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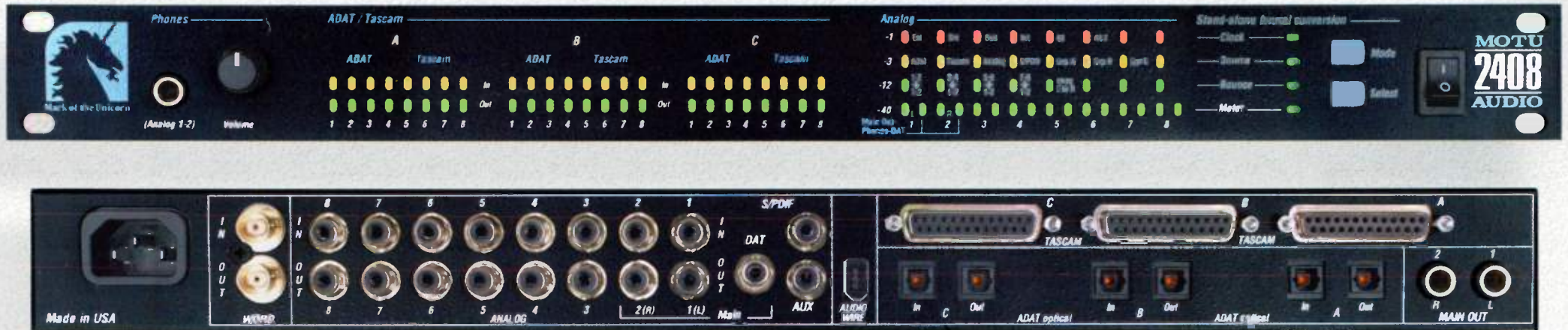
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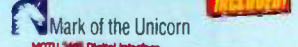
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When MIDI sequencers first showed up on the market, not only were they very different to the sophisticated packages we have today, they were also very different from each other. Some almost demanded you write music in machine code, some attempted to create a loose tape-track analogy, while others tried to forge a new and better way of their own. No two offered the same features, and the number of computers supported was bewildering. Whether you had a Commodore 64, a BBC Micro or a Sinclair Spectrum, the chances were you could find a MIDI sequencer of some kind to run on it.

When the Atari 1040ST showed up, its built-in MIDI port and generous memory capacity (for the day) made it an obvious choice for serious sequencing, so support for the other platforms dwindled, but it wasn't until Steinberg's *Pro24* was superseded by *Cubase* that we got our first glimpse of what was to become the model for the standard sequencer interface. These days most sequencing is done using Macs and PCs, but virtually every serious sequencer has an Arrange page that looks similar to that first *Cubase* model, complete with scissor and glue tools for editing. Look a little closer and you're also likely to find a score edit page, a piano-roll grid editor and an editable MIDI events list, not to mention a

GM mixer. What's more, with every revision, the interfaces of all these different programs seem to become more similar. When C-Lab's *Creator* evolved into Emagic's *Logic*, a number of features were heavily influenced by *Cubase* — but in the latest *Cubase* revision to version 4, a number of *Logic*-style features have been added. You only have to look at the reviews of *Logic Platinum*, *Cubase v4* and *Opcode's Studio Vision Pro* in this issue to see how similar these programs have become (see pages 92, 96 and 104 respectively). In fact the only thing that hasn't converged (yet) is the layout of the menus, and this is probably the main obstacle to people

changing platforms. User-definable key commands are now fairly commonplace, so it should also be possible to allow users to configure menus to their own liking.

Of course, one of the most significant things to happen to sequencers in recent years is that they now have the means to manipulate digital audio, and with faster computers came the ability to handle mixing and generate effects within the computer. The pros and cons of this way of working have been covered at length in this magazine, but suffice it to say that 'native' processing power can provide the user with a powerful and compact recording system at a relatively low cost. At the beginning of this year, Emagic and Steinberg announced that they would cooperate by sharing Steinberg's VST

plug-in architecture so that the same plug-in software can be used by both Steinberg and Emagic users. Recently, Opcode announced that it too had reached an agreement enabling it to support VST plug-ins, which at the very least means plug-in designers now only need to write one piece of software where previously they had to come up with three different products.

It also allows users to move between sequencer platforms without abandoning whatever investment has been made in software plug-ins.

This degree of co-operation is clearly a good thing, but what should be the next development? More processing power means we can run more plug-ins, but that's really just scaling up what we already have rather than coming up with something new. I don't pretend to know all the answers, but I do have a few suggestions. We have audio processing plug-ins, so why not a MIDI processing plug-in architecture that will allow third party companies to write 'arrangement aid' plug-ins? For example, as a guitar player with little knowledge of orchestral arranging, I'd like something that could rearrange block chords as proper string parts in a choice of styles. A routine for creating MIDI harmonies could also be useful, and I'd love to have Steinberg's scale-quantise function available from within *Logic*. In fact, how about an intelligent plug-in specifically designed to compensate for the vagaries of the MIDI guitar — that would make a few friends in the SOS camp! So far, only MOTU's *Freestyle* has dared to break away from the tyranny of the quantise click — what further improvements can be made in that direction? Sequencers could also be expanded to include sample playback — we have the computing power and cheap RAM to do it — and while we're at it, the sequencer should be able to load commercial sample CD-ROMs via the computer's CD-ROM drive. What do you think — what should the sequencer be when it grows up?

Paul White Editor



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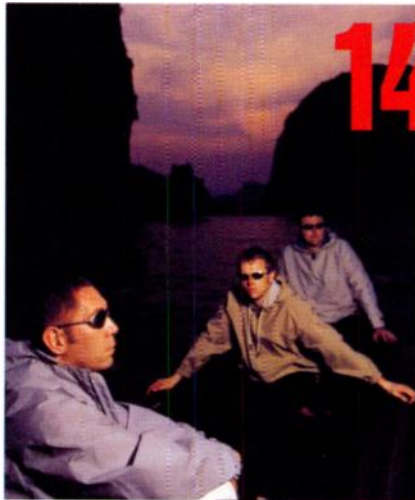
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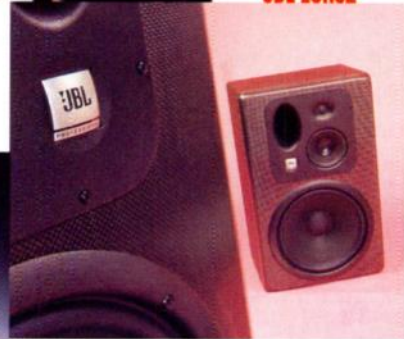
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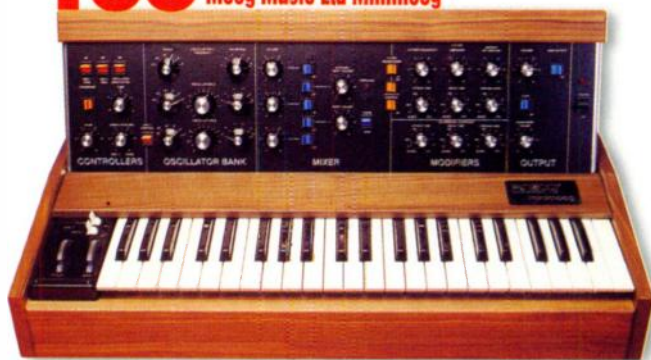
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Crosstalk

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The SOS web site can be located at www.sospubs.co.uk

Live Bedroom Show

I enjoyed Paul White's series on practical studio soundproofing and am currently busily fixing my house. I wonder if he might be able to help. I live in a three-bedroom end-of-terrace house and I am adapting the smallest room (1.8m x 3m) into a control room. For soundproofing, I'm fixing secondary double-glazing with curtains over and am carpeting with thick-hair underfelt. I may also rehang a solid-timber door with a three-quarter-inch plywood layer. What should I do about the ceiling?

My second bedroom (2.8m x 3.1m) is the guest room but is also doubling as the live acoustic room. It has a wooden floor, and at the moment sounds like a tin alley, with a horrible metallic reverb. Obviously I could soundproof this

room too, but I'm wondering if I need to, as there won't be as much sustained noise coming from this room. What I'd like to know is are there any simpler steps I could take to improve the quality of the live sound, or do I need to soundproof first anyway? Could I hang curtains over the walls to absorb some of the sound, and should I use acoustic tiles?

Duncan Alldridge
London

Editor Paul White replies:

Soundproofing terraced houses can be very difficult, but as long as you aren't planning to take drums in there, you should be able to get acceptable results. The hairfelt underlay is a good move, and it may be advantageous to put your

speaker stands on small paving slabs resting on the carpet rather than using spikes that go through to the wood. Adding mass and thickness to the door is also a good idea, as is double-glazing, but you need to ensure that the door fits properly and that seals are used to prevent air leaks.

Ceilings can be a problem, especially if you share loft space with next door, but adding a thick layer of rockwool between the joists will help (you should have this anyway for thermal insulation), as will boarding over the joists inside the loft. One effective treatment is to put a layer of dry sand over the boarding in the loft, but you have to be very careful not to put more weight up there than the joists can support. A hundred kilos or so should be no problem, but don't put

any more up there without consulting a builder.

For the live acoustic room, a few thick drapes should help tame the worst of the ringing. Try just covering patches of the walls, leaving at least 50 percent bare and reflective: if you can arrange the drapes on rails, you'll be able to modify the acoustics as needed. A rug covering part of the floor may also help — you can take this up when you want a live sound for recording acoustic guitar. Acoustic tiles may also be used, but you can't move these around so easily. Don't worry about the soundproofing unless you have problems, but remember not to tap your feet as you play, as this can cause more of a nuisance than the music itself! ▽

DATascene conversion

So I've got my ADAT, I've got my Power Mac, I've got Cubase Score VST, I've got my Korg 12/12 card, I'm all linked up and everything is working well but have I really got to tell my wife that I need to spend even more money? The ADAT (original type version 4.03) is set as the clock source and is therefore running at 48kHz, and so when I've mixed and 'fiddled' in Cubase I have a 48kHz stereo file. Now comes the problem...

My CD duplication plant wants the DAT at 44.1kHz, but my DAT only accepts digital input at 44.1kHz or analogue input at 48kHz, so I need to convert my files from 48kHz to 44.1kHz in order that I can transfer them to DAT digitally. I've conducted a search on the Internet and looked at news groups and discovered shareware programs for PCs that would seem to do the job, but there doesn't seem to be one for



The now-discontinued Alesis AI-1 provides high-quality conversion between different sample rates.

the Mac — so can you or anyone else help me with my dilemma or do I really have to buy an external converter? I haven't got a bottomless wallet — then there's my wife, who keeps reminding me that I've said countless times that I won't need to buy anything else... Roy Griffiths
via email

Editor Paul White replies: *Buy your wife something nice, then see if you can pick up a second-hand Alesis AI-1 box — though to be honest, it may be cheaper to buy a new DAT machine that can record analogue 44.1kHz, such as the Tascam DA20*

Mk II. The AI-1 can convert 48kHz to 44.1kHz and vice versa, as well as allowing track pairs to be copied between an ADAT and a regular DAT machine. Alternatively, (and providing you have lots of free hard drive space) you could use a program such as Sound Designer II to convert the sample rate of your file within the computer. If anyone out there knows of any shareware or freeware that will do the job, please let us know.

Assistant Editor Sam Inglis adds: *I'm told that the freeware Mac program SoundApp PPC, which you can download from www-cs-students.stanford.edu/~franke/SoundApp/, will allow you to resample*

48kHz files at 44.1kHz. There are several other Mac-related web sites offering similar shareware or freeware programs — take a look at www.partnersinrhyme.com/Mac/MacSoundUtilities.html and www.host.ots.utexas.edu:8080/mac/pub-mac-sound.html.

Alternatively, if you do decide to buy a hardware sample-rate converter, check out Dave Shapton's review of the Sony MDS JDE520 on page 52. For around £200 you not only get the sample-rate converter, but also a 20-bit analogue-to-digital converter and a high-spec Minidisc recorder. Sounds like a good deal to me... ▽ ▶

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Crosstalk

You're too kind...

First of all, I would like to start with the usual: you have a great magazine, and that's the truth. I've tried several others, but I found yours the best. However, I find that almost all of your reviews are very favourable. I don't know what the reason is. Maybe the stuff you choose to review is the best there is, or maybe all high-end music production stuff is good these days! But I find that hard to believe. I think that you *must* do more comparisons. I, like most people, often find myself facing a problem like 'what microphone to buy?' or 'what synth do I need?' and so I would very much like a side-to-side comparison.

But now to my real question: my main synth at the moment is a Roland SCC 1b, which is a computer soundcard. My problem is that it is very noisy, whereas in comparison, my Event Gina is dead quiet. How can I try to minimise the noise? I've tried putting the Roland in different slots and changing the video adaptor slots, but nothing helped. The problem seems worse when the computer gets hot (in the winter, the sound was less noticeable!). I also tried changing the cables that connect the SCC to my mixer, but that didn't work. My computer setup consists of said SCC 1b and

Gina soundcards, a modem, a video card (ATI), and two hard disks (one 1.7 and one 4.3Gb).

Of course, I guess the best thing would be simply to buy a separate module for the sounds. I would like to buy something that resembles the Roland, to maintain the sounds I used in my MIDI compositions. Which, if any, of the Sound Canvases would you recommend?

Ron Mertens
via email

Editor Paul White replies: *Firstly on the subject of 'favourable' reviews: while I admit that there is very little gear around these days that can be written off as actually bad, our reviews are designed to show the strengths and weaknesses of each piece of gear we test, and if we feel the price is too high, we say so. The problem with doing comparative reviews on things like synths and mics is that different people expect different things from them. For example, you could take two mics with the same price and technical specification yet find that one works best with vocalist A while the second works best with vocalist B. The same is true of processors such as compressors, equalisers and multi-effects, and similar problems arise when you try to compare*

synths: some people want a perfect emulation of real life, while others want abstract sounds, and I'll bet no two

people agree on what constitutes the definitive string sound. Technical imperfections such as noise are a different matter, and

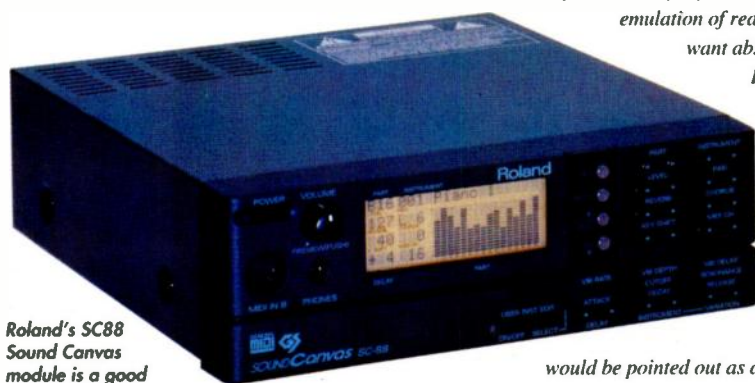
would be pointed out as a flaw.

On a purely logistical front, doing side-by-side

reviews would mean waiting until several products of roughly the same type were available, whereas at SOS we like to keep our reviews as up to date as possible. The only practical way to present several products at once is in a round-up, usually several months after the products were first reviewed.

Moving on to your noisy soundcard, it sounds as though you've tried all the obvious things like moving to a different slot and keeping bunches of cables away from the card. The inside of a computer is a very noisy environment and it takes a good designer to optimise both the soundcard circuitry and earthing arrangements in order to minimise noise pickup. Unfortunately, a great many budget audio products do not follow best practice when it comes to circuit board layout, especially grounding, but unless you have the expertise to track down the problem yourself and modify the circuit board, I'm afraid you're stuck with it. Perhaps more users should make it known to synth and soundcard manufacturers that they are unhappy about buying products unless they're supplied with a proper technical spec that includes their noise performance. While most cards now come with some form of basic spec, the majority of stand-alone synths tell you nothing.

