pull the same trick? Well now you can with the new dbx 120XP Subharmonic Synthesiser. The 'P' indicates that it's a professional unit – the 120X having been around for some time now – designed to produce that low, low bass that gets complaints from residents five miles away from the club it's being used in.

In fact, dbx have been making subharmonic synthesisers – boom boxes to you and me – since the late '70s, identifying the need/trend for something throbbing around the bottom end. Their use isn't confined to just DJs and clubs: in recent years the boom box has begun to infiltrate film theatres and even recording studios, making low-end rumble an acceptable component of sound, rather than a symptom of a sick turntable.

With good neighbourly relations foremost in my thoughts, I gingerly unpacked this 1U black magic box, only partially reassured by the accompanying blurb that my speakers were not about to meet their maker. Not unless I was deliberately cruel

Turning up the Subharmonics control varies the intensity of the bass synthesis, and this is used together with the two Synthesised Frequency controls which alter the subharmonic mix within their respective ranges of 24Hz-36Hz and 36Hz-56Hz. Above each of these two knobs are three LEDs (green, yellow and red) which indicate the amount of new (subharmonic) signal being generated for that range.

It's all dependent on your source material, of course; if there's no bass, there's no pretty lights — and therefore no subharmonic activity. But you'd be surprised by what signals have a low enough content to bring the 120XP to life. Connecting up my video recorder, I discovered that not only did the predictable sonic booms and gut-wrenching growls in a movie like *Die Hard* elicit a response, but that even the effect on the human voice was quite marked (in this case the dulcet tones of lan 'Lovejoy' McShane).

From a musical perspective, reggae has much to offer at the bass end, and as you might imagine produced lots of pretty lights on the front panel and a deep, dramatic boom from the speakers. In fact, the effect was a little too dramatic and I found a bit of tweaking of the two synthesised frequency pots was necessary so that instead of the exaggerated boom, you get punch with depth.

Of the remaining controls – LF Boost works rather like the 'loudness' switch on many domestic hi-fi amps. It's quite independent of the others, so you really can tailor the whole of this narrow bass/sub-bass band of frequencies to suit your needs. Sub-Woofer controls a separate output for feeding a

(you guessed it...) sub-woofer system and switches at the rear allow you to select crossover frequencies of 80Hz or 120Hz. The main stereo output can also be switched – for full range or HF only.

The great thing about this unit is that the audio spectrum above the working range remains completely uncoloured by the processing. There's no muddying of the low-mid range: it's bass, the whole bass and nothing but the bass you're dealing with. This, apparently, is thanks to the 'Waveform Modelling' intelligent processing system employed by the dbx 120XP to produce bass notes below those in your source material.

Not having a sub-bass set-up, I fed the separate sub-woofer output into a bass amp and found this generally worked well. Having the opportunity to tap off this signal into equipment capable of operating at these frequencies is definitely the right approach as far as I'm concerned – it allows you to take full advantage of the audio range of the device.

Comparing the dry/treated signals by means of the Bypass switch reveals sounds that were once faint background whispers suddenly brought to fore, as if at last recovering from their shyness.

I was also impressed by the quietness of the 120XP in operation, and the degree of control it offers so that just the right amount of punch – or roundness – may be added without unduly affecting the overall mix.

I have to say, I haven't been a great fan of the mixing on a lot of dance music. On most desks the EQ doesn't deliver in the range that really cuts it. The dbx 120XP is, I'd say, the missing link between bass and bottom end, and I'm sure they'll all live very happily together.

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## Roland

P-55

piano module

A piano for all seasons. Ian Waugh tries Pythagorean Temperament and ends up flat Baroque...



here are some things you can never have enough of. Polyphony is one of them. This is never more true than when writing music with a piano part. Play a left hand chord, an arpeggio or two, stomp on the sustain pedal and there goes 20 notes straight away.

Or perhaps you want a bigger range of piano sounds than your current equipment offers. Some synths have very distinctive pianos – the M1 is a firm favourite with house musicians – and variety, as they say, is the spice of life. If you find yourself in either of these situations, it may well be worth considering a separate piano module. Such as the Roland P-55.

There have been piano modules before – and there will no doubt be piano modules again – but the P-55 has several particularly interesting features which definitely stand it out from the crowd. First of all, it's a member of the Sound Canvas family – it says so on the front panel. When it receives a GM System On or GS Reset MIDI message it goes into GM mode. No, it doesn't have the usual range of GM sounds but it does

respond to the GM Program and Bank Change messages which select GM piano sounds and GS variation tone piano sounds. We'll look at its use with GM modules in a minute.

Secondly, it responds to Damper (Control 64), Sostenuto (Control 66) and Soft (Control 67) MIDI messages, and if you're nimble on your feet you can practise half-pedalling techniques. These help make it more like a real piano and are features which pianists will appreciate.

It also has several other 'real piano' attributes such as Stretch Tuning. In contrast with true equal temperament, the higher notes on an acoustic piano are normally tuned slightly higher in pitch and the lower notes tuned slightly lower. The P-55 has three Stretch Tuning settings to help simulate this.

another half-width module if you wish, using the optional RAD-50 has several stand it out canvas heritage – a nice orange 3-digit LED and orange indicator lights.

There are eight parameter indicators – each containing two sets of parameters, the operative one depending on the

There are eight parameter indicators – each containing two sets of parameters, the operative one depending on the parameter mode (stick with it!) and eight pairs of up/down parameter buttons for altering them. There's a volume control and a headphone socket on the front, and stereo audio Ins and Outs on the back along with MIDI In, Out and Thru sockets. Power is via a mains adaptor.

Finally, to help set the instrument up to suit your style of

playing and the keyboard you are using, there are nine

velocity curves. These determine how the volume and timbre

respond to the velocity information. If you're more a synth

player than a piano player, you may want to select a curve

which makes the notes in the weaker lower range of the

keyboard louder using less velocity. Looking just at these

aspects of the P-55, you can see that Roland has attempted to

incorporate as many performance features into the P-55 as

possible. And there's more to come. But let's look at the basic

It's a half rack unit and can be rack mounted, along with

**S** o let's try a few sounds. There are 32 of them, based on 4Mb of piano waveforms including some from the SR-JV-80 series and the latest HP models. The range covers acoustic and electric pianos including the RD-1000 and the harpsichord from the C-50. There are also a couple of Vibraphones, Celesta and Clavi.

I'm tempted to say that there is something here for everyone but that's to ignore the utter individuality of MT readers (gush – MT reader). However, you can tweak the sounds in several ways to accommodate your own pianistic perversities. For example, there's the Brilliance control. Give it a boost for an up-front rock 'n' roll piano. Turn it down for a moody sotto voice classical piano effect.

The P-55 also has eight reverb and nine chorus effects with adjustable depth. They include room, hall and plate reverb, delay, panning delay, four types of chorus, flanger and short delay feedback. They do make a considerable difference to the sound.

You can also add a sub-instrument to the main instrument – which is another way of saying you can play two sounds at once. And it's possible to give them different volume levels and detune them – more scope for customisation.

Pan position of the sounds can also be adjusted and there's a fascinating random pan setting which causes the sound to move randomly back and forth with each note played.

For the experimenter, there are six alternative tunings – Equal, Just, Mean Tone, Werkmeister, Kirnberger and

## Pianos on the table

The P-55 has two instrument tables. The first gives you access to all 32 sounds using Program Change numbers.

The second uses Program Numbers 1-9 to select GM equivalent piano sounds and Number 12 to select a vibraphone. It also responds to Bank Change messages to select variation tones used in Roland's GS system:

Program Number	Control Number	Name
1	0	Grand Piano 1
	8	Acoustic Piano 1
	16	Grand Piano 2
2	0	Acoustic Piano 2
	8	Acoustic Piano 3
3	0	SA Piano 1
4	0	Honky Tonk 1
5	0	Rhodes
	8	Pop Rhodes
	24	E Grand 1
6	0	E Piano 1
	8	E Piano 3
7	0	Harpsichord 1
	8	Harpsichord 2
8	0	Clavi
9	0	Celesta
12	0	Vibraphone 1





Pythagorean Temperaments. It's nice to see these on an instrument even if they tend not to get used very often. Anyone out there use alternative tunings? Drop us a line and tell us about it. There's also a Baroque Pitch setting which sets A4 to 415Hz rather than the 440Hz we use today. Ideal for evenings with your baroque ensemble.

If you do much tweaking you will, naturally, want to hang onto your new sounds – and on the P-55 you can, by saving them into the 16 User Patches. These can be selected via MIDI, too.

**S** o how would the P-55 fit into your setup? It's 3-part multitimbral – just in case you compose piano trios – and 28-voice polyphonic. As ever, the definition of voice causes confusion. Most reasonable people would equate voice with note, but more than one musical instrument company, including Roland, takes it to be a single sound element.

The pianos, therefore, use between one and four voices which could cut the polyphony down to seven notes! Add a sub-instrument and you're well on the way to three-note chords – and you'd better lay off the sustain pedal, too.

If you really want to use the multi-voice sounds, a stacking mode lets you connect up to eight P-55s for a maximum polyphony of 224 notes. Or 28 notes if you pull out all the artillery! In practise, you will probably use 2- or 3-voice sounds, the 1-voicers being a touch on the thin side, so you'll be looking at an average polyphony of 10 to 14 notes.

The P-55 could well appeal to people with an existing GM module. Many GM units, however, are unable to mute individual parts and so respond to information on all 16 MIDI channels. In such cases, the P-55 and the GM unit would play the piano part together — not an ideal situation. Some GM units, however, such as the Roland Sound Canvas Mk II can mute parts, in which case everything would be hunky dory. Check your GM unit's manual carefully, because some allow you to mute parts using SysEx messages. Speaking of which, you can also tweak the P-55's FX parameters via SysEx, making it an excellent companion for one of the high-end computer sequencers such as Cubase or Notator.

The manual looks excellent and contains lots of photographs of the various parts of the box along with drawings of hands and fingers pushing buttons. It contains all the info you need but it's a very dry read and not, perhaps, as accessible as it could be. It's a shame really, coming as it does after a press conference at Heathrow when both Roland's UK MD and the Japanese Corporation President admitted that manuals could be better. I'm still amazed that after all these years, foreign companies (and I'm not singling Roland out here by any means) still refuse to run their manuals past a native English musician and writer who knows his job.

The only other slight gripe – more an observation, really – is that some of the buttons have dual functions depending on the mode you're in. The alternative would be more buttons or a menu system, neither of which would appear practical on a unit this size. Although if it had an LCD like the Sound Canvas...

The P-55 is a rather neat and desirable unit, well suited to a variety of situations. Given its wide range of features, I suspect it will appeal to a wide range of users and at the price it's going to be a tough act to beat.

тне	LAST WORD	
Ease of use	It's plug in and go but you must read the manual for the tweaks	
Originality	An original collection, if not an original instrument	
Value for money	Excellent range of features at the price	
Star quality	Likely to be much in demand	
Price	£469. Roland is also bundling the P-55 with the A-30 keyboard (normally £535) for £799	
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## Lowrie Woolf Associates Ltd



# SeqWin v2/MultiMedia

## for PC Windows 3.1

# Affordable multimedia – now. Ian Waugh sings for you covered in SeqWin's...

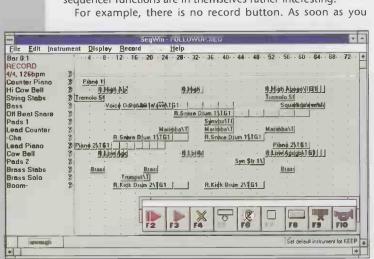
fter reading so much about multimedia over the past few months – or past few years if you're real hip to the groove – you may be wondering where it's all going to end. On the other hand, you may be wondering when it's all going to start. When are we going to see affordable tools which let the average user put together successful music, sound and graphics production?

SeqWin v2/MultiMedia could be the answer. According to the designers it's intended for first-time PC users wanting to get started in MIDI, and ready to be hooked into multimedia.

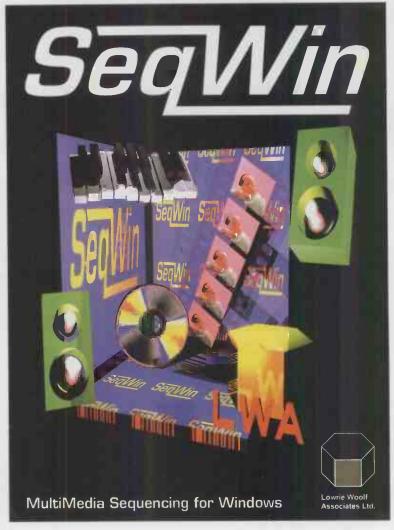
Basic operation is quite simple but there are a wealth of options and facilities lurking beneath the interface. SeqWin's main musical unit is the 'phrase'. These appear on the main edit screen as rectangular bars — a system not unlike Cubase's Arrange page. Interestingly, the manufacturers swear they had the idea first. But whatever, it will come as welcome news to anyone already sold on this method of working.

The primary difference is that phrases are not limited to MIDI data. They can also hold instructions to play digital audio wave samples (sounds in Window's .WAV format), video files (in Window's .AVI format), a CD track (assuming you have a CD-ROM connected), and even a MIDI file directly from disk.

I'd normally gloss over basic sequencer functions in a review such as this in order to concentrate on the more interesting individual aspects of the program, but SeqWin's sequencer functions are in themselves rather interesting.



SeqWin main musical unit is the phrase which you can drag around the screen to create a song.



press Play, the program goes into record mode. There's no danger of recording over an existing phrase as the new recording appears in its own track at the top of the screen. After recording, you decide whether to keep it or not.

You can cut, copy, paste, clone and do all the usual manipulatory functions with phrases in order to construct your song. Most of these functions are accomplished with the left and right mouse buttons in combination with the position of the pointer in relation to the phrase. The cursor changes shape to let you know what options are available.

Editing is via a grid page or a very simple notation display – just enough to show you the pitch and position of the notes. In addition, there's a whole range of tools housed in three sets of windows – Toolbox, Switch Box and Palette – with a total of 45 icons covering most of the editing functions you're likely to need.

One of SeqWin's most interesting features is the way it handles sounds. The idea is to let you select sounds by name rather than by Program Change number. Certain other sequencers do this to an extent, but SeqWin takes it considerably further.

When installing SeqWin, you can load a number of instrument maps; in fact, you must load at least one map otherwise the program won't let you continue the installation procedure. 30 maps are supplied including seven drum maps,

## What you need

SeqWin requires an IBM PC compatible running Windows 3.1 or later, 2Mb or RAM and a VGA (640 x 480) display or better. The documentation doesn't state a minimum PC spec such as a 386 or 486. The review software was tested on a fairly high-end 486 running at 66MHz – although any multimedia PC system which doesn't fall over when playing MIDI, audio or video should do the job.

Anyone considering the purchase of a PC for music or multimedia shouldn't really be looking at anything less than a 486, running at 33MHz or more. Multimedia is very processor intensive, and it has come to light recently that some sequencers display timing problems when running on 386 machines — and even the slower 486s. A 486 is not now much more expensive than a 386, typically around £150.

If you want to play digital audio files you'll also need a suitable sound card. To play video clips you will need Video for Windows which is supplied with most video cards although a Trial version with playback only is freely available. Obviously, you'll also need a CD-ROM to play CD audio files.

maps for the Ad Lib and SoundBlaster cards, General MIDI and Roland's GS devices and Yamaha's PSS range of portable keyboards.

An instrument map is basically a list of instrument names and their associated Program Change numbers. However, they also contain the MIDI channels to which they are assigned and the PC Port to which they are connected. You can assign a default sound to a recording, allowing you to bang away at a piano part, for example. You can also assign a sound to a phrase after recording by scrolling through the list in your instrument map.

The sounds are arranged alphabetically, which is useful. You can also view the names by description via a list of similar instruments such as pianos or strings. If you load a file which contains different instruments to those in the current map, SeqWin will find replacements based on the instrument descriptions. Again, this is very useful.

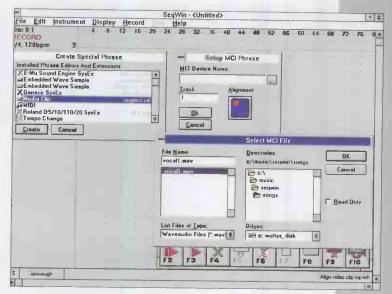
It's also possible to add and amend instruments if your setup changes. This involves entering a name, a description (an instrument group such as Piano, Woodwind, Ethnic and so on) and the instrument definition – ie. the MIDI Driver, the MIDI channels it can use, transpose and velocity values and so on. This is a very powerful feature indeed and far more sophisticated than merely linking program names with program numbers. That said, it may well seem rather daunting to a beginner trying to set it up.

K, let's get to the multimedia part of the program. SeqWin lets you create phrases containing multimedia 'triggers' using the Create Special Phrase option. These include adding an embedded wave sample, media clip (from an audio CD or video) or a tempo change – the latter placed at the top of the arrangement.

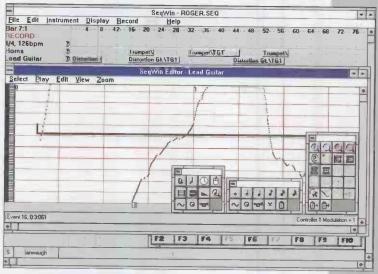
To use a multimedia file you simply use the selector to browse through your disc until you find the file you want. There's no need to enter any tortuous MCI commands. You can copy, move and clone these phrases just like any other phrase and integrate them with your MIDI sequence. Wave samples may be recorded in real time; with a good quality sound card you could, for example record a vocal over a MIDI backing.

There are a range of simple editing facilities for .WAV files such as filtering and adding echo, but it's not possible to cut and paste the actual sample itself.

Of course, when combining MIDI with video and audio in this way, you have to remember the limitations of your PC system. High quality samples require lots of memory and if a video file contains audio data there will be a conflict between it and the sample file. Also, these phrases are timed in minutes and seconds unlike MIDI data which runs in bars and beats. You need to be aware of this if you think you may want to alter the tempo of a song at a later date.



You can create phrases to play CDs and trigger digital audio and video clips, too.

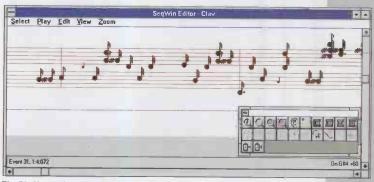


The grid editor's three tool boxes against a backdrop of a lead guitar part with squadrillions of Modulation data.

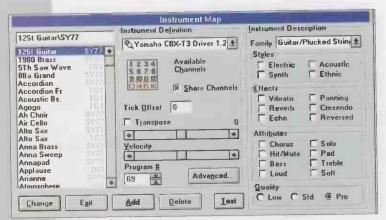
**S** eqWin has a host of interesting extra functions designed to make life easy. For example, it saves your work automatically – allowing you to specify how often this takes place, or whether the function is switched off altogether. Also, after quitting and booting up again, it will offer you the last unsaved file you were working on.

The program can be extended via Phrase Extension modules so you can sequence different types of information. The main ones such as MIDI, digital audio, CD playback and video are all supplied, of course, but it's nice to know the system may be further expanded.

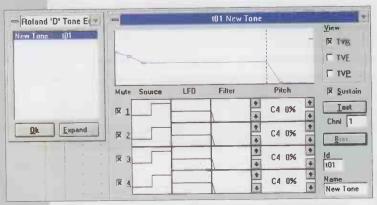
SeqWin also supports simple System Exclusive editors. Two are supplied with the program – for the E-mu Sound Engine and the Roland D series. These are actually Windows DLLs >



The Big Notes display of SeqWin's Notation editor.



SeqWin's sophisticated Instrument Map recognises sounds based on name, definition and description.



SeqWin even supports voice editors, written as Windows DLL applications.

➤ (small independent programs) and the enthusiastic Windows programmer with a knowledge of C can write his/her own. Details are supplied in the Help file.

A whole menu is devoted to changing the colours and fonts of SeqWin's various windows and displays. Again, it's nice to be able to customise, but I do think this function would be better hidden away behind a single menu option.

The manual is very informative but a little techy in places and has no index. It could be arranged a little better, too. Raw beginners will have to pore through it slowly if they are to avail themselves of the info and advice. But pore through it they must: despite the on-screen help, this is a program that takes a little getting used to.

And for all its good, nay, excellent points, there a few aspects which could be improved – such as the addition of a count-in or pre-roll facility. Also, although you can alter the size of the grid on the main screen, using a setting of less than four bars causes the bar numbers to squash up. You can't actually zoom in on the phrases, either, which is a nuisance, especially as the size of one and two-bar phrases makes them rather awkward to arrange.