If you want the definite Sound Canvas, the new SC880 is supremely impressive (see review last month), though sadly not cheap. Even the more modest SC external modules are surprisingly good, though, and a second-hand SC88 would be a good investment. You might also consider a Yamaha MU10 GM/XG module, as these are being sold off very cheaply at the moment, and they sound lively and clean as well as being a little more upfront in character than the Roland. You should be able to get an 'end of line' unit for around £120 or less. Harking back to my first point, I can't tell you whether the Roland or the Yamaha GM sounds are better (I use both) — they're just different, and each faction has its champions and detractors. □



Roland's SC88 Sound Canvas module is a good second-hand buy.

Neat(o) solution

In his review of the Neato Label system (August '98 issue), Paul White found the system worked well but he had problems with curling labels. Neato's web site offers the solution for this: having unpicked a tiny bit of the edge of the label, put the label face down on a flat surface and peel the backing off the label rather than the label off the backing. No, I didn't believe it either, but it works a treat and gives nice flat peeled labels which never bubble. □

Roger Derry
via email

Dicing with DAT

In response to Rob Kirkwood's letter about DAT (Crosstalk August '98): there is a production quality difference in audio DAT and data DAT, although it is slight. It is highly likely that one can use audio DATs in data DAT backup machines with very little noticeable problem. However, it should be pointed out that data DAT machines 'play' at a totally different speed and use a totally different encoding technique to audio DATs, so it would be very difficult to store audio information using a data DAT machine. A sample rate drop would be the only solution, unless some kind of ultra-compact compression is developed. Also, data DATs are pulled around far more ferociously

in a data DAT backup machine than their audio equivalent, meaning that data DATs are made stronger than audio DATs (or at least they are supposed to be!). The heads on data DAT machines are also different to the heads on audio DAT machines. Using data DATs in an audio machine will cause excessive wear on the heads of the audio machine as the construction of the tape, and the way in which magnetic particles are attached to the surface, are subtly different. It is akin to using normal VHS tapes in an ADAT — it will work, but it'll end in tears! □

Richard Aitken
via email

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■ **One mixer. Five physical configurations to fit your space and applications.**



Only the CR1604-VLZ can be switched



in minutes from a table top or rack-mount mixer with input/output jacks on the top (1 & 2) to a space-conserving 8-rack space mixer with jacks to back (3) — rack rails are included. Add our optional RotoPod-VLZ bracket and rotate the input/output pod to the same plane as the mixer's controls (5 & 6) for patching-intensive applications.

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■ **Solid steel main chassis.** Not aluminum. Not plastic.

■ **More aux send gain.** All six CR1604-VLZ sends on each channel have 15dB more gain after Unity. This lets you boost weak effects or create a "super-wet" sound.

■ **Musical, natural EQ with sweepable midrange.** Others have copied our frequency points, but nobody can equal our sound.

■ **Plus every channel has a true 18dB/oct. low cut filter** that lets you use LF EQ on vocals without boosting mic thumps infra-sonics and room rumble.

■ **Hypersensitive Signal Present LED** on every channel.

■ **Very Low Impedance (VLZ) circuitry** uses high current and low resistor values to dramatically reduce thermal noise and crosstalk. A Mackie Designs exclusive with very audible benefits.

■ **Feature for feature,** the most versatile, flexible, CREATIVE master section of any compact mixer.

■ **The definitive, big-console-quality mic preamps** with all discrete (no hybrid) circuitry, astonishing headroom and a real, verifiable E.I.N. (noise) spec of -129.5 dBm. When you compare mixers, bring a familiar condenser microphone and prove to yourself just how much better our mic preamps sound.

If imitation is the sincerest form of flattery, we have a lot to be flattered about. But now that some competitors are even borrowing our ad copy, we figured it was time to come up with a devastatingly nasty come-back.

■ **Greg Mackie** put a quick stop to that idea. He pointed out that the REAL test of a mixer is how it sounds. And the more you listen, the more our CR1604-VLZ's low noise, high headroom, pristine mic preamps & natural EQ put it ahead of the pack.

■ **Sound quality, Greg pointed out, is why the CR1604-VLZ has a longer roster of famous users than any other 16-channel compact mixer... major**



Musician Magazine thinks the original is clearly the best.

groups & artists, Emmy-winning TV composers, Academy Award-

winning sound engineers, network news & sports departments. So why dis the competition?

■ **Call your Mackie distributor for complete info and that long list of famous users. Then make your final mixer buying decision with your ears. Anyone can write an ad. Only Greg can make a mixer as good as the CR1604-VLZ.**

Below a few of the 100+ folks (and one incumbent Chihuhua) who work at Mackie Designs in Woodinville, WA 20 miles north of Seattle

Represented in the UK by:

Key Audio Systems Ltd. 37 Robjohns Road Chelmsford Essex CM1 3AG

Tel: 01245 344001 Fax: 01245 344002 email: info@keyaudio.co.uk Web: www.keyaudio.co.uk/keyaudio



www.mackie.com • email: sales@mackie.com
MACKIE

All products made in Woodinville USA by certified Mackoids



shape of things to come:

by Derek Johnson



New BOSS Drum

There's a new drum machine on the way from Boss. The DR202 Dr Groove features 256 drum, percussion and bass sounds, developed, say Boss, "for groove music production from hip-hop to jungle, drum&bass, house, latin and more".

Facilities include:

- 24-voice polyphony.
- 128 preset kits (sourced from 207 drum and 49 bass samples).
- Over 400 preset patterns in various 'groove' styles.
- Real-time and step-time pattern programming.
- Quantisation, including groove quantise.
- Real-time control knobs for on-the-fly sound tweaking.
- Rhythm mute function for dropping out individual instruments and creating breaks.
- Tap Tempo control — tap along to the beat of a record or live music and have the DR202 match the tapped tempo.
- Low boost/cut control.

The new drum machine will also transmit MIDI controllers and can be

battery powered. It's set to retail for just £299 and should be available sometime in October.

Roland have also announced that they've licensed their Sound Canvas sound set and the GS extended General MIDI format to Apple Computer, for use in QuickTime 3.0 (see this month's Apple Notes on page 244), and to Microsoft, for use in their Direct Music API. The latter provides PC users who have only standard soundcards with access to a soft synth using the same technology as Roland's VSC88 virtual Sound Canvas. Composers for CD-ROMs or web sites will be able to write with a Roland Sound Canvas knowing that anyone with the soft synth installed will hear the music faithfully replayed. Versions of Windows 98 equipped with the GS soft synth are due any time now, and existing users will be able to upgrade.

A Roland UK Ltd, Atlantic Close, Swansea Enterprise Park, Swansea, West Glamorgan SA7 9FJ, UK.

T Brochure line +44 (0)1792 515020.

F +44 (0)1792 799644.

W www.roland.co.uk

Emagic's Soft Circuit

UK Emagic distributors Sound Technology are taking the *Logic* range on tour. There'll be plenty of opportunities for you to check out the facilities of the new *Silver*, *Gold* and *Platinum* versions of *Logic Audio*, Emagic's MIDI + audio sequencer, on the following dates:

- September 17: TSC Brentford (0181 400 9400).
- September 21: Music Connections, Leeds (01943 850533).
- September 22: Music Connections, Birmingham (0121 212 4777).
- September 23: Music Connections, Herts (01462 743300).
- September 24: Music Connections, Chelmsford (01245 354777).
- September 25: Music Connections, Chelsea (0171 731 5993).
- September 28: Music Connections, Southampton (01703 233444).
- September 29: Music Connections, Bristol (0117 946 7700).
- October 3/4: Hemel Hempstead Home Keyboard Show (0181 441 1050).
- October 10: Sound Control, Bristol (0117 934 9955).
- October 18/19: Ashford Home Keyboard Show (01304 375028).
- October 24: Sound Control, Bristol (0117 934 9955).
- October 31/November 1: Mad About Guitars Show, Birmingham (01353 665577).
- November 14/15: Stevenage Home Keyboard Show (01920 460646).
- November 21 & December 12: Turnkey, London (0171 379 5148).

A Sound Technology, Letchworth Point, Letchworth, Hertfordshire SG6 1ND, UK.

F +44 (0)1462 480800.

W www.soundtech.co.uk

Tubular Sells!

Audio Technica's AT4060 tube mic has been designed with input from many professional recording engineers. The result combines modern design with vintage valve technology to produce a pro studio mic with low self-noise, high SPL handling, and applications in all situations, from guitar cabs to pianissimo strings. Each hand-selected valve is aged and individually tested, and dual gold-vaporised large diaphragm elements help to provide extended frequency response. Expect a review in *SOS* soon.

A Audio Technica, Technica House, Royal London Industrial Estate, Old Lane, Leeds LS11 8AG, UK.

T +44 (0)113 277 1441.

F +44 (0)113 270 4836.

E sales@audio-technica.co.uk



Yamaha Hot News



SOS brings you exclusive advance news of the forthcoming MU128 compact desktop General MIDI/XG synth. Featuring a whopping 128 notes of polyphony, 64-part multitimbrality and compatibility with up to three PLG-series SW1000XG daughterboards, the new module has a paper spec unlike any other synth. Polyphony and multitimbrality are exceptional for a synth in this market, but it may be the expandability that'll make many musicians look twice: the daughterboards include the PLG100VL virtual acoustic modelling card, the PLG100DX DX7 FM card, and the PLG100VH vocal harmoniser card. The

basic machine also offers thousands of XG-compatible patches, a massive 24Mb of waveform ROM with hundreds of new orchestral voices, and seven (yes, you read it right, seven) internal effects processors. Of course, there's a computer serial connector at the rear, and the module is bundled with a CD-ROM full of software: *XGworks Lite v2.0* for PC (plus a plug-in bundle), *CBX* serial driver, *XG Editor* for Mac, and a collection of demo MIDI files.

If you're already a Yamaha XG user, there's still a little time left for you to enter *XG SoundWorld 98*, an international competition with 200,000 yen in cash plus a 300,000-yen voucher for Yamaha musical instruments as a

grand prize — that's a total value of about £3500. The competition is also open to HTML programmers, since the prize is for an XG composition that shows off your XG programming skills in any format. So if your home page uses *MidPlug* (Yamaha's internet browser MIDI plug-in), you've created something with *SoundVQ* (Yamaha's on-line audio system), or you've composed something really interesting with a QY700, for example,

you can enter. But move quickly: the closing date is October 31.

- A** Yamaha-Kemble Music, Sherbourne Drive, Tilbrook, Milton Keynes MK7 8BL, UK.
- T** Product Info Line +44 (0)1908 369269.
- F** +44 (0)1908 368872.
- W** www.yamaha.co.uk
- W** XG SoundWorld 98 www.yamaha-xg.com/english/xg/sw/index.html

Get your hands on HUI!

It's been a long time coming, but Mackie's HUI (Human User Interface) hardware control surface for Digidesign Pro Tools systems has arrived. The first units have been installed and are already in use in Pro Tools facilities around the country. HUI offers full compatibility with Pro Tools 4.1 systems, taking the mixing process off the screen and onto an ergonomically designed and familiar work surface. Features include eight 100mm touch-sensitive motorised faders and eight virtual pots, which are assignable in banks to different Pro Tools tracks, plus electronic scribble strips on every channel to show track allocation. A dedicated effects panel is provided for hands-on control of plug-in parameters, and the package is rounded off by a built-in meterbridge, complete analogue monitoring facilities (with talkback) and surround sound capability.

- A** Key Audio Systems Ltd, Unit D, 37 Robjohns Road Chelmsford, Essex CM1 3AG, UK.
- T** +44 (0)1245 344 001.
- F** +44 (0)1245 344 002.
- E** info@keyaudio.co.uk

Senders Victorious

SOS is pleased to announce the results of two of our previous competitions. It's been a long wait but a rewarding one for Adrian Hall of London, who wins a Sony TCD D8 portable DAT recorder which would have cost him over £600 in the shops. This was the prize in our July '97

competition, thanks to the generosity of FX Rentals (+44 (0)181 746 2121).

Also on to a winner is Stephen McGoran of Sutton in Surrey, whose entry in our November 1997 competition was plucked from the postbag by our distinguished panel of judges (*it says here — Ed*). Stephen walks



Adrian Hall.

away with a Yamaha CS1x synth, a VL70m physical modelling synth module and a BC3 breath controller, which, as you can see from his photo, have settled very nicely into his home studio! These superb prizes were kindly donated by Yamaha-Kemble Music (+44 (0)1908 366700). Keep those competition entries coming in, and your gear list could soon be growing too...



Stephen McGoran.

shape of things to come

web corner



Roland's Music Village.

Roland UK have completed a radical overhaul of their web site, which now takes the form of an animated "music village". As your mouse pointer passes over the graphics of club, school, homes, studio, radio station and church, the village comes to life, complete with music. Clicking on a musical instrument opens a link to an online catalogue of 350+ Roland and Boss products, some with audio demos, and brochures and free demonstration CDs can also be ordered on-line. FAQs (Frequently Asked Questions) about Roland equipment can be accessed, and direct email contact with Roland's Product Support team is offered. A Download area hosts new software versions which can be downloaded free of charge, and there are news pages and details of Roland roadshows and demonstrations. Finally, there's a dedicated education page which will be supported by a panel of experts answering questions regarding the use of music technology in education.

A Roland UK Ltd, Atlantic Close,
Swansea Enterprise Park, Swansea,
West Glamorgan SA7 9FJ, UK.
T Brochure line +44 (0)1792 515020.
F +44 (0)1792 799644.
W www.roland.co.uk

L looks like autumn is web site overhaul time: Soundcraft have been at it too, extensively remodelling www.soundcraft.com, with high-quality images and data files for all Soundcraft audio consoles. Soundcraft have also produced an Interactive Catalogue on CD-ROM, which features



Soundcraft's web site.

detailed information on all their current products, images, technical data sheets and listings of distributors and users.