SeqWin has a .WAV file editor with filters and the ability to add echo.

Although there is a Setup file which contains lots of default settings, there are several parameters it doesn't save such as the settings for converting MIDI files. SeqWin has a myriad of options for loading and saving MIDI files and while these will be useful to some users, the majority simply want to load or save the things. A facility to call up these options in an advanced setup window would help avoid possible confusion.

Also, in spite of the range of options, the manual doesn't tell you which to select to save in Format 0 or 1. Neither does SeqWin support MIDI Song Position Pointers or MIDI Time Code. This won't be much of a loss to most users, but MTC is sometimes used to sync internal programs running concurrently within Windows.

OK, so I'm whinging a bit. But these are all thoughts which came to mind while using the program. Although the

## SeqWin - the sequel

SeqWin v2/MultiMedia is based on the first version of SeqWin which has been around for a year or so, and the latest version has a host of new facilities. If you don't want the multImedia hooks you can buy the straight sequencing package and save a few quid. However, SeqWin v2/MultIMedia also comes with a piece of software called MIDI Master Plus which lets you use multiple Windows applications at the same time with both MIDI playback and record. It also lets you route messages between programs so you could, for example, channel the output from an accompaniment generator directly to your sequencer.

Oddly, there is no direct reference to MIDI Master Plus in the manual at all. You have to look at the installation Help file and open Windows' Drivers panel, load the driver and explore its Help file. I must confess I didn't get this working quite as easily or as well as I had hoped. Some MIDI programs didn't seem to like it, but then PCs are a bugger to configure anyway.

For the sake of saving a few quid, there seems little point in *not* going for the Multimedia version.

designers make no claims for SeqWin being a professional sequencer, it could certainly be made more 'pro' by a little extra attention being paid to the interface. This would make it easier for beginners, too.

SeqWin is quite a sophisticated piece of software and requires a corresponding degree of knowledge and ability from the user – not only to set it up but also to get the most out of it.

It is, however, a multimedia sequencer in every sense of the word and that will undoubtedly be its main appeal. Anyone involved with presentation work would certainly do well to check it out. For the aspiring muso armed with a video card, there seems no reason why they could not combine sound and vision to produce an acceptable music video – although I doubt if it's going to worry Steven Spielberg.

SeqWin is an excellent product at the price. It's great fun and it brings together sound and vision in a way which would have been beyond our means only a couple of years ago.



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0	MC	NO ,	STE	REO
8-bit comparison	AZTECH SOUND GALAXY 8X II	CREATIVE SOUND BLASTER VERSION 2 0	CREATIVE SOUND BLASTER PRO II	AZTECH SOUND GALAXY NX PRO EXTRA
No OF Sound STANDARDS	2	2	3	5
ApLie				
Sound Blaster Version 2				
Sound Blaster Pro H				
COVOX SPEECH THING				
OISNEY SOUND SOURCE				
FM SYMTHESISER - OPLZ				
FM SYNTHESISER - OPL3				
MANUAL VOLUME CONTROL	•			•
DIGITAL SOFTWARE VOLUME CONTROL			8 STEPS	16 STEPS
DIGITAL BASS & TREBLE CONTROL				
SAMPLING RATE, RECORDING UP TO:	23KHz	15KHz	44.1KHz	44.1KHz
SAMPLING RATE, PLAYBACK UP TO:	44.1KHz	44.1KHz	44.1 KHz	44.1KHz
GAME PORT, WITH MIDI OPTION		•	•	•
DYNAMIC FILTERING FOR BETTER SOUND				•
CD Autio In	•			•
GAN USE MICROPHONE AND CD DURING				
DIGITAL PLAYBACK	•			•
SMT BOARD FOR BETTER RELIABILITY	•			•
FREE SPEAKERS	•			•
CD-ROM INTERFACE (AT-Bus)				
PANASONIC INTERFACE				•
MITSUMI INTERFACE				•
SONY INTERFACE  CD-ROM INTERFACE (SCS1)				OPTION
MICROPHONE AGC AMPLIFIES			-	OPTION
STEREO MICROPHONE INPUT	•	- 1	•	•
SOFTWARE SELECTABLE IRQ. DMA &				•
ADDRESS SETTING CONFIGURATION		- 1	_	
RETAINED WHEN POWER OFF			-	
MIXER SUPPORT FROM MORE THAM				
ONE SOURCE DURING RECORDING	•			
BUILT-IN AMPLIFIER	•	•	•	•
STERED LINES IN AND OUT		1		•

46		S	TERE	0	
16-bit comparison	AZTECH SOUND BALAXY NX PRO 16	AZTECH SOUND GALAXY BASIC 16	CREATIVE SOUND BLASTER 18 ASP	AZTECH BUSINESS AUDIO BOARD	MICROSOF MISOFT WINDOWS SOUND SYSTEM
NO OF SOUND STANDARDS	6	6	2	2	1
ADLIB					
SOUND BLASTER VERSION 2					
Sound Blaster Pro.II					}
MICROSOFT WINDOWS SOUND SYSTEM					
GOVOX SPEECH THING					
DISNEY SOUND SOURCE					
FM SYNTHESISER - OPL3					
OIGITAL SOFTWARE VOLUME CONTROL			•		
DIGITAL BASS & TREBLE CONTROL					
CD QUALITY SAMPLING RATE, RECORD & PLAYBACK UP TO:	44.1KHz	44.1KHz	44.1KHz	44.1KHz	44.1KH2
GAME PORT, WITH MID! OPTION					
DYNAMIC FILTERING FOR BETTER SOUND			•		
CID AUDIO IN					
CAN USE MICROPHONE AND CD DURING DIGITAL PLAYBACK	•	•	•	•	
CD-ROM INTERFACE (AT-BUS)					
PANASONIC INTERFACE		•			
MITSUMI INTERFACE	•	•			
SONY INTERFACE	OPTION	OPTION		OPTION	
CD-ROM INTERFACE (SCSI)	OPTION			OPTION	
MICROPHONE AGC AMPLIFIER	•				
STEREO MICROPHONE INPUT					
SOFTWARE SELECTABLE IRQ, DMA & AUDRESS SETTING CONFIGURATION RUTAL TO WHE POWER OFF					
MIXER SUPPORT FROM MORE THAN ONE SOURCE DURING RECORDING	•			•	
OPTION FOR UPCPARE TO 16-BIT WAVE TAGE, SYSTHESIS					
STEREO LINES IN AND OUT					

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  Software Configuration Settings in Eeprom

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## 16-bit STEREO

### 2 SOUND STANDARDS



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# SHORTCUTS

### GOODMANS

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I've lost count of the number of times I've been stuck at traffic lights when a large throaty Ford XR pulls up next to me with three 17-year-old, gelled-up lads leering out and a solid 120bpm vibrating through the chassis like a hammer drill. As they speed off ahead the last thing I

volume, bass, treble and power controls – situated on just one of the speakers. Connecting them is a simple matter of plugging one speaker into the mains and then connecting the speakers together. The output of your keyboard – or whatever – is taken via the headphone socket and connected to one speaker using the lead supplied. You'll need an additional adaptor for this if your headphone socket is the larger 1/4" type.

I tried the speakers with an assortment synthesisers and keyboards with built-in

ments. The rather vague quoted music power of 80 watts is in practice rather more than you'll get, but the speakers are certainly loud enough for home use and probably pack just about enough punch for a gig in your local (if it's a small one). But really, this isn't the purpose for which they are are designed. These are convenience speakers intended for practising and pre-production work (where a full mixing and monitoring system would be inappropriate) and with the new all-inone computer music systems such as Yamaha's Hello! Music! (MT review, November '93). And what the hell... you can even plug them into your Walkman if you like!

Goodmans have taken an original idea, added a few quality ingredients and intentionally or not, produced an attractive and flexible monitoring system which most musicians should find of use. Andrew Jones

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see before being engulfed in a cloud of blue smoke is the word 'Goodmans' on the rear parcel-shelf speakers.

Far from being 'just' in-car speaker manufacturers, Goodmans have been involved in the manufacture of a range of audio products for nearly 70 years now, and though the company hasn't held onto much of its former reputation for producing rather conservative, high-fidelity separates, they do still manufacture hi-fi loudspeakers and those tiny speakers for connecting up to your walkman.

Their new 'active' speaker range is a progression of the latter, aimed at the CD generation of personal stereo owners, but also perfectly suitable for connecting up to keyboards and synthesisers – and the latest generation of multimedia computer add-ons

The Active 75 speakers reviewed here sit at the top of a range of three models, and feature built-in amplification and

speakers and found that the 75s out-performed each of them by some margin. Being able to adjust the tonal characteristics of the sound – via the bass and treble controls – is obviously an advantage here, and I found the tonal range sufficiently wide to produce some pretty interesting results (not least of which was how much noise the average synth generates!).

The reproduction on most sounds was crystal clear and, though clearly tailored to avoid troublesome frequencies at the bottom end, surprisingly full and rich. That said, some of the denser sub-bass presets did cause the speakers to groan and grumble under the weight of the sound, but this is to be expected and can be corrected using the bass control.

If the speakers are used as replacements for the built-in keyboard speakers they will, of course, offer improved stereo separation – and perhaps bring a little extra definition to the sound – particularly where this includes percussive instru-

TIME + SPACE

### Dance/ Industrial II

sample CD

To many people, the words 'industrial music' conjure up images of leather-clad, chainsaw-wielding, anvil-bashing serial killers strutting around mountains of samplers, screaming distorted lyrics to a bunch of wacked-out Euro kids in a disused warehouse in Belgium. Others, perhaps acquainted with East West's acclaimed Dance /Industrial sample CD released last year, may hold a rather different view.

True, there were a variety of sounds which could only have been produced using factory floor machinery, but for the most part, the CD boasted an impressive collection of thrusting, dynamic rhythmic loops which illustrated only too well how effective – and useful – these ambient, industrial sounds can be when programmed sympathetically.



The sequel, Dance/Industrial II just released by Time + Space, picks up where the first CD left off, but broadens its appeal to include an even greater variety of loops and effects. A double-CD package, there are 154 loops in all, spread across both disks and listed with their BPM figures in the accompanying booklet.