A Soundcraft Electronics Ltd, Cranborne House, Cranborne Industrial Estate, Cranborne Road, Potters Bar, Hertfordshire, EN6 3JN, UK.
T +44 (0)1707 665000.
F +44 (0)1707 660482.
W www.soundcraft.com

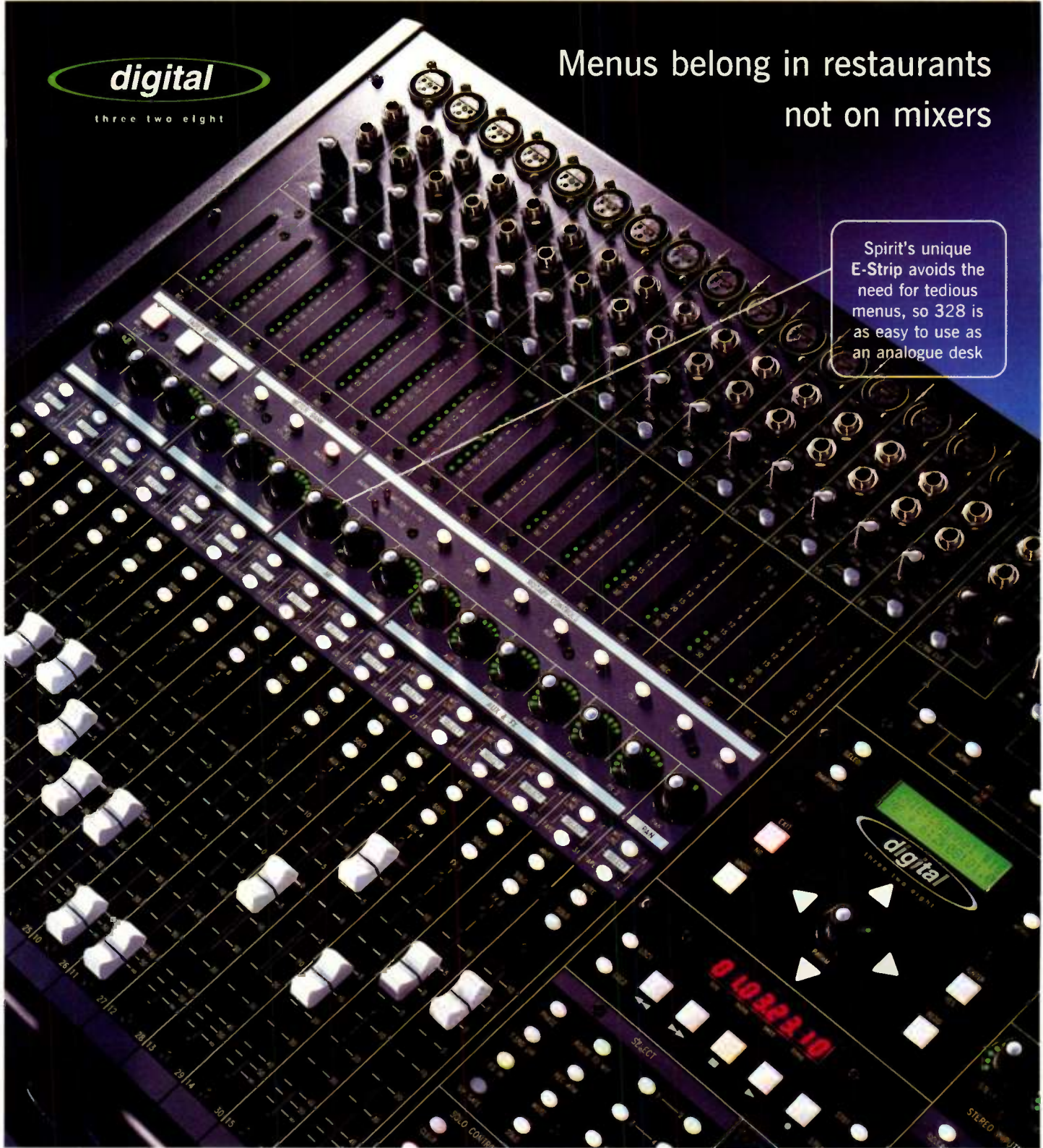
SPIRIT DEALER LIST

ABERDEEN	RnB Music	01224-210121
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BARNSTAPLE	Soundpad	01271-323686
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BINGLEY	Spekre Sound	01274-568943
BIRMINGHAM	Musical Exchanges	0121-236 7544
BIRMINGHAM	Q Music	0121-643 4655
BIRMINGHAM	London Microphone Centre (LMC)	0121-359 4535
BLACKPOOL	Tower Music	01253-27359
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CAMBRIDGE	Musical Village	01223-316091
CARDIFF	Gamlins Music Centre	01222-220828
CARDIFF	Musicaland	01222-621715
CARLSLE	AVI	01228-45599
CHESTER	Dawsons Music	01244-348606
COLCHESTER	Axe Music	01206-765652
COVENTRY	Musical Exchanges	01203-635766
CROYDON	Digital Village	0181-407 8444
DERBY	Play It Again Sam	01332-348156
DONCASTER	Electro Music Services (EMS)	01302-369999
DUBLIN	Control Techniques Ireland (CTI)	003531-454 5400
DUBLIN	Sound Communications & Electrical	003531-450 7324
DUNDEE	Sound Control	01382-225619
DUNFERMLINE	Sound Control	01383-732273
EASTBOURNE	Bonnars Ltd	01323-639335
EDINBURGH	Sound Control	0131-557 3986
EDINBURGH	The Warehouse	0131-555 6900
FAREHAM	The Audio Connection	01293-235566
GLASGOW	The Warehouse	0141-950 1757
GLASGOW	Sound Control	0141-204 0322
GRIMSBY	PSS Music	01472-343211
GUILDFORD	Andertons Music Co.	01483-457777
HEYWOOD	Wigwam Acoustics Ltd	01706-363400
HIGH WYCOMBE	Percy Pianos	01494-528733
HOUNSLOW	Project Music	0181-570 4444
INVERNESS	The Music Station	01463-225523
KIRKCALDY	Sound Control	01592-260293
LANCASTER	Low Fold Audio	0113-240 5077
LEEDS	Carlisle Academy of Sound	0113-262 4183
LEICESTER	Carlisle Academy of Sound	0151-486 2214
LIVERPOOL	Ad Lib	0771-579 5148
LONDON	Turnley	0181-743 4680
LONDON	London Microphone Centre (LMC)	0181-886 1000
LONDON	Gradiv Theatre Services	0181-900 8288
LONDON	Raper and Wayman	0181-962 5000
LONDON	HHB Communications Ltd	0171-482 1692
LONDON	Studio Spares	0171-609 3939
LONDON	Soundvision	0171-388 5392
LONDON	Music Lab	01777-821242
LONDON	DM Music	0161-236 0340
MANCHESTER	A1 Music Centre	0161-877 6262
MANCHESTER	Sound Control	01524-410202
MORECAMBE	Promenade Music	0191-232 4175
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NEWTOWN	Mid Wales Music	01604-21525
NORTHAMPTON	Willow Communications	01603-668891
NORWICH	Carlisle Academy of Sound	0115-9581888
NOTTINGHAM	Carlisle Academy of Sound	01691-658550
OWESTRY	Systems Workshop	01865-249083
OXFORD	PMT	01733-223535
PETERBOROUGH	B&H Sound Services	01733-555506
PETERBOROUGH	The Live Music Shop	01705-660036
PORTSMOUTH	Nevada Music	01772-204567
PRESTON	A1 Music Centre	01425-470007
RINGWOOD	The M Corporation (TMC)	01425-480698
RINGWOOD	AJS Theatre & Lighting Supplies	0181-688 9506
ROMFORD	Musical Village (Chadwell Heath)	01142-640000
SHEFFIELD	Carlisle Academy of Sound	01832-568777
SHEPPERTON	Marquee Audio	01702-436501
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STOCKPORT	Dawsons Music	01782-305100
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STOKE-ON-TRENT	Music Control	01782-775751
SWANSEA	The Music Station	01842-766325
THETFORD	Thetford Music	01882-515007
TUNBRIDGE WELLS	JB's Music Stores	0181-744 1040
TWICKENHAM	Way Out West	01924-377766
WAKEFIELD	ICM Studio Specialists	01925-632591
WARRINGTON	Dawsons Music	0191-416 2385
WASHINGTON	Vamps	01923-246282
WATFORD	Active Sound	01942-244680
WIGAN	Dawsons Music	01962-865253
WINCHESTER	Whitwams	

digital
three two eight

Menus belong in restaurants
not on mixers

Spirit's unique E-Strip avoids the need for tedious menus, so 328 is as easy to use as an analogue desk



42 Channel Digital Mixer with the Human Touch

MAIN FEATURES: Up to 42 Inputs at Mixdown
8 Bus 16 Mic/Line inputs with Inserts and HPFs
16 Digital Tape Returns with 2 x ADAT Optical and 2 x Tascam TDIF connectors as standard. All inputs have access to 3 Band Parametric EQ, 4 external Auxes, 2 Lexicon Effects Sends and Pan via the E-Strip
5 pairs of Stereo Inputs and 2 Internal FX Returns
24 Bit A/D and D/A Converters with 128 x oversampling throughout. Moving 100mm Faders throughout. 2 x Lexicon Dual Programmable Effects Units. 2 x Assignable Mono/Stereo Dynamics Processors with Compressors, Limiters, Gates & Duckers. Snapshot Automation with recalling of all main console parameters for up to 100 scenes. Dynamic Automation capability Undo/Redo, Copy & Paste functions. Solo-in-Place, AFL & PFL Slices. Full Metering and Monitoring of all Inputs, Processors, Auxes and Masters. Full Machine Control capability with large Timedisplay. 2 Consoles cascadable for 84 inputs at mixdown and 32-track recording. Third ADAT Optical Output for Groups or Aux Masters + 2 x AES/EBU and 1 x SPDIF gives 26 Digital Outs and 20 Digital Ins. **OPTIONS:** TDIF 8 Channel Analogue I/O Interface. TDIF Mic Preamp Interface - 8 Mic Preamps with Insert, Gain, HFF and Direct Out. TDIF AES/EBU Interface - 4 pairs AES/EBU I/Os for Hard Disk production systems

H A Harman International Company

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Address:	
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Check out the Spirit Website: http://www.spirit-by-soundcraft.co.uk	



shape of things to come

Cakewalk pick a Winner



Cakewalk's latest piece of software is claimed to be the first package aimed specifically at guitarists: *Guitar Studio*, for PCs running Windows 95 or NT 4.0, offers MIDI sequencing and eight tracks of digital audio recording with an interface aimed at guitarists. Cakewalk claim "seamless" integration with Roland's GR30

MIDI guitar synth (or Fender's Roland-Ready Strat — a Stratocaster with a Roland divided MIDI pickup built in), and the screen features guitar-like elements. You can even compose and arrange MIDI tracks using a virtual guitar fretboard. On the audio front, real-time effects include chorus, reverb and delay, and a built-in tuner, which lets you tune your instrument with on-screen help.

Guitar Studio also lets you print your work out, complete with guitar chord grids and lyrics. For moments when inspiration is lacking, the software can create new backing tracks automatically, using the Song Wizard: preview and select from a full library of drum loops, grooves and bass lines, in both MIDI and audio formats, and pick and choose until you like what you hear, then just choose

the desired number of bars and set the tempo. You need — besides your guitar — a 120 MHz Pentium PC or better, 12Mb RAM (32Mb for NT4.0 systems), a Windows-compatible soundcard and a MIDI interface.

A Et Cetera Distribution, Valley House, 2 Bradwood Court, St Crispin Way, Haslingdon, Lancashire BB4 4PW, UK.

T +44 (0)1706 228039.

F +44 (0)1706 222989.

W www.etcetera.co.uk

Ensoniq's Red Alert

The successor to Ensoniq's ASRX sampling, sequencing drum machine/synth (reviewed in *SOS* September 1997) is called... the ASRX Pro. The new-look instrument sports a funky new red colour scheme, and offers a number of improvements over the original. Firstly, its sample RAM is expandable to 66Mb, which yields 12 minutes of mono or six minutes of stereo 44.1kHz sampling. Operating system upgrades are now easier, since the OS is stored in Flash RAM. A SCSI socket was optional on the original machine: it's standard issue on the Pro. Use it to hook up a removable drive, such as an Iomega Jaz or Zip, or connect a CD-ROM drive to take advantage of the Pro's compatibility with Akai, Roland, and Ensoniq's own EPS and ASR10 sample libraries. The ASRX Pro can also read AIFF and WAV-format samples.

Another totally new feature is Stomper, a built-in software synthesis program that "makes faithful reproductions of classic electronic drum machines — and

even phatter sounds!" The new machine is still compatible with original option wave and audio output expansion boards.

A Emu Ensoniq London, Pinewood Studios, Pinewood Road, Iver, Bucks SL0 0NH, UK.

T +44 (0)1753 630808.

F +44 (0)1753 652040.

W www.emu-ensoniq.com



An incorrect price was given to *SOS* staff during the preparation of the Alesis M20 review in last month's *Sound On Sound*, and the wrong price was published. The M20 actually retails for £5873.83 including VAT, not £7044.13 as stated. Apologies to Alesis and their UK distributor Sound Technology.

Following Paul White's comments about the lack of metering on the FwS ColOSCII ring modulator (see review in last month's *SOS*), Dr Douglas Doherty of DACS, the manufacturing company, has written to let us know that he has revised the design of the FwS series in the light of Paul's concerns. All units in the FwS series will now have metering on the Modulator and Music inputs to the processor (after the equaliser controls on the latter input). The Modulator input meter on the ColOSCII and the forthcoming FREQuEs EQ will show either the external input or the internal oscillator, whichever is selected. The metering will consist of two LEDs: the lower in each pair will be green, illuminating initially around -40dB and reaching maximum brightness at +2dB, while the upper one will be amber and will illuminate at around +2dB, indicating optimum signal input.

T DACS
+44 (0)191 438 5585.

Italian software house FASoft have released a DirectX-compatible plug-in parametric EQ for PC users. Dubbed *4-Band ParEQ*, the software offers real-time EQ for mono and stereo files, with support for both 16- and 24-bit audio. Compatible applications include FASoft's own *n-Track Studio*, Sonic Foundry's *Sound Forge*, Steinberg's *Wave Lab* and many more. The cost of *4-Band ParEQ* is just US\$15.

A Flavio Antonioli, via Focilide 44, 00125 Rome, Italy.

T +39 (0)6 5235 4431.

E Flavio.Antonioli@flashnet.it

W n-track.simplenet.com

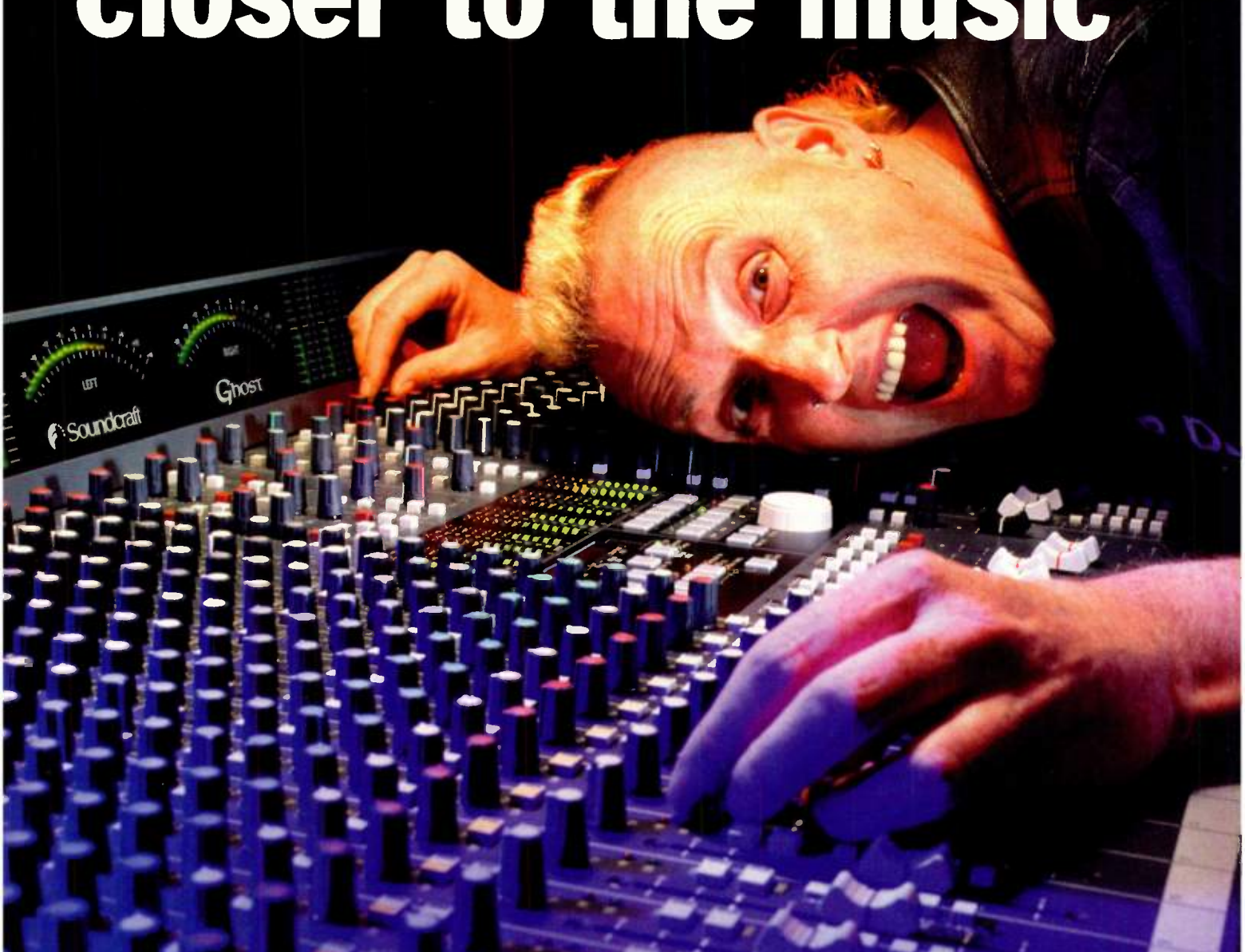
Coda Music Technology and Et Cetera are offering owners of Passport's *Rhapsody* and *Encore* PC scoring software a chance to crossgrade to Coda's *Finale 98* for £98. That's a saving of over £350. And to make sure users of the Passport software can port their old notation files to the new software, a £5 file converter utility will be available. These special offers will end soon, so move fast.