The first CD contains the majority of harder-edged loops, suited to the more uncompromising styles of industrial dance, with droning machines and throbbing atmospheres providing the menace, and enormous basses and sparkling snares maintaining the relentless beat. Chaotic choice cuts include the techy Number 9 (no names here, just numbers) with its Deutscher beat and walls of sound entering loop by nasty loop. Number 29 also stands out with its backdrop of screaming crowds and crashing rhythmic sequence.

Many of the rhythmic structures are fairly recognisable, but have been strengthened and padded out with the addition of dynamic samples, such as booming basses, and a variety of other sounds – the precise origin of which one can only speculate on.

Also included on the first CD but more prevalent on the second, are loops with that distinctive American flavour one immediately associates with rap and hip hop. Whether or not you use them in this context is, of course, up to you; with the adoption of the popular loop and partial method where the rhythm loops are followed by the ingredient samples, it's possible to produce your own loops using the same sounds or the same loops minus any sounds you don't like. This brings a far greater level of flexibility to the whole process and allows you to customise breaks to preserve a degree of individuality. But that's not all: a set of MIDI file rhythm patterns are also included with the package, so it's even easier to 'tailor' a pattern to suit a particular track.

Of course, the bottom line with any sample CD is how inspirational it is. All I can say is after half an hour with this CD, I found my head brimming with ideas and I was even considering changing the drum tracks on a couple of songs I've been working on in favour of two included here. Ideal for metal bashers, technofiends, rappers and anyone in need of a bit of attitude. And at a touch under £60 for two CDs and the MIDI file disk, great value too. Andrew Jones

Price: £59.95

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### BRIDGE RECORDING COMPANY

### Charlie Morgan's Master Drums

sample CD

Question: what have all this lot got in common? Kate Bush, Tina Turner, Elton John, George Michael, Beverly Craven... and no, I'm not referring to the fact that their all rampantly rich and filthily famous. The answer is that a certain sticksman by the name of Charlie Morgan has played drums for all of them.

In the rough, tough world of session drumming our Charlie is tougher than most – so tough, in fact, that Elton recently hauled him off around the world on tour. Before he boarded the plane for megastardom, however, Charlie popped into London's Townhouse Studios to record this Master Drums sample CD.

The result is over 100 samples of carefully chosen, tightly played and smartly recorded drum loops, along with individual hits and a click-track intro for each sample.

Though Charlie has played on a wide range of pop and rock records, the grooves on offer here are, perhaps surprisingly, hip. Many of them would lend themselves to the kind of rap, hip hop or house tracks which normally rely on loops sampled off vinyl. And that, indeed, was Charlie's intention.

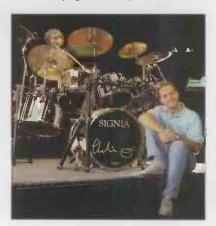
Aside from the playing, which is uniformly tight without ever becoming 'metronomic', the most impressive thing about the disc is the care with which it's presented. Every pattern contains four bars of the groove, stop/start sections

and a couple of neat fills, and each loop is repeated at different tempi so that no matter what kind of track you're working on, you should find something that more or less fits the bill, time-wise.

There are no cymbal crashes to decay, and then abruptly cut off at the loop point; if you want to add cymbals, there are individual samples of ride and hi-hat loops elsewhere on the disc. I did find myself becoming a little weary at the constant use of the two drum kits (Premier Soundwave and XPK) throughout the CD, though of course this occurs only when listening to the CD in its entirety – which wouldn't be the case for listeners to individual loops selected for your music.

The recording quality is fine – in terms of noise and usability. Though there is no obvious acoustic ambience – the samples were recorded completely dry - the character of the drums comes shining through and provides an object lesson in drum miking. Charlie's playing is an education, too - particularly for non-drummers. If you've been relying on machine-programmed drum tracks up to now, you really owe it to yourself to find out what a real drummer can do. If you only use this disc as a means of learning more about what kicks that favourite groove along and apply this to your own programming, it'll be worth it.

In addition to providing the foundation for tracks, these loops could be twisted and turned every which way by anyone with a passion for sample editing. Alternatively, gate out a particular sound



and use it to trigger, say, a bassline or other percussion sample. Above all, get Charlie Morgan to inject a little of his impeccable feel into your tracks – without having to be rich, famous, or even particularly clever. *Colin Lemmon* 

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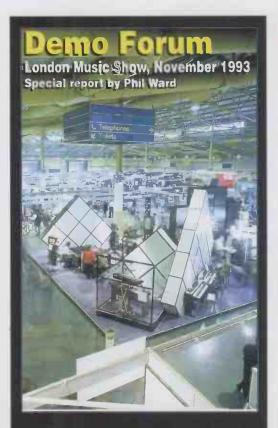
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# dare!

Keep those tapes coming to Dare!, MT, Alexander House, Forehill, Ely, Cambs CB7 4AF.



OK, which bastard stole the first tape? I was looking forward to playing Teknik's '2000' - a stately slab of techno flourishes and boxy beats - but just before the Forum convened on 27th November at the London Music Show somebody swiped it. Our apologies therefore go to Jonathan Russell, the brains behind Teknik, who accepted his misfortune with a philosophical shrug and the inevitable acknowledgement that he hadn't brought a spare copy along. Still, I'm certain we haven't heard the last from Jonathan.

Other than that, our Saturday panel – comprising producer Ian Catt, Meat Beat Manifesto's Jack Dangers and music journalist Andrew Jones (who reviews demos every month in Home & Studio Recording so boy, does he know what it's like) – had a good time and voted 'Believe In' by Mesh as worthy of the free QR10 generously donated by Yamaha. One of two QR10s, in fact, because another one went on Sunday to Woob for the ambient epic 'Up The Garden Path' – clearly not somewhere you could lead the panel as it included ambient maestro Mixmaster Morris himself, along with Colin Newman, founder member of new wave legends Wire and now running his own label (see page 29), and a repeat of Andrew Jones.

My sincerest thanks to all the panellists for their invaluable insights, and to the artists whose well-above-average efforts ensured that, as usual, there was much to admire, inspire and discuss.

### Saturday 27th November

### **Bass Odyssey**

'E-Space'

Ensoniq ESQ1; Atari 1040ST; Steinberg Pro 24; Akai S950, S1000 (4Mb); Fostex 2016 line mixer; Alesis Midiverb III; Aiwa XD-S260 DAT, NSX-DS hi-fi.

To prove the point that, as far as MT is concerned, demos do not have to come laden with hooks, riffs or even melodies, 'E-Space' grooves along quite happily for a good six or seven minutes without any of

them - and you certainly wouldn't get away with that on Juke Box Jury. Jack out of Meat Beat Manifesto was especially interested in this track, combining as it does layered drum loops and synth sounds with a strong dub influence. But what was missing was the kind of tumult of found sounds which is a Meat Beat trademark; in other words, the rhythms were too interesting to be pure trance, yet not involving enough. Andrew Jones particularly liked it, though, feeling that it built and

sustained a mood throughout despite minimal components. Like I say, who needs hooks?

Contact: Jamie Ash Meakes, 081 428 0863 (Harrow)

### Teknik '2000'

Akai S1000 (10Mb); Roland U220, R8-M, Alpha Juno 2, Juno 106, SH101, TB303; Yamaha YS100; Atari Mega ST (2.5Mb); Cubase v3.0; Studiomaster Sessionmix Gold 16:2 mixer; Boss SE50 multi-FX; Alesis Midiverb III, Microverb III; BBE Sonic

> Maximiser; Sony DTC55ES DAT; recorded at Out Of The Blue, Manchester

Teknik has featured in these pages no less than four times in the last year or so, for which I make no apologies at all. And given the association with 'Dare' and its predecessor 'Demo Takes', it makes it all the more ironic that the panel were actually unable to hear this track. A billowing analogue phrase ushers in rigid but not stroke-inducing beats, and



# WINNER

### Mesh

'Believe In'

Emax II (keyboard), Emax II (rackmount); Akai S950 (expanded); Roland Juno 106, Jupiter 6, SH-101, MC202, MKS30, MKS50, TB303, R8, TR727; Korg Wavestation; Chase Bit One; Casio CZ101, MG-510 MIDI guitar, DAR-100 DAT; Sequential Circuits Pro One; Oberheim Matrix 1000; E-mu Vintage Keys; Yamaha TG77, TG55, TG33, TX7, REX-50; Boss DR-660, SE-50, NS-50, CL-50; Cheetah MDR-16; BBC UMI; Atari Dr.Ts KCS; Creator; Groove MIDI-CV; Seck 18:8:2 mixer; Fostex R8; Sony DTC55ES DAT; Shure SM58 mic; Alesis Quadraverb; ART Multiverb LT.

Apparently, according to Mesh (who were reviewed in our November issue), "Chrysalis Records rang us up the day the magazine came out and asked if we'd send

them a tape". Well, there you go. Whether there was a representative of that august organisation present at the Forum, I don't know, but if there was, he or indeed she will have felt the full force of Mesh's hardware. 'Believe In' is a large, expansive song with many moving parts and a good deal of steam emanating from the engine room. Cynical as we may be about hooks, the chorus probably swung it for the lads, being a bit of an epic culled from the Depeche Mode academy of music and drama. Jolly good, as they say, show.

Contact: Neil, 0272 671067/601759 (Bristol)



the whole thing ebbs and flows with measured assurance. '2000' was conceived as a tribute to Manchester's bid to host the bi-millennial Olympic Games, and just because that failed there's no reason why we shouldn't reschedule it for the Northern Music Show later this year.

Contact: Jonathan Russell, 0273 464142 (West Sussex)



### **Hard Sync** 'Ravin Bananas'

Atari ST running Cubase; Korg PolySix, M1R; Akai S1000; Roland MKS50, EX8000, DRV1000, DRV2000; MV1602 mixer; Aiwa HDS1 DAT; Fender Stratocaster; Morley wah-wah pedal

I first heard this band when I was reviewing demos for Home & Studio Recording magazine, and I was impressed then. The track's called 'Ravin Bananas' for very elegant reasons: it's rave, and it features bananas. Or more precisely, it features an impudent steal from 'Shy Boy' by Bananarama, through which a cascading cluster of backing vocals from the girly trio dances in and out of an admittedly quite formulaic beatbox backing. The wah-wah pedal is important, adding an unusual texture to the sequenced melange, brightly recorded directly to DAT. I suspect the panel were being a little purist in the face of cheeky pop insolence when they failed to produce garlands of praise for this consummate novelty. Or even laugh.

Contact: Paul Donald, 0753 650057 (Bucks)

### **Sunday 28th November**

### The Furniture **Beetles**

'Wow'

Atari ST running C-Lab Notator 3.1, Unitor II; Korg 01W/FD; Akai \$950; Gibson Les Paul; Alesis Quadraverb GT, 3630 compressor; Teac A2340SX 4-track; Casio R-100 DAT; Sony Professional Walkman; AKG D140E microphone; Teac 2A 6:4 mixer

The Walkman is used to make location recordings, in exotic places like Malaysia, no less. Not that any such ephemera clogs up 'Wow', which simply bleeps along Shamen-like without the rap. Once again,

# WINNER

Woob

### 'Up The Garden Path'

Atari 520STFM running Sequencer One Plus; Korg M1 plus soundcard: Akai S950 (expanded): Alesis Microverb II; Studiomaster Diamond Mix 16:2; Boss digital delay; Aiwa DAT; Kenwood cassette; "very old" Tascam Porta One

Woob's campaign is very singular. Following persistent and colourful flyers, a box shaped like a house arrives, containing one demo. Then, regular newsletters begin, supplemented by a detailed questionnaire. "Do you use Woob music to... relax/dance to/drift off to sleep to/other (please state)", for example. I suppose under "other (please state)" you could include 'expound the virtues of ambient electronic listening music', because that's exactly what Mixmaster Morris did. And so did the rest of

the panel, interestingly enough. That a highly abstract and lengthy stretch of gently throbbing music can walk off with first prize in an event of this kind is certainly one in the eye for hookdom, and not even a dodgy pan-pipe sample could stay the panel from its brave course in voting ambient tops. As if that wasn't enough, afterwards Woob (aka Paul Frankland) met and exchanged ambience with Mixmaster Morris, too. Lucky git.

Contact: Paul Frankland 0252 733256/0628 785460 (Surrey)



standard pop structures are happily ignored, and the panel had less trouble with this than with the suspicion that more challenging material may be lurking elsewhere in The Furniture Beetles' catalogue, just as more interesting sounds might be lurking elsewhere in the memory banks. Mind you, you can't blame the band for giving the impression that the chosen track suggests more ability than it proves, firstly because it at least establishes something of a good impression, and secondly because (ahem) I chose it.

Contact: Dave Warren 0245 346490 (Essex)

## Necroscope

'Dying Moments'

Akai \$900; Alesis MMT8; Roland SH101, Juno 106; Kawai K1; Korg Polysix; Yamaha QY10; recorded at The Reptile House (16track), Lichfield

The dark and doom-laden brand of technology-based rock identifiable with the likes of Ministry, and spreading like a tumour (forgive the metaphor, but it is apt) across Western civilisation, got a good look in at the Forum courtesy of this crunching diatribe from Necroscope. Possessing all requisite graininess, grunge and metallic clout, this is an excellent example of its kind. What Mixmaster Morris took issue with was the unrelenting and sometimes



irrelevant obsession with hideous and cruel imagery that unfailingly accompanies product of this type - and judging by some of the examples he gets through the mail you can hardly blame him. But Necroscope are nice boys, really, and damaged nothing on the way out.

Contact: Phil Price 021 422 5265 (Birmingham)



### Vital Sign

'Serious'

Equipment list not supplied

A repeat appearance for Vital Sign, who featured at Wembley last year and who came up with another rich and tuneful offering. Unfortunately, songs were not the order of the day, and the panel seemed disinclined to examine the merits of making programmed instruments sound like the real thing. Although this is a very interesting area of music technology - especially for songwriters and arrangers - it could just be that we've achieved a degree of sophistication in the sounds and sequencing options available now that makes them too subtle to be interesting, too discreet to inspire. None of which, of course, detracts from the natural musicality of Vital Sign.

Contact: Justin Birt 0883 717834 (Surrey)

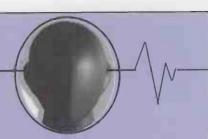
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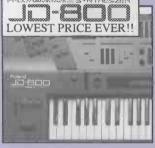


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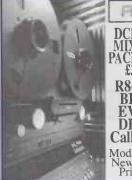
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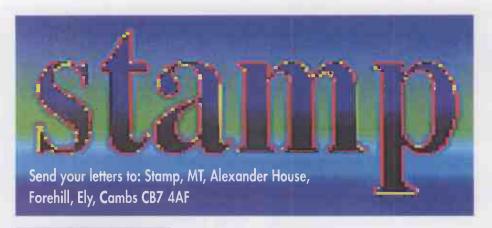








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### Public convenience

• Much of the development in music technology has borrowed and benefitted from the computer industry. Workstations, samplers etc, have beneath their sleek 'musical' interfaces, microprocessors, data buses, RAM, ROM etc...

Musicians have familiarised themselves with the hardware, bits, bytes, SCSI drives and other trappings of current computer technology. So many now enjoy the power and freedom of expression these developments have made in home recording. And yet, after all their hard work they still meet the dinosaur of the 'Recording Industry' when it comes to selling their works or getting airplay.

I wrote some time ago along these lines, but what struck me recently was another feature from the world of computing which could benefit musicians. The 'home programmer' has little or no hope of interesting the software giants such as Lotus, Borland or Microsoft. These companies promote and develop their expensive products with all the advertising hype at their disposal. Sounds familiar doesn't it? Just like the Sonys and EMIs of the music industry. Well, what happened in the world of computing was PDS – public domain software.

Just in case anyone is not familiar with such software; simply put, you buy it for just the cost of the disk – or copy for free – and if after using it you decide you like it, you pay the originator a reasonable fee. You're also free to copy and distribute such software to friends. The programmer relies on your honesty for the chances of some revenue, rather than the far less likely 'big deal' from Microsoft. If you look at the public domain catalogues you will find thousands of cheap software titles – some useless, but some better than their so-called professional counterparts.

So how would PDM – public domain music – work? Well, first you would put a PDM logo on your work which would allow and encourage copying, together with a cost and an address to which anyone who likes it could send your cash. Initially, you would advertise and charge only the cost of the media and postage; cassettes about £1.50, CDs less! At such low costs the public could afford to try before they buy. Next, some enterprising businessperson (someone at MT?) could produce a catalogue and distribute PD music by taking in master tapes, cheaply

copying and distributing these to the public at minimal cost.

The argument against PDS is that programmers get ripped off with widescale pirating of software, but the growth of PDS proves this wrong – as does the fact that I'm writing this using Glite, a PD wordprocessor which I tried for £2.50 and subsequently bought for £30. To paraphrase the dictum of shareware, "one day all music could be sold this way".

James Whitehead Coventry

➤ I can certainly see the potential of the idea, James, though I think there are a couple of questions that remain. For example, given that CD is by far the most popular of the current recording mediums, could musicians afford the initial outlay for production costs (£1000+) with no guarantee of recouping their investment? Also to be considered is the question of copyright; I personally would feel rather nervous of placing my musical ideas (as limited as they may be) into the public arena without the weight of a record company behind me to fight any legal battles which might ensue were those ideas to be 'appropriated' by anyone else. I certainly couldn't afford to meet the legal costs involved myself and I doubt if others could.

And one final point: it would trouble me greatly to think I had no control over the way in which copies were made of the music I produce. If the wildly varying quality of cassettes we receive is anything to go by, many people still don't value their own music enough to record it on reasonable quality tape, why should they take the trouble with other peoples'? This, I believe, is where the parallel with software breaks down. Copying disk data is much less problematic.

I hope I don't appear to be pouring cold water over the idea – I'm sure these difficulties could be ironed out with thought, NL

### Generally lacking

• Your reply to Robert Grimes in the November issue was of great interest to me as it highlighted a developing situation with regard to 'General MIDI' products that could be

misleading to your readers.

You suggested that Robert might like to check out the CD-1 Hyperkeyboard from General Music which you said was General MIDI compatible. In fact, the CD-1 is not GM compatible. It only offers 6-part multitimbrality over MIDI, falling a long way short of the 16 parts defined in the GM specification. If you try playing a full 16-part General MIDI song file that you've bought specifically to go with your 'GM' keyboard and play it through the CD-1, the result will probably be lacking in something (like 10 parts of the arrangement!). But General Music have proudly adorned their CD-1 with the General MIDI logo and this is perhaps where you, and potentially many others, have misunderstood. A closer look at the logo will reveal the 'Sound/Perc' overwritten in small print. This is supposed to indicate that only the sound set and drum map conforms to the General MIDI specification.

This in itself is a useful feature and I'm not casting aspersions on the quality of the CD-1 as a keyboard per se, but General MIDI compatible it most certainly isn't, and as such should not, in my view, be sporting the GM logo – albeit overwritten.

As the use of MIDI has grown in popularity and has appeared on less and less expensive equipment over recent years, I think it fair to say that there has been some confusion—particularly in the domestic user section. I have had several calls from confused customers wondering why they can't get any sound out of their 'Midi' hi-fi when its connected to the MIDI out socket of their keyboard. The development of General MIDI is undoubtedly going to result in more questions from users, many of which will be directed to MT with your reputation for technical expertise.

It is the responsibility of manufacturers to make clear the capabilities of their product so that all of us in the industry can help customers take advantage of new technology as easily as possible.

So check that GM logo and spec. Is it really fully GM-compatible or is there any 'small print'? Even if a product only falls short of the GM spec by, for instance, not supporting the GM on/off message, it is not fully compatible and may therefore not show the GM logo, but it may be so close that it represents excellent value for money and you'll never notice the one small shortcoming.

General MIDI is an important development and I am sure that all major keyboard manufacturers will soon be offering GM product. However, it is important to keep things clear and accurate – if customers are confused or feel misled, they won't buy.

Martin Lawrie Casio Electronics

### On his case

• So Robert Casey ('Stamp' Dec'93) wants no more 'my computer is better than yours' talk.

Why then does he go on to boast about MultiTOS being "truly pre-emptive multitasking unlike Windows 3.1's tarted-up task switching"? Alan Farthing Norwich

### Gi's a job

• I am writing to you for two reasons. Firstly, I enclose a copy of my demo tape which I hope you will be able to review in 'Dare!'. It was produced on our school equipment – a Korg M1R, Atari 1040STFM running C-Lab Notator and a Cheetah mother keyboard.