T Et Cetera
+44 (0)1706 228039.

SOS can be reached at
sos.feedback@sospubs.co.uk

Our web site address is
www.sospubs.co.uk

Ghost gets you closer to the music



When it comes to music recording, sound quality is everything. So perhaps it's no surprise that most of the world's top studios insist on analogue technology when it comes to mixing consoles.

Now, thanks to Ghost, you can too.

With a pure, sweet analogue signal path, Ghost is a flexible, instant access, 8-bus console that's ready to work whenever you are. And despite its 'project studio' price tag, Ghost is packed with 'big studio' features like ultra-quiet mic preamps, classic 'British' EQ, external machine control and advanced mute automation.

So get closer to your music. Get close to a Ghost.



www.soundcraft.com

Ghost

Soundcraft +44 (0)1707 665000
Soundcraft US 1-615-360-0471



A Harman International Company

Canterbury College is providing a variety of eight-week courses covering basic MIDI sequencing and Digital Audio, as well as their two-year full-time BTEC National Diploma in Music Technology. In addition, a one-year BTEC first diploma is planned for the forthcoming year (subject to approval). Due to the success of the courses, the current facilities are being expanded and updated to include two large teaching rooms with individual workstations, and a purpose-built live recording studio. For more information, contact admissions at the address below.

A Canterbury College,
New Dover Road,
Canterbury, Kent CT1 3AJ, UK.
T +44 (0)1227 811188.

Distribution for KRK monitors has been taken over by recording media specialists ProTape, which means that the UK contact details on the end of last month's KRK V8 review are already out of date! Contact ProTape for details of the full range, including the V8 and spares.

T ProTape
+44 (0)171 323 0277.

SOS's July '98 review of the Doepfer A100 modular synth stated that the A100 modules could be bought in kit form. This was intended to convey that the modules could be bought individually and customised systems put together, but it gave the impression that modules themselves could be bought in kit form and the components assembled by users. UK distributors EMIS have asked us to clarify the situation. Apologies for any inconvenience.

T EMIS
+44 (0)117 956 1855.

One of the few shortcomings of Emu's Audity 2000 synth module (reviewed in SOS August 1998) was its 32-voice polyphony — this just didn't seem enough for a late '90s instrument with 16 arpeggiators and a sophisticated synth engine. This has now been rectified with the synth's v2.0 software upgrade. Patches using 6-pole filters will play with 64-voice polyphony; use 12-pole filters and the total is 32 voices again, but new technology lets the Audity dynamically switch between 6 and 12-pole filters based on voice count. The new operating system also allows new software to be piped into the synth via MIDI. Until the end of October, the v2.0 upgrade is available free to all Audity 2000 owners; after that, it'll cost £157.

T +44 (0)1753 630808.
W www.emu.com



Digitech in Full Effect

Digitech's new Quad 4 multi-effects processor offers the equivalent of four separate processors, and its four sets of in and outs mean that up to four signals can be processed at the same time. The processor boasts 20-bit A-D and D-A converters and flexible effects configurations with a choice of multiple in/out routings. Any effect can appear at any point in the effects chain, and the choice of effects includes compressor, rotary speaker, spring reverb, up to 5.5 seconds of delay, reverse delay, vocoder, stereo or mono sampler, envelope filter, and more. True stereo operation is possible, and there are 100 memories for user patches; 100 presets are also provided.

The Vocalist range of harmony processors has also been expanded by Digitech: the new Vocalist Access is a 1U rackmounting device specifically designed for keyboard players. It's claimed to be simple to use, yet offers four "natural-sounding" harmony parts, plus a four-voice detuning mode to provide vocal thickening or doubling. The Access also features several built-in reverbs.

Lastly, Digitech have launched their first ever dedicated bass guitar processor, the BP8. Alongside its collection of studio-quality effects such as reverb, pitch-shift, chorus, delay, flange, and so on, the BP8 features a fully programmable analogue compressor, with a choice of 12AX7 valve or solid-state preamps, 4-band EQ, and adjustable notch filter. An onboard continuous controller pedal can be used to modify parameters in real time, and the BP also features a built-in tuner.

A Arbitr Music Technology,
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Euphonix 'R' Go!

You probably know the name of Euphonix from their high-quality professional mixing consoles, but the company are now moving into digital recording with the announcement of the R1 24-bit digital multitrack system. The aim for the company was to provide a user-friendly transition from analogue or digital tape to hard disk, maintaining a familiar user interface while providing improved "sound quality, reliability and operational efficiency". Euphonix's acquisition of digital recording specialists Spectral Inc. in 1996, helped to supply "much of the key technology" Euphonix needed to complete the recording aspects of the system, but the company have also used their experience in mixing and digital control in the development of the R1.

Base systems (from around £15,000) offer 24 tracks and include a full-featured remote control and MADI (Multi-channel Audio Digital Interface). High-speed Firewire interfaces are provided on each R1 system component, and the system is optimised for use with 9Gb Wide SCSI drives, which provide about the same recording time as two standard reels of 24-track tape. Analogue Devices SHARC DSP chips provide 40-bit floating point audio processing.

The R1 is described as modular and scalable, so systems can be expanded or reconfigured, and it will offer all the benefits you'd expect from a hard disk system — random access, instant locating and looping, cut-and-paste editing, and non-destructive recording. Expect it to be available from early 1999.

Going back to Euphonix's core mixer business for a moment, we've just heard that their *Mixview* software, for the CS series of mixers, has been upgraded to v3.2. Enhancements include better 5.1 surround sound handling, and a comprehensive automation-editing suite of tools specifically designed for the Euphonix Hyper-Surround panning system. You can now be trained on a Euphonix console — a 48-input CS3000, to be precise — at audio engineering college Alchemea. The digitally controlled analogue desk has just been installed in Alchemea's Control Room One.

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shape of things to come

The Synth's in the Post...

The recent CeBIT Home 98 show in Hannover was the venue for the launch of Edirol Europe. Edirol is run by Roland as a mail-order operation specialising in the Sound Canvas family of products and computer music peripherals, and has been established in North America for some time. The company is now

making moves into desktop digital video, with the Video Canvas line, and details of their full range can be found in the Edirol European Buyer's Guide. Just write, call or email for your free copy — contact details below.

A Edirol (Europe) Ltd, 500 Chiswick High Road, London W4 5RG, UK.
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Dynaudio goes down well with Prodigy

Dynaudio Acoustics have released a new sub-woofer specifically targeted at the burgeoning 5.1/multi-channel surround sound market. The BX30, as it is called, is a development of the popular ABES sub-woofer unit, launched four years ago, which is now in widespread use in many recording and audio post-production facilities. The new BX30 is also equally at home as a sub-bass unit in smaller project studios where the nearfield monitoring needs an extension to its frequency response and power handling. Crossover electronics are incorporated into the design, along with a 140W power amp, and the unit can handle frequencies down to 22Hz. The UK list price for the BX30 is £1510 including VAT.

Techno funsters The Prodigy have installed a Dynaudio M3A monitor system, complete with two custom-built sub-bass units, in their new private songwriting studio in Essex. The Prodigy are currently using the studio to prepare tracks for their next album — a follow-up to last year's million-selling *The Fat Of The Land*. The Dynaudio monitor system incorporates the new XTA 226



Liam Howlett of The Prodigy shows off their new monitors.

digital 2-input, 6-output crossover, Chord 1424 and 612 mono block amps and the new DCA 1250 amp. The installation was carried out by Nik Clarke, head of technical sales support at studio design consultancy Munro Associates, with Kevin Walker and Iain Beckham of Unity Audio.

The Prodigy's Liam Howlett, who is responsible for the band's songwriting, chose Dynaudio Acoustics M3A monitors because he wanted loudness, true clarity and a fantastic bass response: "I was totally blown away by the sound quality of the M3A monitors. I was really impressed by their depth and clarity, particularly at the bottom end, and I wanted a system with enough power to provide a club vibe, but accurate for mixing."

A Unity Audio, Elms Barn, Baythorne End, Halstead, Essex, CO9 4AB, UK.
T +44 (0)1440 785843.
F +44 (0)1440 785845.



We were sad to learn that pro audio retailer Axis Audio of Stockport ceased trading earlier this year. However, Axis' remaining stock has been acquired from the receivers by Boomerang Sounds. Most of the 200 items are brand new, and some "heavily discounted" prices are in effect. Contact Boomerang if you'd like a list.

T +44 (0)161 873 7770.
E boomerang@compuserve.com

Paul Tattersall of Studiohire has formed LED, the London Equipment Database. If you're selling — or looking for — any live or studio gear (mixers, samplers, synths, effects and so on), LED could be the service for you. If you're selling, your gear is added to the database free of charge, but LED will charge a 10 percent commission when a sale is made.

T +44 (0)171 435 3491.
F +44 (0)171 431 1134.

Deltron Components' new SwiftPatch 48-hole patchbay system offers modular design and user customisability. Sealed jack modules — available in packs of six — offer four 3-pole jack sockets each for stereo, balanced or unbalanced operation. The modules can be used in normalised or half-normalised mode, with the choice being made by removing and rotating the module. No unscrewing is necessary — squeezing the release clips does the job. Colour coding, visible through the front panel, tells you instantly which state a module is in.

T Rexburgh Electronics
+44 (0)1724 281770.

Software developer David Zicarelli, of cult interactive composition software *M* fame, has revived his famous program. Available now for Macintosh only, v2.5 offers improved stability, OMS and QuickTime compatibility, plus all the recording, editing, interaction and randomisation functions that have made the software so popular. A trial version of *M* is downloadable from the Cycling '74 web site, and registration is US\$74 (that's about £46).

W www.cycling74.com/products/m.html

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Line 6's POD is guaranteed to stand out in any studio, with its unusual shape and ability to "deliver a wide range of legendary amp tones". This direct recording guitar preamp/processor features 16 TubeTone amp models and 16 high-quality digital effects setups, arranged on separate knobs. Line 6's patented digital modelling technology, as used in their AX2 212 and Flextone series digital guitar amp systems, and in the Amp Farm plug-in for Pro Tools TDM systems promises a "deep, inspirational sonic palette." POD also offers MIDI-adjustable parameters and comes complete with a CD-ROM containing PC and Mac editing

software. It should be on the loose during October.

TubeTone modelling also makes an appearance in the new Flextone HD amp head, a 150W stereo/300W mono amp. It provides four inputs, Line 6's amp models, effects, built-in speaker emulation, and stereo XLR outputs, and costs £899 including VAT.

A Sound Technology, Letchworth Point, Letchworth, Hertfordshire SG6 1ND, UK.

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book corner

If you're a user of Emagic's *Logic* family of sequencing software and a gigging musician, there's a potential double strain on your book-buying budget this month.



side of the software on Mac, PC and Atari. *Logic* is a powerful program that has a reputation for being difficult to set up — this book aims to get past that reputation. There are plenty of tips about setting up the program and achieving more musical results, using the Environment and screensets, along with a reference for the most frequently used functions. The book describes *Logic* setups that will be useful to a typical user, while introducing some of *Logic*'s more esoteric capabilities and offering tips and tricks to help you with your music making. The book costs £14.95 (postage extra), and is available from the SOS Bookshop (contact details below).

The author of *Musician's Survival Guide* has spent a lot of time on the road, touring on every continent. She condenses her experience into a helpful collection of survival tips: there's important information about contracts, insurance and visas; learning to cope with breakdowns, lost passports and immigration; cultural issues, travel tips and health matters. *Musician's Survival Guide* costs

£11.95 plus postage, and is also available from the SOS Bookshop.

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PC Publishing have added two new titles: *Fast Guide to Emagic Logic* by occasional SOS contributor Stephen Bennett, and Stella Hemmings' *Musician's Survival Guide to Life on the Road*.

The *Logic* book covers the MIDI

Xpression Pump up the Volume

When Paul White reviewed Harbeth's Xpression DPM1

Proactive monitors back in SOS's February 1998 issue, he was impressed by their neutrality and affordability. However, he felt the bass end was underpowered for high-volume monitoring, especially for dance material and other bass-dominated music. Designer Alan Shaw took note of this comment, halted production and redesigned the bass/mid power amplifier, bringing it up to 120W instead of the previous 75W. This has necessitated a larger heatsink, but the effort has apparently been worthwhile; Paul has recently tried a pair of the updated models and he finds that there's noticeably more bass headroom. To achieve the extra power, the bass/mid driver uses a pair of the original amplifier modules in bridge mode, so the high-quality audio performance is unchanged. Unfortunately, Harbeth didn't have time to change the silk screen for



the first batch, so the rear panel still reads 'Twin 75 Watts', but the alternative would have been another production delay. Future batches will be correctly labelled. Harbeth would like to make it clear that none of the lower-powered models went on sale, so you don't have to worry about whether the DPM1 Proactives in your local store are up to spec — all models on sale are to the new updated standard.

A Harbeth Acoustics, Unit 1 Bridge Road, Haywards Heath, West Sussex RH16 1UA, UK.

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shape of things
to come

Digidesign's Pet Project



If you'd like to have the advantages of Digidesign's audio hardware but can't stretch to a full-blown Pro Tools 24 system, you'll almost certainly be interested in the company's new Project II. This stand-alone, 24-bit PCI card is designed for use with popular Mac and PC MIDI + Audio sequencing software — compatibility with Mark of the Unicorn, Opcode and Steinberg products has already been announced. However, you'll need a Digidesign-compatible external audio interface in order to use it: these include the company's 882/20 I/O, 888/24 I/O, and ADAT Bridge. Special bundles, consisting of a Project II and interface, will be made available. Two interfaces can be connected to Project Studio, for

up to 16 channels of audio I/O. And if you like what you're hearing, or your studio gets an injection of cash, Project II can be upgraded to Pro Tools 24 at a later date. We don't have more detailed spec on the Project II at the moment, but watch this space for more info and a review.

A Digidesign UK, Avid Technology Ltd, Westside Complex, Pinewood Studios, Iver Heath, Pinewood, Bucks SL0 0NH, UK.