I am now half-way through my A-levels at Wells Cathedral School and am studying composition. I first took an interest in synthesiser music three or four years ago and since then have become a 'Synthesiser Prefect' and deal with much of the organisation and technical management of our somewhat limited school facilities (I have no equipment of my own). I have had some of my music published on a commercial relaxation video, but this demo tape represents my first foray into the world of music production in the proper sense.

The second reason for writing is that I intend to take a year out after my A-levels during which I would like primarily to try and gain some sort of foothold in the music industry before going on to study astronomy or astrophysics at university.

Trying to get a job in a recording studio seems like it could be a good idea, to build up contacts and experience – but I am still looking for other ideas.

Perhaps there may even be a job opening with your magazine for a year? Again any help you could offer would be greatly appreciated.

Julian van Eyken Shepton Mallet

➤ Where to begin, where to begin...

You're absolutely right, Julian, getting a job in a recording studio is a good idea. Unfortunately, it's just about the most difficult idea to put into practice you could have had. The industry is currently awash with young people like you who are quite prepared to subject themselves to the most appalling working conditions and endure all manner of indignities for the chance of a job as tea boy (or girl) in a studio. In fact I've known of a number of people offering their services free of charge just to get the "foothold" you yourself would like. The difference, I feel I must point out Julian, is that these people plan to make this the beginning of a career in the industry, not just a 12-month 'sabbatical' after

which they'll leave to study astrophysics.

Really, you have to ask yourself if you were looking for someone to fill a junior position in a studio would you go for someone prepared to spend the next few years of their working life with you or someone you knew was leaving after 12 months?

I'm afraid that's something I would have to take into consideration when selecting staff for *MT*, **NL** 

### Eye, eye

• Whilst leafing through your magazine last month, an article took my eye. Could I please have it back?

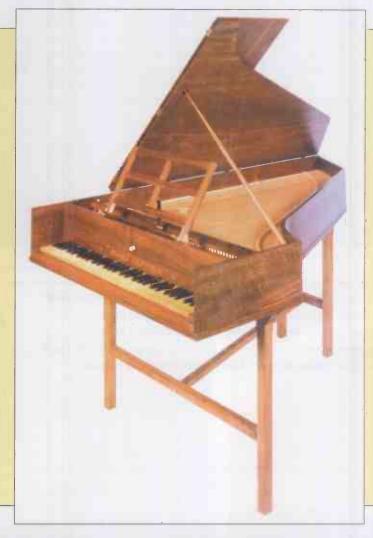
Nellie Maynard (Mrs) Tunbridge Wells

➤ There's been no sign of it round here, Nellie, but I'll keep an eye out for it and if anything rolls up I'll let you know – OK? NL.

Opinions expressed in readers' letters are not necessarily those of the Editor, who cannot be held responsible for their contents and reserves the right to abbreviate letters where necessary.



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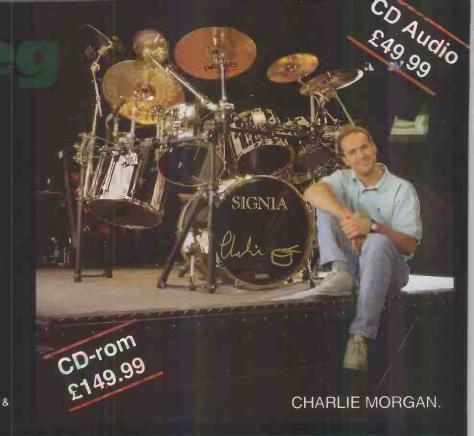
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Colin Lemmon (Home & Studio Recording review, June 1993)
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Write to Grief, MT, Alexander House, Forehill, Ely, Cambs CB7 4AF.

I recently bought a small Roland keyboard setup – a PC150 and a Boss DS330 – and I am already dreaming of sequencers and samplers, but I'm uncertain of what to get. It seems that a computer-based sequencer will be more versatile, letting me upgrade to more professional software later on.

My problem is what type of computer to get. Which make/range is the best value for money (I'm on a tight budget) and which runs the best range of software? I am also unsure of what software to get. I would like to get something affordable but not too limiting.

It is difficult to get objective advice as shop assistants are either ignorant or biased towards their own products.

Michael King Witkoppie Ridge South Africa

Appreciate your problem, Michael. With so many computers and so much software on the market, it can be difficult making a decision. The whole subject really requires a full length article and that's exactly what you'll find in this very issue (see Computer World, page 20). But here's the short answer...

PCs are about to take over the world but they're absolute pigs to set up and to troubleshoot. You get more power for your pound with a PC – but you need it to run a program within Windows and on top of DOS. Apple Macs are, in my opinion, much better, and far, far easier to use. Also Apple are wont to cut the price and rehash the range every week so that they are just about, almost, nearly becoming affordable.

The ST is cheap (particularly secondhand) and there is more music software for the ST than all the other computers put together. With the advent of the Falcon, however, development on new ST software will inevitably slow down. The Falcon is nice but a lot of music software won't (at present) run on it.

From a musical point of view you can forget the Amiga – Commodore seems to have – and there's really not the range of music software for the Acorn Archimedes for it to be taken into consideration.

There's a growing range of music software for the PC and most new development work takes place here and on the Mac. The most popular topend program is probably Cubase which is available for the ST, PC and Mac—although the PC version is rumoured not to be without its problems. Emagic's Notator is my preferred choice for a sequencer-cum-scorewriter. It's currently only available for the ST but Notator Logic is even more mega and will soon be available for the ST/Falcon, Mac and soon for the PC.

There are lots of less-expensive programs for all formats although the greatest range and choice, again, is for the ST. The Mac has a cluster of good programs but the range is not vast and there are not many budget ones. The PC is starting to show out in this area.

As you don't say just how tight your budget is, it's difficult to give specific advice. You can do the most with the least lolly by going for an ST and a budget sequencer – although you might like to consider buying a major sequencer, one which you can take with you if you upgrade your computer. Some companies have cross-platform upgrade policies so if you started with Notator on the ST you could upgrade to Notator Logic on the Mac or PC. IW

As a huge Jean-Michel Jarre fan, I was especially interested to read your interview with him in the August issue. I have all of his albums but was interested to see the large collection of other records he has released that I never see in the shops. I am very keen to get hold of a copy of 'Chronologie (Part 4)', with the remixes your list mentions. I presume that the only way of doing this is by going through the record company, so is there any chance you could send me the address of both Polydor and Dreyfus?

Jonathan Buchanan Hants.

'Chronologie (Part 4)' is still in the shops, having recently charted (slightly) following an appearance by Jarre on *Top Of The Pops*. Which should mean that if your local shops don't have a copy actually in the store, you can ask them to order one for you. The title, artist and label is all they need. The larger retailers should have a database of catalogue numbers for



every record currently available in the UK, which they use to place orders with the record companies. As for the albums, Polydor say that all of Jarre's back catalogue is still available by following this procedure; nothing has been deleted. Furthermore, they do not supply recordings directly to customers.

Dreyfus is a French label with whom Jarre has a separate deal, who should be able to supply *Waiting For Cousteau* (1990) and the compilation album *Images* (1991) directly. Write to them at: Francis Dreyfus Music, 26 Avenue Kleber, 75116 Paris. PW

I regularly buy your magazine and would like to congratulate you on a first class publication. Whilst there is as much interest in electronic music here as in any other country, we do not have a national magazine and rely on imported magazines for information. So please keep up the good work.

I am interested in purchasing some MIDI connection equipment and on 7th September I wrote to Philip Rees after seeing their ad in your May issue. I regret to say that after two months I have not received a reply. Since you were offering a free V3 as a subscription incentive I assume you have a good relationship with the company and would be most appreciative if you could ask them to respond to me.

John Colville

Colonial Entertainment Brisbane Ozzie Land

Such flattery. Such honesty! We blush.
Yes, we do enjoy a good relationship with Philip Rees and on their behalf I would like to pass on the message that your letter was never received. Perhaps one of Her Majesty's postal workers thought it contained Castlemaine XXXX vouchers or something. Anyway, a catalogue is winging its

way to Australia and should be with you by the time you read this.

Actually, the company does a fair bit of business Down Under, so in theory there should be no difficulty dealing with them. As for their gear, I can only recommend it. G'day... IW.

Over the past few years I have been building up my bedroom studio which entails: Roland S-330, Roland Juno 6, Roland SH-101, Moog Prodigy, Akai X7000 + upgrade, and Cubase on the ST. I write dance music, progressive underground, not like this commercial bullshit, mentioning no-no-no-names (ha! ha!).

Anyway, my problem is that I am sampling all my sounds. It's OK for the drums but when I sample my lovely analogue keyboards I can't change the parameters of the sounds while they're playing – obviously.

I've come to the conclusion that I need a Kenton retrofit for my Juno. With C/V outs I can, so I've been informed, run my SH-101 and my Prodigy. If this is so will all the functions on the SH-101 and Prodigy work as normal?

Could you please answer this for me before I go and spend £300-odd on a retrofit?



Now then, Mark, the 'Stamp' pages are the place for your musical rantings. We get enough Grief here as it is. We just try to get the gear working – what kind of noise readers make with it is their own business.

I'm afraid your problem isn't quite as straightforward as it may at first appear. For example, how old is your Prodigy? Some early models didn't have a CV or S Trigger. But Kenton can supply a kit to add them for £9.40 or the company will do the job for you for £35.25.

The Juno 6 is not the best keyboard in the world to retrofit with MIDI. While it can respond to pitchbend and velocity info, the keyboard is not velocity sensitive and doesn't handle aftertouch – so it can only transmit note on and off info. But the retrofit is available at £229.

The best solution depends on exactly what you want to do. For example, it may even be worthwhile buying a separate keyboard to use as a master. Kenton's main MIDI-to-CV converter is the Pro-2 (£189) but the company is currently developing an even more mega machine, the Pro-4, which could well be a better option for you.

All things considered, the best thing I can suggest is to contact Kenton directly and head honcho, John Price, will explain all your options. He'll also be able to give you more info about the Pro-4 which is going into production at the time of writing. Tel: 081 974 2475. Fax: 081 974 2485.

Of course, you could get rid of your antiques and go completely MIDI. But somehow I don't think you want to do that... IW

Much as we'd love to, we simply don't have the time to reply to readers' queries by phone or individually by letter. Similarly, if you phone us with a query you are more than likely to catch us in the middle of something, so we wouldn't be able to devote the time to you that we would wish.