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VST makes friends with Rebirth

Steinberg's Cubase VST v4 has been out for a couple of months now (and is reviewed starting on page 96 of this issue). But until now, one significant new VST feature was not compatible with anything. VST had been waiting for Rebirth v2.0, which is now out: using Steinberg's new Rewire technology, any or all of the individual voices in Rebirth (up to 18) can now be patched through VST mixer inputs, for full EQ, plug-in and mixing capability. And that includes all individual drum sounds. The Rewire technology also improves synchronisation between the two programs, on both Mac and PC platforms.

Not content with emulating the classic TR808 drum box, Steinberg (and Rebirth developers Propellerheads) have now included a virtual TR909 drum machine. Rebirth itself also benefits from a

new effect: the Compressor can work in mono or stereo, and is available for all four instruments — both TB303s, the TR808 and the TR909. And for those of you into hacking, the customisability offered by earlier versions of Rebirth has been retained — and made even easier — with several example alternative Rebirths included on the v2.0 CD-ROM (and Propellerheads' web site). Note that the Rewire technology is only available with VST v4.0 on the Mac and v3.6.0 on Windows-equipped PCs — so upgrade now if you want to take advantage of the new features.

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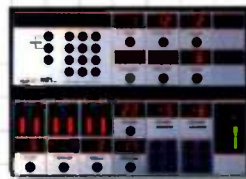
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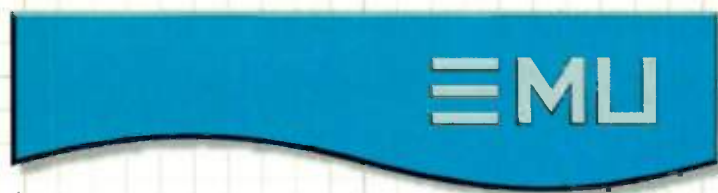
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F11 SELF POWERED MONITOR

The F11's cabinet design is another Quested first, being made from a new mineral loaded material which offers excellent acoustic properties using a considerably smaller box than would be possible using conventional materials. The design is a self powered two way bi-amplified one, with 165mm bass driver, and 28mm soft dome HF unit. Months of fine tuning have resulted in a speaker which produces a superb sound, totally belaying its size. Custom colours can be specified for bulk orders.



NEW PRODUCT
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Ask anyone in the know in the audio industry about who are the foremost acoustic designers in the business, and the chances are that the name of Roger Quested will be top of the list. He has built an unrivalled reputation for himself in a notoriously difficult process which is half science, half art.

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BUY WITH 20 x 4.75 90 min TAPES - ONLY £269.99 EXTRA!

564 MINIDISC PORTASTUDIO / EDITOR

Tascam are the inventors of the Portastudio, and were also the first on the market with a MiniDisc based four tracker. The result, the 564 is a triumph of engineering and heavily featured packed with it: up to 12 inputs at mixdown, built in MIDI Clock and Time Code synchronisation, 3 band mid sweep EQ, 2 individually addressable aux sends, full LED metering, jog/shuttle wheel, 4 XLR mic inputs with insert points, individual track outputs, SPDIF digital I/O, 37 mins record time per disc, whilst the unique bounce forward facility allowing retention of the original parts even after digitally bouncing tracks. Far too many specs to list here - a studio in a box!

This is without doubt, the ultimate Portastudio. Excellent value for money at the original price, but Turnkey's exclusive offer makes this superb machine the recording bargain of the year - order now while stocks last!

RRP £1099
£499⁹⁹

DA20 MkII DAT MACHINE

The new MkII version of the DA20 builds on what is already a quality machine. Reliable tray-loading mechanism, switchable SCMS, analog and digital recording at all 3 sample rates and coax SPDIF I/O. New features include error counting & adjustable ID encoding.

BUY WITH 10 x QUANTUM 90 min DATS - ONLY £299.99 EXTRA!

102 MkII & 202 MkIII TAPE DECKS

Fantastic deals on Tascam's superb professional quality mastering cassette decks. Both are full 15" rackmount units, the 102 MkII is a single deck, whilst the 202 MkIII is a double deck, which records on both decks. Limited stocks only at these prices, ideal for mastering and duplication.

BUY WITH 20 x 4.75 90 min TAPES - ONLY £299.99 EXTRA!

MDS-JE510 MINIDISC RECORDER

Although DCC looks to have died as a format, MiniDisc is thriving and rapidly becoming a standard in radio stations and other institutions around the world. With sound quality almost as good as DAT, and a range of editing features like Compose, Move and Auto Cut, it makes an ideal choice for mastering on a budget. If MiniDisc is for you, there's no better value on the market than the MDS JE510, with digital input, jog wheel and full function remote control as standard.

MZ-R30 PORTABLE MINIDISC RECORDER

Now available in the compact portable version of the MDS JE510 is featured above. Price includes headphones and power supply.

This must be the neatest walkman you've ever seen!

BUY WITH 20 x MAXELL 74 min MINIS - ONLY £399.99 EXTRA!

DTC-ZE700 DAT RECORDER

For the enthusiast full size DAT machine on the market, but not at the expense of features. SPDIF coaxial input and optical in and out, digital and analog recording at all three sampling rates (32 kHz, 44.1 kHz, 48 kHz), as well as all the usual D functions and a full function infra red remote control. Also features Sony's exclusive Super Bit Mapping procedure for unrivalled recording quality. Another DAT exclusive from Turnkey!

BUY WITH 10 x QUANTUM 90 min DATS - ONLY £399.99 EXTRA!

PCM-R300 DAT RECORDER

A pro full spec DAT machine at a budget price! Just look at the features list. SPDIF in and optical in, digital and analog recording in all three sample rates, 68 15" rackmount and a full function infra red remote control. Security inclusive Super Bit Mapping procedure can also be switched on, ensuring the sound of 20 bits into 16! Stocks in this incredible price are limited - get your order in now!

BUY WITH 10 x QUANTUM 90 min DATS - ONLY £399.99 EXTRA!

*We will be able to guarantee quality from a UK or European dealer at the time of order. We must be able to substantiate the quote and the goods must be available in stock. Prices include 17.5% VAT and apply to current stock only. UK mainland carriage from £9.99. Please allow 10 working days for cheques/direct debits. Entries & returns apply.

PRICES GUARANTEED



VS-840 DIGITAL WORKSTATION

Want the advantages of a hard disk based recorder, but without the price tag? Roland's new VS840 should fit the bill, recording 8 tracks (up to 64 virtual tracks) onto its built in Zip drive, you still benefit from a fully digital mixer, and a built in FX processor, with 26 different algorithms

RRP
£949.99

- **Optional SCSI Port**
- **Full Editing Facilities**
- **Built In Effects Processor**
- **Records to Low Cost Zip Carts**

and guitar level input. An all in one no-nonsense product with a no-nonsense price.

Initial stocks will be very limited - get your order in early!

VS-880P DIGITAL WORKSTATION

Roland's VS880 has become the de-facto standard for compact digital eight track recording. Each track has 8 virtual tracks allowing you to record multiple takes, and then compare them, even if you've already recorded on the other 7 tracks. The built in digital mixer handles up to 14 channels has 2 band parametric EQ, 1 external and 2 internal aux sends to the supplied FX board, and is fully MIDI controllable. The SCSI port allows connection of external SCSI devices for recording or backup, which can also be made to DAT or CDR via the digi i/o. MTC is standard to sync up your sequencer. New V2 software allows automation data to be recorded to the hard drive, and also gives numerous new effects algorithms, including mic emulation! 2 gig HD & FX board now standard!

RRP
£1499.99

- **Built In Effects**
- **64 Virtual Tracks**
- **Built in MIDI Sync**
- **Digital Mixer with Automation**

VS-1680 DIGITAL WORKSTATION

The VS-1680 from Roland takes integrated digital recording to new heights, featuring up to 16 tracks of 24 bit MT Pro recording, each track having 16 virtual tracks for multiple takes. A 2 gig drive is built in for up to 37 hours recording time, as well as one of the new VS8-F2 boards giving four simultaneous FX (a 2nd board can be fitted if required). There are 10 audio inputs including 2 balanced XLRs and 12 outputs, a SCSI port is standard and CD writing software is built in. 3 band parametric EQ is easily edited via the huge LCD display. In stock now at Turnkey!

RRP
£2199.99

- **24 Bit MT Pro Recording**
- **16 Tracks with 16 Virtual Tracks**
- **Huge LCD Display for Easy Editing**
- **Up to Eight Independent FX Processors**

VIRTUAL STUDIOS? VIRTUAL GIVEAWAYS!

INCLUDES 10 FREE ZIP CARDS!

INC FREE AKG C1000 MIC & STAND!

INC FREE AT4033 MIC & SHOCKMOUNT!

D160 HD RECORDER

Latest in the family from Fostex is the superb D160 giving you a full 16 tracks of hard disk recording for well under £1000 - less than the price of a secondhand analogue machine! D/A conversion is 20 bit delta-sigma 128k. An amazing amount of machine for your money - call us for more details. Price includes 3.6 Gb Hard Drive.

RRP £2987
£2099.99

BUY WITH 20 x CONSUMER CARDS - ONLY £2599.99 EXTRA!

INC 3.6 GB HD

Media Deal!

Fostex

over-sampling, so sound quality is superb. An amazing amount of machine for your money - call us for more details.

Price includes 3.6 Gb Hard Drive.

RRP £2987
£2099.99

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Price includes 3.6 Gb Hard Drive.

EUROPE'S LOWEST



LEXICON PRICE CRASH!

Lexicon break the price barrier with their all new budget machine, the MPX100. Previous cut price Lexicon units have had to cut corners on bandwidth and true stereo processing etc, but the MPX100 uses the state of the art Lexichip 3 in conjunction with 20 bit A/D and D/A converters to bring you world class processing at an unbelievable price!

There are a carefully selected range of 240 presets, giving you all that's best in reverbs, (5 1/2 second) delays and ambience, as well as more unusual effects like tremolo, rotary, pitch shift and detune. The parameter adjust knob controls not just one, but a selection of usefully chosen parameters for each preset editing a breeze, and their are 16 user registers for storing your favourites.

The MPX100 also features a full MIDI specification with In Out and Thru, and even the ability to sync delay times to an incoming MIDI clock signal. The SPDIF output assures compatibility in an increasingly digital age, unique for a processor at this price point, and there's even a footswitch bypass facility for discerning guitarists and other live performers. Upgrade to Lexicon quality today!



- Top Quality Lexichip 3 Reverb & FX
- Adjust Multiple Parameters Simultaneously
- Sync Delays to Incoming MIDI Clock
- Up to 5 1/2 second Delay Time with Reverb

NEW PRODUCT
£249⁹⁹



For those of us who need top quality reverb & multi FX but cannot stretch to the expense of the PCM80, Lexicon have released the MPX-1. Featuring the famous 'Lex' chip for reverb and separate DSP processor for multi FX, the MPX-1 brings you all that is good in signal processing for an incredibly low price. Up to 5 simultaneous effects are available including pristine quality stereo pitch shifting, and effects can be "morphed" from one algorithm to another, as pioneered in the Vortex. Megadeal only at Turnkey!

RRP £1199⁹⁹
£699⁹⁹

XR300 SYNCHRONISER **FACTORY DIRECT!**

Long the synchroniser of choice in professional studios, we now exclusively bring you this industry standard unit at an unheard-of price. Features include true SMPTE at all standard stripe rates, MIDI d clocks / Song Pointers or MTC for compatibility with all MIDI sequencers. Large LED time-code display. Merged MIDI input. Straight-forward operating system. Full 19" rack unit.

RRP £289⁹⁹
£169⁹⁹

STUDIO QUAD 4 4 CHANNEL STUDIO FX

The latest in DigTech's line of four channel effects processors, offering an obvious advantage over its many competitors with only two channels. Effectively it can run four simultaneous effects, as one per mono channel, or two discreet stereo channels. A large LCD, 20 bit converters and full MIDI implementation for parameter control are obvious benefits, while automatic input leveling and DigTech's second generation S-DISC II engine lie deeper beneath the surface, with numerous effects & parameters.

RRP £399⁹⁹
£399⁹⁹

COMPOSER PRO WORKHORSE COMPRESSOR **BEHRINGER**

A natural sounding and fully featured compressor at a great away price! Built-in gate removes any unwanted noise, soft-knee action makes compression much less obvious, 'auto' mode makes quick setup a doddle and side-chain access means it can also be used for de-essing etc. New Pro version now includes threshold metering, switchable sidechain operation and illuminated controls.

RRP £229⁹⁹
£169⁹⁹

1201 TRUE STEREO FX PROCESSOR **ZENON**

The 1201 is a full 19" rack unit, featuring true stereo 16 bit processing at 44.1kHz, with 64x oversampling converters. The quality of the reverb alone would make it worth the price, but there's lots more two simultaneous effects are offered, from a choice of 33 including delay, chorus, flanging, tremolo and pitch shifting, 'vocoder', litarack, 'to-4' and vocal distortion effects as well as various reverb types including reverse. If one of the 363 presets doesn't suit exactly then using the two parameter knobs will allow you to tweak the program until it does, and the addition of 2 band EQ will further tailor the sound to your mix.

RRP £99⁹⁹
£99⁹⁹

VC3 PRO CHANNEL **JOEMEER**

Legendary studio producer Joe Meek was often asked the secret of his fantastic vocal sound. It was in fact a custom made 'black box' of electronics, whose contents he would not reveal during his life. Now JOEMEER bring his designs to life, and with knobs on! In addition to the compressor and high headroom mac amp, controls like Drive, Enhance and Q make the VC3 one of the hottest ways to get your signal down. Incredible low price - order yours today!

RRP £249⁹⁹
£159⁹⁹

1204 TRUE STEREO FX PROCESSOR

The 1204 builds on the success of the original 1202 by adding MIDI control, 100 extra user presets for storing your own edits, and a two digit LED display. On top of this, there is also a rotary speaker effect, and a vocoder - a front panel mic input is even provided for quick and easy setup. Nothing else touches these units at the price - check one out today!

RRP £199⁹⁹
£149⁹⁹

104 AURAL EXCITER **APHEX**

Unbelievable low price on the Type C2 exciter from the inventors of the process, Aphex who have pioneered these designs since 1975. The two channel Model 104 excites high frequencies by generating extra harmonics, plus it features Aphex's 'Big Bottom' low frequency enhancement which compresses the low end of the mix to increase punch without raising peak levels. Limited quantities only - buy now to avoid disappointment.

RRP £299⁹⁹
£149⁹⁹

STUDIO 400 MULTI-FX PROCESSOR **DigTech**

DigTech's top of the line multi-effects machine, with more up-market features such as balanced XLR inputs and the optional digital I/O. It can run 8 simultaneous effects across four independent channels and is powered by two S-DISC II chips. Effects can be routed any way you like and include reverb, chorus, flange, Leslie, EQ, delay, pan, intelligent pitch shifting and a handy compressor / limiter to prevent digital overload.

RRP £799⁹⁹
£339⁹⁹

THC-00 RESINATOR **F.A.T.**
FACTORY DIRECT!

Freeform Analog Technologies FreeBass has become one of the most successful sound modules ever, and now the range expands further with the THC-00 Resinator and PCP330 Procoder.



Not one, not two, but three band pass filters with resonance! And we mean resonance! Feed any mono signal into this unit and get out some of the most wacky and groovy sounds you've ever heard in glorious auto panning stereo. Each of the filters has it's own cutoff point which is modulated in a selection of ways, by a combination of the built in LFO, the polarity reversible envelope follower and even an external control voltage. Ideal for processing loops, vocals or indeed any another signal, for results ranging from the sublime to the extreme!