More to the point, most questions involve a degree of research – books, magazines, manuals, massage parlours, phone calls and so on – so many queries couldn't be dealt with on the spot anyway. Contrary to popular belief, we don't know the answer to everything. We answer as many as we can as quickly as we can through these pages, to which end we appreciate written queries – help us to help you and all that.

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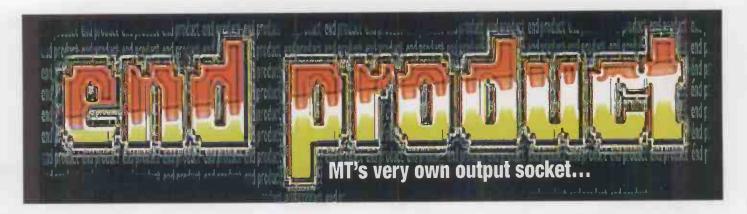
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### **Harvey Bainbridge** Interstella Chaos (Taste)

If only Harvey had been commissioned to write the soundtrack for Cosmos, Carl Sagan's seminal TV series on pop astronomy first screened in the late '70s. Then his swirling, vibrating keyboard sketches - with titles like 'The Sun In Hydrogen Light' and 'Dense Dust' (try saying them in Sagan's slow Californian drawl) - would have found a natural home. Mind you, at that time he wouldn't have had access to the thick clouds of digital synthesis which sweep through this recording like meteor showers.

Once you've heard the album, it doesn't surprise you that Harvey Bainbridge, as the press release cryptically reveals, "was Hawkwind keyboards 1978-91". Why not? Because there are a few telling details which distinguish this cosmic ambience from that peddled by the likes of The Orb, ski hats or no ski hats. Firstly, the aforementioned digital synthesis. The rave generation favours a blend of analogue synthesis and sampling, and while there are a few burbling sequences on Interstella Chaos the main thrust is decidedly FM, LA and AI2. This makes the sounds much more identifiable with specific products, not unlike corporate demos. Secondly, the sampled sound bites which commonly link the dance generation's collages with commercial and media reality and which do so with wit and irony - are entirely absent. And furthermore, take a look at the logo. Not even Roger Dean could compete with such a monstrosity.



So while the ambient wave is rehabilitating entire squadrons of space cadets from the original psychedelic era and its aftermath, the differences between old school and new school persist, and remain in evidence no matter how abstract the musical form. Hey, now that's cosmic. PW

### Sect Telekinetic (Third Mind)

"Ideally," says Mike Victory of Sect, "our material would be sold with software and/or hardware for a complete virtual experience." Well, here's hoping. At the moment, though, you have to content yourself with interacting with the play, pause and stop buttons on your cassette deck only. Which is worth it, if a tad old fashioned, because Sect's debut album is a fascinating take on rave-influenced electronic music. Hailing from Canada, and citing industrial legends Skinny Puppy and Front Line Assembly as major influences, Sect are now engaged in the business of assimilating European dance culture into their sound.

The result has a hard edge without being hardcore, with rasping synth lines threatening to remove a layer or two of skin on their way to the back wall, and yet an evenly paced, nay jolly collection of bouncy beats. Above all it's a positive, confident mood which the machines create, which certainly does reflect the optimism of rave culture, and which mercifully counters the doom-laden industrial waste of grungestained youth on that side of the Atlantic. PW

### Jansen Barbieri Karn **Beginning To Melt** (Medium)

Medium Productions is, to the three former members of Japan, pretty much what Swim is to Colin Newman (see page 29). Recorded at the home studios of Steve Jansen and Richard Barbieri, Beginning To Melt is defiantly experimental in purely musical terms, but pushes few barriers technically. Fluid, growling bass lines and swelling keyboards spar with Jansen's resonant percussion textures in songs and



instrumentals which, however carefully layered on the multitrack, retain an improvisational air and a spontaneous beauty.

The album is only available by mail order, which may be a sign of things to come, at least: order yours from Medium Productions Limited, 74 St Lawrence Road, Upminster, Essex RM14 2UW; prices are £12.00 UK, £12.50 Europe, £14.50 USA or £15.20 Japan.

### Jam & Spoon **Tripomatic Fairytales** 2001 & 2002 (Dance Pool)

Well known as a remix team, Jam El Mar and Mark Spoon, producer and DJ respectively, perfectly combine the twin disciplines of a new breed of musicianship. Their experience behind both desk and deck enables them to conjur a delicious array of electronic beat



styles – not just four-on-the-floorfillers, but subtle rhythmic workouts in which every sound is perfectly placed. There are two CDs – 2001 and 2002 – the first designed for the dance floor and perfectly acceptable in the car or at home, the second designed as ambient listening and acceptable just about everywhere.

There are one or two Euroindulgences (Jam is from Frankfurt); 'Right In TheNight' utilises a classical guitar phrase which to snobby Brit ears (mine included) lurches perilously close to those awful disco hybrids from

the Continental '80s. But what the hell, Giorgio Moroder was a genius, even if at the time of 'I Feel Love' informed rock musicians wouldn't give him the the *tempo del giorno*. The significant thing about these releases is



that, like the output of Harthouse, Rising High, Sabres Of Paradise and a host of others, they set new standards for the nonmusician. Sound itself is the music; the studio is the instrument. PW



### Material Hallucination Engine (Island)

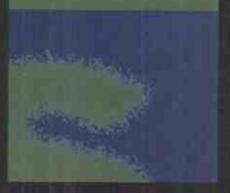
Bill Laswell's supergroup continue to get their instrumental passports stamped in and out of all sorts of musical territories, under the strong dub influence of the bass-playing eclectic warrior himself. Funky tabla!

### Ice Cube Lethal Injection (4th & Broadway/Island)

A refreshingly mellow vibe infiltrates the normally pounding loops of Ice Cube's hip hop, courtesy of co-producer QD III (son of Quincey Jones) and a guest appearance by the godfather of a more innocent funk, George Clinton.



### scanner<sup>2</sup>



### Ash International Scanner 2 (Touch)

Even though they've misquoted *MT*'s last review in their press release (Psychic *BT*, guys), I'm delighted that another volume of these profoundly disturbing sound bites has appeared. A grainy, gruelling soundtrack to human foibles.

### DiY

### Strictly 4 Groovers (Warp)

Minimal dance grooves and a final rinse of ambience from Nottingham's collective of no less than 14 different DJs, engineers and "personnel". It all revolves around a studio with a generous open-door policy towards local talent, and this debut album – more a compilation – proves there is no dearth of local talent.

# 1993 - a year in music technology

MT's award ceremony, in no particular order. All of them, one way or another, have given the wheel a turn...

### Albums of the year:

Aphex Twin Selected Ambient Works 85-92 808 State Gorgeous The Beloved Conscience Sheep On Drugs Greatest Hits Sven Väth Accident In Paradise Orbital Orbital William Orbit Strange Cargo III New Order Republic Ash International Scanner System 7 777 Speedy J Ginger Amorphous Androgynous Tales Of Ephidrina Fluke Six Wheels On My Wagon Björk Debut Ultramarine United Kingdoms The Drum Club Everything Is Now Pet Shop Boys Very Mixmaster Morris & Pete Namlook *Dreamfish* The Higher Intelligence Agency Colourform

### **Events of the year:**

Steve Reich *The Cave*The Megadog MIDI Circus
U2 Zoo TV
The Orb Ultramarine in Copenhagen
Cyberseed

### Videos of the year:

Cyberdelia Flying High With Mixmaster Morris & The Wisemen Future Shock

# Innovative product of the year:

Peter Gabriel Xplora 1

sounding like this. Let's hope their emerging computer literacy encourages experimentation in the studio to parallel Floyd's epic achievements in the '70s.

# New Year's Resolution:

# **Get Less Exercise**

Forget about eating better, smoking less & taking up jogging - in fact this resolution means you get even less exercise! Let the postman do the walking.

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668850 (9-12 & 1-5pm Mon-Fri) and speak to Rose or Lisa.

### KEYBOARDS

**AKAI** MX76, £400. Rhodes VK100 organ, £750. Yamaha TG77 module, £650. Emu module, £180. Tel: 0792 897426.

ARP ODYSSEY synthesiser, analogue classic £300. Yamaha FB01 FM module, £100. Tel: Martin 0489 891815.

ARP ODYSSEY; £350.
Oberheim SEM, £350.
Memory Moog, £750.
Oberheim DSX sequencer, £150. TEAC A108 sync cassette deck, £50. Stephan.
Tel: 0726 66715.

ARP OMNI II rare classic analogue keyboard in excellent condition, complete with original manual, £600 or swap for Roland Jupiter 8 or Roland Vocoder Plus VP330. Dave. Tel: 081 902 9784 or work 081 964 2211.

CASIO AZ1 portable MIDI controller keyboard, full functions, 3\ octaves, vgc, £190. Robert. Tel: 071 281 1918.

CASIO VZ10M, £130. Evolution EVS1, £100. Tel: 0748 825481.

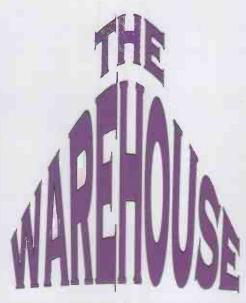
CAVENDISH ROMA 901 electronic organ. Good working condition.
Sequencer and percussion, £200 ono. Tel: 0983 873791.
CRUMAR BIT-1 61-note, 64 memory, 12 DCO, velocity sensitive, splittable MIDI keyboard synth. Hard case, factory tape and manual.
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ENSONIQ SQ1 workstation, 16-bit sampled sounds, 24-bit digital effects, 16 track sequencer, vgc, home use only, footpedal, £500.
Russell. Tel: 081 559 8956.
ENSONIQ SQ80 synth and manual. 1000's of sounds.
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Tel: 081 367 1720.

ENSONIQ VFX/SD1 voices—huge library in Atari, Ensoniq or PC formats. 5 disks with 1000 voices each. Only £12 per disk or £50 for all 5. Richard. Tel: 0736 67531. ENSONIQ VFXFB1 music synth, as new, with Atari STFM computer upgrade to 1Mb with cubase Atari monitor, quick lock 2-tier stand, 6 channel stereo pixer with graphic equallser, £1500 ovno the lot. Andy. Tel: 0903 722023.