NEW PRODUCT
£169⁹⁹

Must be heard! More fresh thinking from F.A.T.

PCP330 VOCODER

One of the most asked questions in the industry must be "Why doesn't anyone make a vocoder anymore?" - well here it is, with a fantastic feature list, great sound quality and a down to earth price. The carrier can be either an internal VCO or external line input, whilst both line and mic inputs are given for the modulator signal. Eleven filter bands each have their own level knob on the front panel giving true hands on control of your sound, and the sibilance (unvoiced) control also has an external input if required. The final output can contain any mix of modulator, carrier, vocoded signal and a special filtered version of the signal. Remember, this doesn't only create robot voices, there are thousands of creative uses, and it's also ideal for processing drum loops.

NEW PRODUCT
£299⁹⁹

Order now and own an instant classic!

DIGITAL PROBLEM SOLVERS **FRIEND-CHIP**

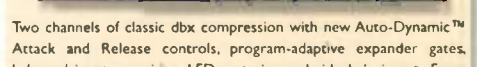


In today's increasingly digital world, many people are still using their equipment's analogue ins and outs, because of the difficulty of interconnection and synchronisation. Friend Chip's new sensibly priced digital patchbays and 'black box' problem solvers end the misery and make the digital studio a reality! The DigiMax digital patchbay (£299.99) has 8 inputs and outputs (2 each on optical), can accept both AES/EBU and SPDIF signals, and is MIDI controllable. An XLR version (£499.99) is also available for greater AES/EBU reliability. The Audio Time Base (£499.99) is a 1u 19" rack which acts as a master clock source for your studio, outputting word clock, Digidesign Super Clock and SPDIF. The master clock can be internally generated, or a reference taken from mains, SPDIF word clock, Super Clock, video or LTC (SMPTE). Lockup from timecode is in around 1 second!

Also in the range:

OP-CON	Optical Channel Expander	£49.99
PRO-CON	Optical Channel Expander with S/M-E	£129.99
D-47 COPY	CD/Digital interface with 4 inputs & 2 outputs, 2 spare lines and S/M-E	£119.99
SPK-1	Speaker interface with 4 inputs & 4 outputs, 2 spare lines and S/M-E	£149.99
SPK-2	Speaker interface with 2 inputs & 2 outputs, 2 spare lines and S/M-E	£299.99
Super Clock	Master Clock/Digital interface with word clock and S/M-E	£129.99
Audio Time Base	Master Clock/Digital interface with word clock and S/M-E	£129.99
ADAT Word Clock	ADAT 3 Pin to word clock and Super Clock interface, also S/M-E	£129.99
ADAT Word Clock	ADAT 3 Pin to word clock and Super Clock interface, also S/M-E	£129.99
ARAT	ADAT 3 Pin to word clock and Super Clock interface, also S/M-E	£199.99
ADAT SPDIF	ADAT 3 Pin to SPDIF interface	£199.99
ADAT SPDIF	ADAT 3 Pin to SPDIF interface	£99.99
ADAT SPDIF	ADAT 3 Pin to SPDIF interface	£49.99

266XL DUAL COMPRESSOR GATE **dbx**



Two channels of classic dbx compression with new Auto-Dynamic™ Attack and Release controls, program-adaptive expander gates, balanced inputs, precision LED metering and sidechain insert. Front panel selection of stereo or dual mono operation, all in a standard 1U rack design and at an unbelievable price. Now with new auto setup mode!

RRP £249⁹⁹
£149⁹⁹

Entire dbx range also on demo at Turnkey.

*We will beat any genuine quote from a UK or European dealer at the time of order. We must be able to substantiate the quote and the goods must be available and in stock. Prices include 17.5% VAT and apply to current stocks only. UK mainland carriage from £9.99. Please allow 10 working days for cheque clearance. Errors & omissions excepted!

PRICES GUARANTEED



PREMIUM QUALITY VALVE OUTBOARD EQUIPMENT

If you've previously used valve equipment, you'll be well aware of the magical quality that tube circuitry produces, and if you haven't used it - try it now! Many manufacturers use the word valve as an excuse to charge exorbitant prices for their product, but not Bellari, and our factory direct exclusive makes the range unbelievable value for money!



The RP583 Studio Tube Compressor / Limiter

linkable) of some of the finest sounding compression money can buy, with a smooth and natural compression characteristic. Ratio is continuously variable from 2:1 to infinity, and there are separate controls for attack, release, threshold and make-up gain. Dual VU metering is provided, as well as jack and balanced XLR ins and outs, and sidechain access is fully catered for. *Ideal for a variety of instruments, vocals and complete mixes.*

NEW PRODUCT
£499.99
FACTORY DIRECT



RP533 Studio Tube Multi-Processor

Whilst mixers these days are of a better quality than they used to be, to get the best possible signal to tape or disk, you can't beat a dedicated unit - and for value for money, you can't beat the Bellari RP533 Studio Tube Multi-Processor. The all tube 2u box, features a premium quality transformer balanced mic pre amp with switchable 30dB pad, phase reverse and true 48V phantom power. The compressor has all the features of the RP583, and the exciter section adds a wonderful sheen to virtually any sound, as well as beefing up the bottom end. Each stage has it's own bypass switch, sidechain access is provided, and the large VU meter can monitor input, output, or gain reduction. *No serious recordist should be without one!*

NEW PRODUCT
£499.99
FACTORY DIRECT



RP520 Studio Mic Pre Amp

A true dual tube mic pre amp at a bargain price, with tubes used at all the crucial gain stages, not just strapped across the outputs. Features include phase reverse, input and output pads, separate gain and output level controls, true 48V phantom power, jack and XLR outputs and dual VU meters. *Bypass you desk's mic amps and feel the quality!*

NEW PRODUCT
£399.99
FACTORY DIRECT



RP562 Stereo Exciter

Traditional exciters usually do a good job of brightening up the extreme top end, but can often leave you with a rather harsh signal lower down. The incredible warmth of the Bellari Sonic Exciter ends all that, providing a sparkling top end with no harshness, and a huge bottom end to boot. The stereo unit has both Jack and XLR connectors, dual VU meters, and even a separate subwoofer output with it's own cutoff and level controls. *Superb sound quality at a fraction of the price of similar devices.*

NEW PRODUCT
£299.99
FACTORY DIRECT

ADB3 Stereo Direct XLR



Stand alone 2 channel tube DI box.

NEW PRODUCT
£129.99

MP110 Direct Drive Mic Pre Amp



Stand alone single channel tube mic pre amp.

NEW PRODUCT
£169.99

FOCUS EQ PARAMETRIC EQUALISER

The Focus EQ features an ultra high quality mic preamp complete with phantom power and phase reverse, as well as line and instrument level inputs, making it an essential recording channel, or even a top quality preamp for bass or acoustic guitar. In addition to the four parametric EQ bands, there are also variable high and low pass filters, and the EQ and filters each have their own bypass switches. Typical focusrite build quality can be taken for granted, as can some of the best sounding EQ you've ever heard. Very limited quantities available for this exclusive deal - order now or regret forever!



UNDER HALF PRICE!
RRP £929.99
£399.99

NANOVERB FX PROCESSOR



The Latest offering from the inventors of budget reverb - superb quality 18 bit reverbs and delays in an unbelievably small package. There are 254 presets in all arranged in 16 convenient banks to enable you to find just the right effect for your application. True stereo processing, footswitch bypass, clip LEDs for input and output signals. The Nanoverb takes only 1/3 U of rack space and fits in neatly with its other Nano cousins!

RRP £109.99
£99.99

MICROVERB IV FX PROCESSOR

The Microverb IV brings you programmable effects at an unbelievable price. There are 100 preset programs and 100 user-editable patches for storing all your favourites using the two parameter adjust knobs. Processing is true stereo 18 bit, and there's even MIDI control of patch changes and modulation. An FX bargain to be reckoned with!

RRP £269.99
£145.99

MIDIVERB IV FX PROCESSOR

Fully programmable effects have never been so affordable! What's more the Midverb's clever routing facilities mean you can have two independent effects with their own mono in and out, as well as true stereo processing of multi effects. The MIDI implementation allows control of multiple parameters via MIDI, and the large size screen makes editing simple. Alesis quality can be taken for granted!

RRP £369.99
£195.99

4 POLE FILTER

The 4 Pole is the legendary Microwave / Wave 24 dB lowpass filter. You are free to apply this filter to any audio signal that you patch into the Filter. So if your favourite sampler or sample player lacks that special quality, you can give it a sonic boost via the 4 Pole Filter. It is the most powerful (and quite possibly the only) analog filter available today!



FACTORY DIRECT
£269.99

X POLE FILTER

What do you get if you take two of Waldorf's 4 pole filters, put them in a rack and space it up? The all new X-Pole! Maintaining all of the 4 Pole's great sound, MIDI and tactile controllability, the X-Pole allows you to treat two mono signals independently, or the two channels can be linked together for a stereo signal. 2u rack design makes for easy integration into your studio. Fasten up your sound today - your loops need never be the same again!



FACTORY DIRECT
£439.99

WEDGE MASTER REVERB



The Wedge Desktop Master Reverb from Alesis is unlike any other in that it's designed to be used right in the sweet spot, not in your rack. The Wedge's reverb algorithms represent the finest creation of Alesis' experienced DSP design team, and parameters like Early Reflection shape and stereo depth allow ultra detailed space emulation.

RRP £449.99
£265.99

BEHRINGER ULTRAFLEX PRO



• Bass Sot/Tight & Ultra-Low switch
• High mix from 'Enhancer' to 'Exciter'
• Stereo width, XLR & TRS sockets

RRP £169.99
£149.99

BEHRINGER ULTRACURVE



• 2 channel 31 band digital graphic
• 8 parametric EQs with auto Feedback Killer
• 31 band analyzer & noise gate & limiter
• 11000 digital noise converters

RRP £349.99
£299.99

BEHRINGER VIRTUALIZER



• Digital reverb / multieffects, 100 patches
• Twin 24 bit DSP engines for left / right
• Physical modelling of early reflections
• Vocoder, Leslie, pitch, chorus, delay etc

RRP £169.99
£149.99

DRAWMER MX30



• Dual gated stereo Compressor
• Switchable release time
• Gain reduction and input metering
• Easy front panel layout

RRP £265.99
£249.99

DRAWMER MX50



• Drawmer's latest easy to use De-Esser
• HF boost, stereo limit & split-band soften
• Fixed problem centre frequency...
• Turn threshold knob...
• Key preset!

RRP £289.99
£269.99

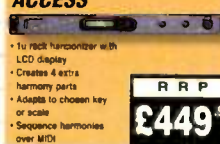
DIGITECH TALKER



• Mic or guitar input, footswitches
• Digitally simulated voice sounds & FX
• Vocoder, Auto-wah, Deck style
• Drone pitch, Allen, Gated vocoder

RRP £249.99
£229.99

DIGITECH VOCALIST ACCESS



• 1u rack harmonizer with LCD Display
• Creates 4 extra harmony parts
• Adapts to chosen key or scale
• Sequence harmonies over MIDI

RRP £449.99

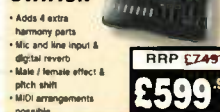
DIGITECH VOCALIST PERFORMER



• Digital harmonizer with reverb
• XLR mic input. Adds 2 harmonies
• Major / minor chords adapted to key
• Presets allow A/B switchovers

RRP £379.99
£329.99

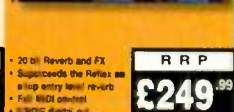
DIGITECH VOCALIST WORK-STATION



• Adds 4 extra harmony parts
• Mic and line input & digital reverb
• Male / female effect & pitch shift
• MIDI arrangements possible

RRP £749.99
£599.99

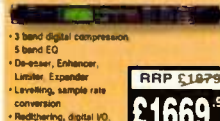
LEXICON MPX 100



• 20 bit Reverb and FX
• Superb on the Reflex as a slip entry level reverb
• Full MIDI control
• 16/192 digital out

RRP £249.99

TC ELECTRONICS FINALISER+



• 3 band digital compression
• 5 band EQ
• De-esser, Enhancer, Limiter, Expander
• Leveling, sample rate conversion
• Redefining digital VO, Auto Wizard setup

RRP £1079.99
£1669.99

TC ELECTRONICS FIREWORX



• 24 bit multi-FX & AES, SPDIF & ADAT VO
• 8 simultaneous effects, real time control
• Digital cruncher, ring modulator, vocoder, formant modeling & more

RRP £1589.99
£1299.99

TLA IVORY 5021 COMP.



Dual mono compressor with stereo link

RRP £469.99
£369.99

TLA IVORY 5051 VOICE PROCESSOR



Channel strip with reverb output stage

RRP £469.99
£369.99

TLA IVORY 5013 EQ



Dual mono 4 band parametric EQ

RRP £469.99
£369.99

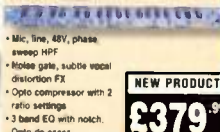
DBX 1066



True RMS stereo link, PeakStopPlus™ limiters

RRP £479.99
£399.99

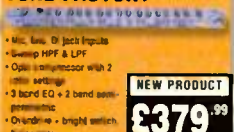
FOCUSRITE PLATINUM VOICEMASTER



• Mic, line, 48V, phase sweep HPF
• Noise gate, subtle vocal distortion FX
• Opto compressor with 2 ratio settings
• 3 band EQ + 2 band semi-parametric
• Overdrive - bright switch, noise gate

NEW PRODUCT
£379.99

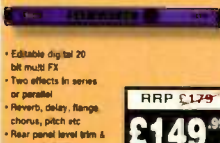
FOCUSRITE PLATINUM TONE FACTORY



• Mic, line, DI jack inputs
• Sweep HPF & LPF
• Opto compressor with 2 ratio settings
• 3 band EQ + 2 band semi-parametric
• Overdrive - bright switch, noise gate

NEW PRODUCT
£379.99

DIGITECH STUDIO 100



• Editable digital 20 bit multi FX
• Two effects in series or parallel
• Reverb, delay, flange, chorus, pitch etc
• Rear panel level trim & MIX & Topowatch

RRP £179.99
£149.99

DUAL MIC PRE



• Focusrite's best ever value dual mic preamp
• 2 channels with 48V phase reverse & 75Hz HPF
• THD only 0.001% & headroom is >26dBu
• Remote mute channel facility

OVER 50% OFF!
RRP £869.99
£399.99

*We will beat any genuine [] from a UK or European dealer at the time of order. We must be able to substantiate the quote and the goods must be available and in stock. Prices include 17.5% VAT and apply to current stocks only. UK mainland carriage from £9.99. Please allow 10 working days for [] clearance. Errors & omissions excepted.

EUROPE'S LOWEST

PENTIUM II POWER!

turnkey PRO TECH

Ringing round for the cheapest Pentium II!
 We sell audio equipment - not office software and games! The computer is the heart of any studio setup, and a Turnkey Pro Tech audio-ready PC, built with carefully selected components, means a quality solution at an affordable price. We deliver a tested, working, integrated system - if you have a problem, just call us!

A modern Pentium II can be used for a myriad of tasks ranging from desktop publishing, multimedia, games, and office work. However, few applications are as demanding as digital audio recording. Criteria which are irrelevant to most PC shoppers (such as the level of radio frequency interference within the casing), become very important, and sound cards which are otherwise considered "best buy" in the press often lack the essential "full duplex" ability which permits monitoring of audio during recording.