EVS1 8-part multitimbral sound module inc. Atari editor, £100. Tel: 0702 349544

FENDER RHODES Stage 73 piano plus DX100. Will swap for anything Interesting. Tel: 0854 612554. GEM S2, vgc, £1350. Akai S950, full upgrade & disks



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The Warehouse is for private vendors only. Business vendors must use the classified ads at the back of MT.

£800. Seck 24:2 mixer £350. DR660 drum machine £100. All home use only with manuals. Ian. Tel: 021 770 9073.

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KAWAI K1 very little use. Initial and after-touch keys, multitimbral with Yamaha R100 reverb, £275 ono. Tel: 0260 280131.

KAWAI K4 2 months old with 10 month guarantee. Hardly used. Boxed, manuals, stand included £400. Greg 031 343

6051 or 031 245 3356. KAWAI K4 multitimbral polyphonic synth with manuals, vgc, £350 ovno. Bruce. Tel: 021 358 6311. KORG 01/W FD with M and T card sets, virtually unused as surplus to requirements. Boxed, manuals and training video. Complete and as new, £1250. Tel: 0532 680331 KORG 03 rack workstation excellent condition- cost over £900. Sell for £595. Roland R70 drum box. Paul. Tel; 0302 538304. KORG DW8000, £245, Kawai K1, £235, Yamaha Tx812, £145. Yamaha QY10, £155. All in excellent condition, home use only. Dean, Tel: 0908 235113 (Bucks). KORG M1 excellent

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KORG M1 home use only, excellent condition including sound card. Bargain, £799. Tel: 0234 327556. KORG M1 like new, boxed, manual, card, video and pedal, £700 ono. Terry. Tel: 0928 711006 Cheshire. KORG M1 mint condition, boxed, manuals, home use

boxed, manuals, home use only, Korg DS1 MIDI data filer, ROM card, PCM card, £775. Mark. Tel: 0737 221965.

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KORG POLY 61M MIDI. £200. KORG MS10, £140. Yamaha TX81Z, £140. Nigel. Tel: 0724 711353. KORG POLY 61M MIDI. £200. Korg MS10, £140. Yamaha TX81Z, £140. Nigel. Tel: 0724 711353. KORG PS3200, 100, £1500. Rhodes Chroma with MIDI, £800. Roland MKS7, £200. Roland CR68, £75. Roland CR78 with WS1, £200. Fujia D9E Hammond module., £175. Roland MKB, £1600. Paul. Tel: 041 772 9680.

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ROLAND JUNO 106, £295. Ali. Tel: 0727 865932. ROLAND JV30 including stand, £499. Alesis MMT8 sequencer, £125. Fostex X18 4-track recorder, £185. Tel: Colchester 0206 864377.

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Akai XE8, £75. Tel: 0274

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ATARI STEM 2.5Mb RAM. 40Mb hard disk, colour monitor, second floppy, mouse, only £450. No offers. John. Tel: 061 682 4759.

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MONSTER SOUND cartridge wanted for Atari ST,

exchange for video digitiser for Atari ST. Gavin. Tel: 0772 716593.

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3395. Alesis Datadisk SQ and sequencer. Mr Jones. Tel: 0332 841163. YAMAHA QY10, lovely cond, still boxed. Offers. Rob. Tel: 0225 878187.

### SAMPLING

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AKAI S950 fully expanded, £795, Akai EX70C compressor, 360. Aphex Studio Clock SMPTE MIDI unit - can even MIDI map uncorded songs, £195. All ono, boxed with manuals. Tel: 0772 322 123 (eves) or if problems 0772 555 235 (day).

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CHEETAH SX16 stereo 16bit sampler, inc sample disks. Accept Akai disks vgc, £365. Reza. Tel: 081 471 0855

CHEETAH SX16 stereo, 16bit rack mount sampler. Seperate outs, multitimbral, £250. Lee. Tel: 081 751

CHEETAH SX16 stereo 16-

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EPS 16R+, £950. Yamaha Tx81Z, £120. Yamaha CS30, £220. Yamaha CS10 plus Breath Controller, £90, Casio VZ1, £290. Tel: 0453 833245.

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REPLAY 16 professional sampling program for Atari ST. As new, boxed, with manual and dongle. £90 ono. Phone 021 358 7612 after

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### DRUMS

drum machine, good condition, boxed £100 ono. Paul. Tel: 0235 534609 after 6pm. ALESIS SR16, £250. Tel: 0903 725452. KORG DDD3, two ROM cards, manual, PSU, vgc £150. Korg SQ8 8-track sequencer, manuals, PSU £75. Yamaha CX5 M II computer, multitimbral DX21 inside, manuals, software £50. The lot £200. Daniel. Tel: 0270 882559 ROLAND CR8000 Compu

ALESIS HR16 16-bit sample

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Robin. Tel: 0305 783258. ROLAND TR727 case slightly marked, £75. Roland 606 battery cover missing, £30. Korg KR77 with manual, £75. Duncan Gillespie. Tel: Sheffield 0742 482760 after 8pm or leave message on ansaphone. **ROLAND TR808** perfect condition, £300. Phillip. Tel: 0424 842076. ROLAND TR808, £290. Nigel. Tel: 0724 711353. ROLAND TR909 drum machine, recently serviced, manual, boxed, excellent condition £550. Paul Tel: 0536 761014 SEQUENTIAL TOM MIDI digital drum machine, very verstile with manuals & PSU, vgc, £145. Tel: 0532 866848 eves. Leeds.

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YAMAHA RY30 drum machine, £325. Yamaha TG33 expander including 3 sound cards, £325. Scintilator stereo exciter, £85. All in excellent condition. Robert. Tel: 0726 64890

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**COMPLETE HI-TECH** home studio, synths include: JD800. Modules inc: Korg SR Wavestations, Yamaha TG55, Kawai K4, K4R etc, Alesis Microverbs, MIDIverbs, enhancers, noise filters, amplifier. 16-channel Alesis mixer, Sony DAT, Denon cassette deck, Atari computer and monitor. Cubase, drum machines, TOA monitoring speaker and sound library for all synths and modules. All mounted in double 13U racking. Audio and MIDI leads. Absolutely everything you need. Price: £8950 (including delivery, set-up and help if required). Tel: 0903 725452. FOSTEX 260 Portastudio

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ROLAND E660 digital MIDI EQ, £400 ono. Digitech IPS 33 MIDI pitch, £200 ono. Both vgc with manuals and PSU. Joe. Tel: 021 440 3915 or 021 449 8672.

SECK 12:8:2 mixing desk, perfect for 8-track use, black, vgc, home use only, boxed with psu and manuals, only £600. paddy. Tel: 0484 544993 Huddersfield. **STUDIO RESEARCH 16**channel mixer, perfect

condition, £250. Lee. Tel: 081

340 4048 TASCAM 38 1/2" 8 track professional recorder. reluctant sale, £830 ono. Sansui 12:6:2 mixer, boxed, £400 ono. Both mint condition. Tom. Tel: 0722

TASCAM 238 sync cassette, £595 as new LS20 compressor, £165. XRI 300 SMPTE, £120. All items are as new and boxed with manuals. Tel: 051 339 1167. TASCAM 238 sync cassette, £595 as new. LX20 compressor, £165, XRI 300 SMPTE unit, £120. All Items are as new and boxed. Alan. Tel: 051 339 1167 TASCAM 244 4-track portastudio with tracks DBX bypass, £260. Tel: 0223 234850 Cambridge. TASCAM 644 4-track 16channel mixer with MIDI timecode built-in. Cost £1299, sell for £559. Paul. Tel: 0302 538304.

### PERSONNEL

BASS GUITARIST available progressive/Art rock influenced by Camel, Crimson, Yes, IQ, Floyd. Also Flute Stick percussion to join band. Steve. Tel: 0705 694340. **DEMOS FOR very** 

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### MISC

3-TIER ALUMINIUM tubular keyboard stand. Very lighweight, very good for live use. Did cost £300 sell for £60. Yamahaa EMq1 disk recorder, real time recorder inc disks, £40. Alexander. Tel: 0206 564739 after 6pm. ATARI ST520SM 1Mb floppy drive, 16-track sequencer over 100 games, 2 joysticks, mouse, word processor, spread sheet, art package, £150 ono for the lot. Paul. Tel: 0235 534609. **DANGEROUS 1 sample CD** over 90 different sample tracks, £20. Also Roland TB303, £450 and Roland TR909, £650. No offers. Tel: 081 683 3996 eves. **EXPORTER EXTRA 16** MIDI channels for Atari. Cubase and Creator, only £25. Tel: 0602 606074. **FOSTEX R8 with MTC1** sync unit (less than 2 hours recording), £900. Studiomaster Series 5 16:4:2 mixing desk, £750. Atari 1040ST with monitor and 30Mb hard disk, £295. Steinberg Cubase 3.0, £275. ROLAND S50 sampler/ keyboard, samples and monitor, £650. Roland D110 synth module. £275. Steinberg D110 synth editor (large sound library, £45. BOSS DR660 drum machine, £250, Roland MKS50 analogue synth module (Juno 2 in rack) and programmer, £300.

ALESIS Quadraverb with + chip, £275. Alesis Midiverb II. £150. Aluminium keyboard stand, £60. All ono. Total system price complete with cabling, MIDI Thru, merge boxes etc., £3500. Andrew Jocelyn on 0223 303388 (day) or 0223 571986 (eves) **ROLAND AX-1 remote** keyboard MIDI controller, hardly used \_ boxed, manuals. Unwanted gift, £380 ono. Call Mark after 6pm. Tel: 0787 880721.

**ROLAND GR1 and GK2** 

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### WANTED

AKAI F950/900/FS1 or expander Cheetah SX16 sampler. Cash waiting or possible swop for my M1. Julian. Tel: 0392 64493. AKAI S1000 sell me help

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# ADVERTISERS INDEX

A1 Music	52
ABC Music	
AMG	
Akai	23
BEM	61
Babel	85
Carlsbro Retail	15
Chappels	51
Eddie Moors	80, 81
Gigsounds	IFC
Intasound	18
Kenton	65
Key Audio	11, 42
Korg UK25, 3	30, 31, OBC
Korg UK25, 3	
	49
Lowrie Woolf	49 57
Lowrie Woolf	49 57 6, 7
Lowrie Woolf  Metra Sound  Music Connections	49 6, 7 65
Lowrie Woolf  Metra Sound  Music Connections  PC Services	49 6, 7 65
Lowrie Woolf  Metra Sound  Music Connections  PC Services  Patchworks	
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