By supplying a pre-installed computer which we build from carefully selected components and run through 16 separate tests, we ensure that you get up and running immediately, you won't need to delve into DMA channels and PnP BIOS conflicts, and you won't get any nasty surprises like "insufficient system resources" warnings, when you try to run your software. Call us to discuss your requirements - **satisfaction guaranteed!**

THE TURNKEY PRO TECH PENTIUM: A TOWER OF STRENGTH



Genuine Email found on Cuban newsgroup from satisfied Turnkey customer Richard Blenkinsopp:

"With all the problems that people seem to be having with compatibility, I just thought I'd tell about a system that works fine. You can get the whole lot from Turnkey (Solo Saunders in London). Looking at the problems people have, I'm glad I did. If things do go wrong, there is only one wanted part and there's no excuse for them not to help you. Mine has not caused any problems so far and I've had no more regular than my Atari did (for anyone who doesn't come, that wasn't very often). I wouldn't give a quote, those figures, but it is certainly as good quality as anything else I've had. I recorded the same tune in a studio using ADAT, and at home on my PC - my PC won't in terms of sound quality (some people may have noticed), but it's just for what I need, it's fine. Turnkey really is a fully tested system, which includes VST and under £1200. I don't include all the usual fluff that normally comes with 'high end' PCs, but if you want to items, Aud Mix and I'd be happy to provide the system you'd like to add the cost of a decent word processor, but for music it's great. They do plenty of options for larger hard drives, more RAM, a factor processor, DAB is standard etc. If you want what you need, but my humble P166 works fine with up to 20 tracks of digital audio, perfectly fine with MIDI track! PS - I don't work for Turnkey!"

CAKEWALK STARTER PACK

- Intel Pentium II 233MHz (300-400MHz)
- 16Mb L2 cache RAM
- 64 Mb RAM (option up to 256Mb)
- 130 Mb optional extra 4.5", 5.25"
- 32x speed CD-ROM drive
- 17" SVGA display (optional 15", 17")
- Windows 95 CD, keyboard & mouse
- Canon PW Audio V3.5
- Turnkey 570000 sample audio card
- Top Quality DM Synthesiser
- 1x1 MIDI interface adaptor

RRP £1581
£999.99

CUBASE VST STARTER PACK

- Intel Pentium II 233MHz (300-400MHz)
- 16Mb L2 cache RAM
- 64 Mb RAM (option up to 256Mb)
- 32x speed CD-ROM drive
- 17" SVGA display (optional 15", 17")
- Windows 95 CD, keyboard & mouse
- Turnkey 570000 sample audio card
- Top Quality DM Synthesiser
- 1x1 MIDI interface adaptor

RRP £1291
£1299.99

LOGIC AUDIOWERK STATION

- Intel Pentium II 233MHz (300-400MHz)
- 16Mb L2 cache RAM
- 64 Mb RAM (option up to 256Mb)
- 32x speed CD-ROM drive
- 17" SVGA display (optional 15", 17")
- Windows 95 CD, keyboard & mouse
- Logic Audio Gold
- Avantek 2 in 1 8 channel
- SPDIF Digital I/O
- 2x1 MIDI interface

RRP £2242
£1799.99

STEINBERG PRODUCER PACK

- Intel Pentium II 333MHz
- 32 Mb RAM (64 L2 cache RAM)
- 16x CD ROM, 4x CD-R, 2x CD-W
- 10 blank CD's
- 32x speed CD-ROM drive
- 17" SVGA display
- Windows 95 CD, keyboard & mouse
- Steinberg VST PC 2.0 & AudioMix Dynamics
- WaveLab CD recording tool
- Yung 1212 15 in High PCI audio card
- Creative Soundblaster 16 bit MIDI interface

RRP £3082
£3199.99

Due to the mind boggling speed of technical advances, the above specification may be subject to change without notice. Please call us for the latest systems and prices.

NEW CUBASE VST V4.0

Pushing back the boundaries of hard disk recording power and integrated MIDI sequencing, Cubase VST leaps to version 4 proving that the Apple Mac is still ahead of the game. New features include 64 channels of CD quality audio, 8 bus sends and 8 global effects, extended tool bar with functions like time stretch direct in the arrange page, stylish graphical enhancements, MIDI panel mixer. Call us for a demo.

NEW PRODUCT
£329.99

CUBASE VST V3.5

As well as all the great sequencing and audio recording facilities you've come to expect from Cubase, PC owners can now take advantage of up to 32 audio tracks, complete with built in digital EQ, DSP, reverb and FX! Get £50 off Score version at only £449.99

RRP £329
£299.99

REBIRTH RB-338 SOFTWARE SYNTHESISER

If you're into techno, trance, ambient, hardcore... you simply must have the sound of a 303 in your arsenal of sonic weapons. As it's been out of production for well over a decade, those 303 in existence are collector's items. They'll cost you an arm and a leg which has opened a market for clone products. The ReBirth RB-338 is a CD-ROM which gives you two 303s and one 808 - a software recreation of these two classic pieces of analog hardware.

All the quirks and subtle qualities of the real thing are there, with full MIDI and sync capabilities. No cables, no boxes... all you need is a Mac or a PC.

RRP
£149.99

PRODUCER PACK

Cubase VST is great value even on its own, but the fabulous Producer Pack takes it to new heights! You get Cubase VST XT, the top of the range version which includes the full set of mixing facilities and works with professional hardware from Steinberg and Yamaha etc. Steinberg WaveLab, the superb stereo audio editing program which includes full Red Book CD burning with PQ encoding, and Waves AudioTrack, a VST plugin which includes a high quality compressor, noise gate and four band parametric EQ. Get all this for less than the price of VST XT alone!

RRP £789
£449.99

RECYCLE

Incredible software tool, takes drum loops and other files, automatically splits them up into their component parts, and downloads them to your Akai or Emu sampler complete with program maps! 100's of potential uses!

MAC OR PC
£199.99

LOGIC SEQUENCER RANGE

New Range offering DirectX / VST plug-in compatibility.

LOGIC PLATINUM - Up to 96 audio tracks, real-time DSP effects, support of multiple high-end hardware RRP £549

LOGIC GOLD - Up to 48 audio tracks, real-time DSP effects, supports Audiowerk 8 and Yung 1212 RRP £399

LOGIC SILVER - Up to 24 audio tracks, 3 effects buses RRP £199

MICRO LOGIC AV - 16 track audio with 2 effects, good entry level sequencer RRP £99

SOUND DRIVER - Librarian editor supports stacks of synths and modules, easy graphical interface RRP £179

AUDIOWERK 8

Staggering deal on the superb Audiowerk 8 card for your PC or Mac, which gives two analog inputs, 8 analog outputs, and SPDIF dig I/O as standard! 3 cards can be used in the same computer to give 24 outputs (Logic Audio Gold required). Integrates perfectly with the new Logic Range and can be used with other Windows software. Turn your computer into a sophisticated digital multi-track!

RRP £999
£369.99

AUDIOWERK 8 HOME STUDIO KIT

Everything you need for digital multitracking in one box. The superb Audiowerk 8 is also available with Logic Audio Discovery offering 24 track hard disk recording along with a special edition of Cool Edit for audio editing. A complete solution and fully upgradeable to Gold Platinum.

RRP £499
£449.99

UNITOR 8

Keeping it in the family Emagic can also offer you a full MIDI and synchronisation service with their 19" rackmount Unitor 8 interface. Full integration into Logic Gold or Platinum providing 8 MIDI in and 8 MIDI out, SMPTE and ADAT sync. Single MIDI port on the front of the unit for easy access. The first choice for Logic users and performs so well that users of other software should also take an interest.

RRP £589
£549.99

NEW AS-1 SOFTWARE SYNTHESISER

Brand new monster software analogue synthesiser for PowerMac from top programming team Bitheadz. Up to 32 simultaneous voices, 3 oscillators per voice, 7 filter types, 2 parallel and 2 serial effects processors and much much more. Full MIDI implementation and built in arpeggiator. Over 100 parameters to fiddle with to recreate all those classic analogue sounds. Fantastic set of presets covering a huge range - not a one sound toy!

Free demo disc available!

FACTORY DIRECT
£149.99

NEW GENERATOR SOFTWARE SYNTHESISER

Software Synthesis Comes of Age... Native Instruments Generator is a real-time soft synthesiser and much more - it's a sampler, a step-sequencer, multi-effects processor and an audio track processor. Use a massive library of modules to create your own sound designs. Up to 16 instruments per ensemble with up to 64 voices per instrument. Create classic analogue sounds, organs, FM, additive, trigger samples, design effects processors like compressors, vocoders, chorus, delay, all on your PC.

Free demo disc available!

Windows 95/98/NT4 only - P100 or above required

FACTORY DIRECT
£169.99

SIBELIUS TOP-END NOTATION V3.5

The notation program choice of professionals and music academies and up until now only available on the Acorn 64 stove, full orchestral scoring. Complete MIDI integration. Create anything from simple single stage pieces through to complex arrangements very fast and very easy.

This program has a reputation second to none and is now available on the PC (Mac version to follow). We have it on permanent demonstration on the shop floor.

NEW PRODUCT
£695.99

MIDI INTERFACES FOR PC COMPATIBLES

Gateway	2 in 1	16 bit serial interface for notebooks	£35.00
MPC1616	1 in 1	16 bit serial interface for notebooks	£35.00
Windows 1x1	1 in 1	16 bit serial interface for Windows 95	£35.00
Windows 2x2	2 in 2	16 bit serial interface for Windows 95	£70.00
Portstar 1x1	1 in 1	16 bit parallel interface for notebooks	£35.00
Portstar 2x4	2 in 4	16 bit parallel interface for notebooks	£115.00
Win Edge 1x1	1 in 4	16 bit serial interface for Windows 95	£115.00
Windows 4x4	4 in 4	16 bit serial interface for Windows 95	£215.00
Portstar 4x4	4 in 4	16 bit parallel interface for Parallel port	£215.00

Great bundled prices with any software

MU10 GM SOUND MODULE

YAMAHA

Turnkey's incredible buying team have done it again! Yamaha's MU10 was already great value for money, but this exclusive offer makes it unbeatable! The "XG" range of products (including the famous DB50XG) has long been highly regarded for its 676 excellent sounds, 3 built in effects processors and superb integration with computers.

The MU10 comes in a handy module format which means there's no need to open up your computer, no IRQ conflicts or DMA problems, you just connect it to the serial port of your Mac or PC (cable included). What's more it's MIDI in and out ports means it also acts as a MIDI interface, and it can be used as a stand alone module without a computer! The 34 built-in effects can be used not only with the built in sounds, but also with any external signal (eg your voice, guitar etc) via the stereo audio input. The MU10 comes with the CD-ROM version of Steinberg's famous Cubasis MIDI sequencing software, and this incredible offer includes a shareware version of Yamaha's XGedit editor free for detailed editing of the onboard sounds. A complete starter kit for anyone looking to get into making music. This exclusive offer is only available whilst stocks last - get your order in now!

Includes Cubasis

RRP £199
£115.99

PRICES GUARANTEED



A DIGITAL HURRICANE IN YOUR PC?

99% of available sound cards use the old-fashioned "DMA" system of recording audio in order to be compatible with Soundblaster games. With the Pinnacle and Fiji, Turtle Beach abandoned this system in favour of their proprietary Hurricane architecture. Basically, it gives you more tracks than DMA on the same PC hardware, and leads to less driver conflicts.



The Turtle Beach Multisound series has long been considered the "Rolls Royce" of sound cards, from the very first Multisound in 1993, through to the highly respected Tahiti card, and now - the Multisound Pinnacle.

The audio quality of the Pinnacle is beyond reproach, based around a Motorola DSP with 20bit converters on both record and playback, 64x oversampling, and Delta/Sigma converters. An on-board Kurzweil chip provides a top-quality set of synth sounds, which can be augmented with your own samples which can be mapped to a MIDI keyboard via the SampleStore™ control panel. (Up to 48 Meg of samples can be loaded, depending on the size of SIMMs fitted). Create your own drum-kits, mix in break-beats sampled from CD etc... etc...

Other upgrade options include a synth daughter-board (eg DB50XG), cable for MIDI interface, and S/PDIF daughter board allowing direct digital transfer to/from DAT, CD player, MiniDisk etc... (£99.99 for either card). The Pinnacle is bundled with Voyetra's D.O.P. (Special Edition) sequencer which gives up to 16 audio tracks with digital effects (eg reverb, delay...) depending on hardware specifications.

CUBASE VST
PACKAGE WITH FIJI
£499.99

C WALK PRO AUDIO 6
PACKAGE WITH FIJI
£549.99

LOGIC AUDIO
PACKAGE WITH FIJI
£599.99

ADD £75 FOR PINNACLE INSTEAD OF FIJI
ADD £99.99 FOR S/PDIF DIGITAL I/O



A PINNACLE WITHOUT SYNTH & SAMPLESTORE ALSO INC. FREE DIGITAL ORCHESTRATOR SE

- 20 BIT DAC / ADC
- Enhanced or Std Duplex
- Sample Store (Up to 48 Meg)
- WaveBlaster™ Connector (for DB50)
- Optional S/PDIF Daughterboard
- Kurzweil Wavetable Synth

SOUND FORGE 4 ALSO SOUND FORGE XP - £89
PC SOUND EDITOR

Sound Forge 4 (now with AVI and DirectX support) is a full-featured sound editor intended for musicians, sound designers, and multimedia developers using the Windows platform (Windows 95/98/NT). Allows sound file editing, effects, loops and regions, playlists. External samplers and sync to MIDI and SMPTE Time Code.

Multiple window environment allows more than 50 sound files to be open at one time. Supports WAV, AIFF, Creative VOC, VOX, and Sound Designer SDI files. Drag-and-drop glitch-free editing. Sound Forge is perfect for authoring audio CDs on the PC.

RRP £349.99
£299.99

PLUG-INS Full range of Sound Forge plug-ins in stock

XFX1 - reverb, time and pitch shifting, chorus and delays only £99
XFX2 - noise gate, graphic and multiband dynamics, parabolic/metric EQ also £99
Spectrum Analyser - aiff said £119
Acoustics Modeller - simulates acoustical responses £199
Noise Reduction - £275
Batch Converter - £159
CD Architect - complete red book audio CD burning solution - £299

ACID

A break-through loop based music production tool. Make music in minutes by dropping in samples and loops, and ACID will pitch shift and time stretch automatically to match them in time. Unlimited tracks and DirectX compatible. Comes with a huge library of loops to get you started.

NEW PRODUCT
£249.99

NEW AUDIO PRODUCTION STUDIO EMU

The wisdom of the professional's choice of samplers finally bring their expertise to the PC in the form of a PCI sampler card. Designed purely for audio production this card gives you 64 voices of sampling, multitrack hard disk recording and real-time DSP effects. Comes with a drive bay interface giving 4 balanced analogue ins 2 out and 4 digital ins. Boaced with audio editing and sequencing software this is a complete music recording solution.

NEW PRODUCT
£449.99

DIRECTX / VST PLUG-INS

Up the power of your audio recording system with these real-time plug-ins and Native Audio Processing VST/DirectX - works with any DirectX compatible audio software

Loudness Maximizer - boosts the loudness of recordings	£299
Magneto - adds analogue warmth to digital recordings	£299
Clicker - Restore your vinyl recordings	£299
DeNoise - Easy noise reduction	£299
Spectralizer - spectral enhancer	£299
Q Metric - Analogue sounding parametric EQ	£499
Free Filter - linear phase 30 band EQ	£299
Waldorf D Pole - A virtual D Pole filter	£149
WaveMaster Power pack reverb/complank/maximizer/parabolic	£399
EasyWaves Bundle - E-verb/compressor and EQ	£125
SPL De-Esser - Vocal de-essing	£149
Hyperprism - contains 25 effects including reverb, filters etc	£279
TC Native Reverb - quality reverb windows	£329
Fusion Vocoder - software vocoder	£125
Fusion Vinyl - add the sound of vinyl to your digital recordings	£79
Fusion Filter - resonant filtering	£125

VST Mac only
Free-D - 3D audio simulator £149
RED VALVE-IT - Valve tube modelling for guitar amp simulation £299
VoxCiter - vocal processor and enhancer £299
Roomulator - Prosonix quality reverb £299
Ambisonic - 3D stereo simulator £149
Auto-Tune - Corrects intonation problems of vocals in real-time £499

WOT NO SAMPLERS?!

No, we haven't stopped selling samplers or offering you the same great deals as always. See our six page Turnkey Loopstation brochure included in this magazine for all that's good in samplers, library and peripherals.

No brochure? Need another for a friend? Call us now and we'll have one on your doorstep tomorrow!

CAKEWALK PRO 6
• 8 track audio recording
• DirectX for plug-in FX
• Professional MIDI sequencing
• Upgrade path to Pro Audio 7
RRP £189.99
£79.99

CAKEWALK PRO 7 AUDIO
• 8 full size pads & over 700 sounds
• Ideal for mixing drum & percussion parts
• 14 note poly, built-in FX
• Accepts external pads & triggers
RRP £289.99
£259.99

TERRATEC EWLS-64L
NEW
• 18 bit full duplex soundcard
• 64 note polyphony
• On-board sampler with 8MB upgradable to 64MB
• DSP for realtime FX
RRP
£329.99

TERRATEC EWLS 64S
NEW
• 18 bit full duplex soundcard
• 2MB on board sounds
• 64 note polyphony
• Free stor for sample RAM up to 64MB
RRP
£149.99

KORG 1212 I/O
• ADAT optical interface card for the PC or MAC
• Stereo Analogue I/O
• S/PDIF I/O
• Total of 12 ins and outs
• Fantastic performance with Cubase and Logic (and others)
RRP
£599.99

MIDIMAN DMAN 2044
• 18 bit PCI audio card
• 4 ins and outs
• On-board DSP for realtime FX
• Can be used together for 8 in 8 out for under £500!
RRP £295.99
£249.99

CODA FINALE 98
• Top notation and score publication program
• Brand new version
• Event trigger to use
• Stunning professional printout
RRP £699.99
£499.99

EVENT DARLA
NEW
• Multiple outputs on a budget
• 20 bit PCI audio card for Mac or PC
• Easy to install and runs with all major audio programs
RRP
£299.99

EVENT GINA
NEW
• 20 bit PCI audio card
• 2 inputs 8 outputs
• Rugged breakout box with 124" jacks connections
• S/PDIF input
RRP
£499.99

EVENT LAYLA
NEW
• Streaming multitrack multibus
• 8 inputs and 10 outputs
• Remotely controlled external controllers
• MIDI input and thru
RRP
£899.99

KEYFAX PHATBOY
NEW
• Fantastic realtime MIDI controller
• 13 assignable knobs
• Special settings for Refresh, GS and XG
• Works on any device with continuous controllers
RRP
£149.99

MOTU 2408
NEW
• 24 tracks digital recording
• 8 layout on ADAT, TDF and analogue
• Connects via PCI card for Mac or PC
• 3 can be used together
• Fantastic audio fidelity
RRP
£995.99

TRAXDATA CDRW4260
• Re-writable SCSI CDR
• Fully tested for reliable Red Book audio mastering
• Comes with software and back-up software
• Traxdata SCSI card only £49.99!
RRP £449.99
£379.99

LEXICON STUDIO
• 24 bit studio quality software for Cubase VST
• Enhanced XLR stereo interface plus ADAT 8ch
• Plug-in based FX card giving quality Lexicon reverb from the PCM50+ LTC, ADAT and Sony 8 pin sync
RRP
£2695.99

MIDIMAN AUDIO BUDDY
NEW
• Neat I/O box for the PC
• Ideal for file or guitar
• Matches impedance of soundcards
• 2 channels with phantom power
RRP
£89.99

MOTU MIDI EXPRESS XT
• Full featured port MIDI interface
• 128 MIDI channels
• SMPTE to MIDI sync
• Mac or PC
RRP £389.99
£369.99

PG MUSIC BAND-IN-A-BOX
• World leading intelligent management software
• Full backing band from entering chord letters
• Full GS/XG compatibility
• Can export MIDI files
RRP
£89.99

YAMAHA DSP FACTORY
NEW
• Long awaited Yamaha audio recording PCI card
• Mixing capabilities of the 02R on a single card!
• 2 on board reverb units based on the REV500
• Drive bay option for multiple input
RRP
£699.99

EVOLUTION DANCE WORKSTATION
• 2 Octave MIDI controller keyboard for PC
• Collapsable sample based dance music software
• Guaranteed directly to your soundcard
• 100% of samples included
NEW
£99.99

OPCODE STUDIO 64X
• Serial port MIDI interface
• 19" rackmount unit
• 4 in 8 out
• SMPTE sync
RRP £269.99
£219.99

EUROPE'S LOWEST



SOFT MACHINE!

PRICE NOW INCLUDES AUDIO EXPANSION!

RAVE-O-LUTION 309 DANCE WORKSTATION



Imagine the raw powerful sound quality of Roland's TR909 and TB303, give them 50 times as many sounds, add resonant filters to the drums, and you've still only got half the instrument that is the Quasimidi 309! Knobs for all functions all send out MIDI controllers, built in real-time and step-time sequencer, 2 on board effects processors & EQ, optional rack ears, typical German build quality - far too many features to mention here! The ultimate dance production workstation, must be heard to be believed. "superb bass synth... excellent drum sounds... one of the most immediately useable products on the market" - Sound On Sound. Call for a free demo CD. Money back within 7 days if not satisfied (ask for conditions).

ALSO AVAILABLE WITH ALL 3 EXPANSIONS ONLY £569! FACTORY DIRECT £499.99

SYNTH & DRUM EXPANSIONS ALSO AVAILABLE only £69.99

309 AUDIO-EXPANSION



Input / output expansion board now available only £99.99. 2 extra outputs, 2 inputs allowing you to route any 2 external signals through the AES synthesis. Also comes with new operating system with many new features.

FACTORY DIRECT £99.99

POLYMORPH SYNTHESIZER

Coming soon, the Polymorph is a four part analogue style synthesiser, with 8 note polyphony, 4 outputs and superb 309 style realtime editing facilities and sequencer & FX. Call for more details.



FACTORY DIRECT £699.99

ATC-1 ANALOGUE MONOSYNTH

Studio Electronics started out life as a company that serviced and modified old Moogs, moved on to producing remanufactured Mini Moogs in 19" rack form, and then developed the SE1 - a modern Mini Moog whose components were painstakingly researched to provide an instrument that was according to the reviewers indistinguishable from the real thing.



Most recently has come the ATC-1 Tone Chameleon - hand crafted in the USA in the same way as their previous products, but with reduced cost due to less knobs but a vastly increased sound palette thanks to the ingenious use of filter cartridges to emulate the best sounding instruments of yesteryear. Editing is a breeze thanks to an individual button for each function, and a large central parameter dial.



Circuitry is analog throughout, right down to the oscillators, and the sound is needless to say, superb. There are 2 LFO's (one syncs to MIDI), three envelopes, filter, and can also filter your choice of a TB303, ARP 2600 or Oberheim Xpander filter (only £69 each), and for the filter fetishists amongst you, the filter Selector (only £199) takes all 4 filters simultaneously, and the filter type is automatically stored with each patch, avoiding the need for switching. The rear panel sports an audio input and CV & gate in and outs as well as the usual MIDI connections. Incredible reduction on another Turnkey exclusive - quality doesn't have to break the bank!

RRP £999.99
FACTORY DIRECT £469.99

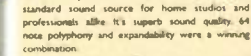
JV1080 SYNTH MODULE



In the same way as the £1000 became the industry standard sampler, Roland's JV1080 has become the industry standard synth module. It's not hard to see the reason why - straightforward operation combined with top flight sound quality and a huge range of useable sounds. But expandability of the machine is where it really shines into it's own. There are over 10 different expansion boards which can be fitted (up to 4 at once), each one with as much ROM as the original machine, covering sounds from Vintage to Orchestral and Dance to World. At Turnkey we have the full range in stock, as well as an unbeatable price on the machine itself.

RRP £1399.99
FACTORY DIRECT £949.99

JV2080 SYNTH MODULE



The Roland JV2080 has been become the industry standard sound source for home studios and professionals alike. It's superb sound quality, 64 note polyphony and expandability were a winning combination. Now the new JV2080 builds on that success by offering a giant editing screen, three independent effects processors as well as reverb, LFO and chorus, and room for 8 of Roland's renowned expansion boards - the potential is virtually limitless! Judging by the success of the JV1080, these will be in strong demand - call us now!

RRP £1399.99
FACTORY DIRECT £949.99



Generator 1.5 is a new milestone in synthesiser development. An amazing piece of software that transforms your PC into a professional fully featured synthesiser, without the need for additional DSP hardware.

Draw on a pool of over 150 elementary modules and develop new synthesis structures with power and ease. using the included DirectX Plug-In, digital audio data can be exchanged with an audio sequencer in real time, without any loss in quality.



"A very well designed and comprehensive modular synth system at a bargain price!" - Sound On Sound September 1998

- Complete Virtual Analog Software Synth
- Total Real Time Control and Processing
- Up to 16 Instruments per Voice with up to 64 Voices per Instrument
- Full MIDI Control of every Parameter
- Over 150 Elementary Modules, including Portamento, LFOs, Shapers, Mixers

NEW
FACTORY DIRECT £169.99

GENERATOR

System Requirements:
Windows 95/98 PC
or Windows NT4.0,
Pentium 100MHz or faster,
Audio Interface

MEGADEAL ALERT
NEW LOW PRICE!

FREEBASS TB303 CLONE

If you need the unique sound of an original Bass Line™, but can't afford the inflated prices that go with it, then Freeform Analog Technologies' Freebass is the product for you!



It's the only authentic sounding TB303™ clone on the market, and it's got MIDI! 1U rack with 1 knob per function, all the sound controls of the 303 are duplicated. Cutoff, Resonance, Envelope Mod, Accent, Tune and Decay. Waveform is continuously variable from square wave to sawtooth, and an auto tune button is included to retune the oscillator - no more continual drifting!

On top of this, there's an audio input to the filter stage, allowing you to process any external signal with the FB383's powerful synthesis. The ultimate analog bass machine - this incredible price means these will fly out of the door! Another Turnkey exclusive.

RRP £109.99
FACTORY DIRECT £129.99

VIRUS VIRTUAL ANALOGUE SYNTH

Control specialists Access have used all their considerable expertise in the design of their new 'virtual analogue' synth, the Virus.

All major parameters have their own dedicated knob or switch, and an 'expert' mode allows super detailed editing via the LCD display and parameter controls. Of course, all edits send out controllers in real-time. Synthesis facilities are unparalleled - 64 oscillator waveforms (2 per voice), 3 LFO's, 2 multi-mode filters per voice, oscillator sync, filter overdrive, built in FX - you name it, it's got it!

12 note polyphony, 16 part multitimbrality, 6 outputs and 2 filter inputs mean you're not just limited to one sound at a time. We're so confident that you'll love this synth that we're offering a seven day money back guarantee (ask for conditions).



The most flexible and best sounding virtual analog on the market.
NEW PRODUCT
£899.99

DM5 DRUM MODULE

The DM5 offers superb performance features and an excellent selection of drum, percussion & FX samples putting over 540 all-new studio drum sounds into a 1u rack space, many recorded in true stereo and with ambience effects. It's Expanded Dynamic Articulation feature allows sounds to change volume, tone, and pitch according to MIDI velocity. The Random Sample feature realistically varies the sound of the drum as you play. The DM5 includes an ultra-fast trigger-to-MIDI converter with 12 trigger inputs, 4 audio outputs and a backlit LCD display. The drum sound for you is waiting right here!

RRP £429.99
FACTORY DIRECT £269.99

SYNTH MODULES



Emu have taken their wealth of experience in making modules such as the Proteus, Vintage Keys and Polymorph, combined it with the filters from the incredible Emulator 4, and with their usual innovation, come up with the Orbit and Planet Phatt. The Orbit is stacked full of classic drum sounds, pulsating basses, ambient pads, as well as a huge variety of hits and effects, whilst the Planet Phatt brings a new definition to swing. The inclusion of the E4's 16 different types of 6 pole filters mean that these modules have more powerful filtering than any other synth. Finally the BEATS MODE includes a wide selection of loops and grooves, which can have their pitch changed without tempo change and vice-versa, and even their sounds too! V2 software now gives improved bass mode and many other enhancements. Orbit upgrade available for only £69.99.

RRP £869.99
FACTORY DIRECT £549.99

TR-RACK SYNTHESIZER RACK

Love the sounds of the Korg Trinity range but don't have room for another keyboard? Here's the answer you've been waiting for! Huge screen for easy editing, four outputs, 32 polyphony, and the huge hit sounds that Korg are famous for - from long evolving pads to exciting effects. Incredible new low price only at Turnkey - order now to avoid disappointment!

RRP £999.99
FACTORY DIRECT £699.99

*We will beat any genuine quote from a UK or European dealer on the price of any of our products. We must be able to substantiate the quote and the goods must be available and in stock. Prices include 17.5% VAT and apply to current stocks only. UK mainland carriage from £9.99. Please allow 10 working days for cheque clearance. Errors & omissions excepted.

PRICES GUARANTEED*



DIY CD PLANT

TraxTower 3000 & 6000



FROM £4099.99

CD mastering has certainly come of age, and with blank disc prices at an all time low, making your own small production runs has never been more desirable. With this in mind, Traxdata have produced a superb range of duplication machines, which will not only cope with audio CDs, but also video and CD ROM formats making them ideal for multimedia producers and recording studios alike.

The TraxTower 3000 and 6000 feature a built in 2 gig hard drive for uninterrupted on-line storage and data transmission, plus either three or six quad speed CD writers allowing you to produce up to twenty full length CDs per hour! Custom software enables you to verify and compare your master image and the CD copies against the master, and all operations are carried out via the 4 x 20 character LCD display and keypad.

For heavy duty users and the ultimate in unattended CD duplication, TraxData bring you the Trax Copier! Its robotic loading system means you can produce up to 150 CDs in a single run without once returning to the machine. What's more, because the TraxCopier automatically recognises master discs which are loaded in the same feeder, you can even produce multiple copies of different masters all in the same run; eg one master followed by ten blanks, another master followed by twenty blanks etc. The professional's machine!

TraxCopier



FACTORY DIRECT £6999.99

- Duplicate Audio, Video & ROM Formats with Ease
- Produce up to 20 Full Length CDs per Hour
- Chain Towers Together for Even Quicker Performance
- Completely Unattended Operation (TraxCopier)

Desktop CD Writers



If your ambitions or budget are not quite so high, we also supply TraxData's internal and external CD writing kit, both in standard format, and now also with full rewritable CD compatibility!

FROM £269.99

PressIt Labelling Kit



Recordable CDs are great, but how do you label them? With the PressIt CD labelling kit! The kit includes the custom label applicator, full colour software templates for most major graphics and word processing programs, and a selection of labels not only for the CD itself, but also for the jewel case inlay and spine. An essential CD writing accessory!

FACTORY DIRECT £34.99

CARNIVAL SOUND MODULE

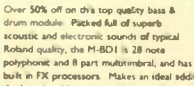


OVER 65% OFF!

Spice up your (musical) life with the fantastic Carnival module from Emu, purveyors of fine quality sound modules! This unbelievable deal brings you hundreds of the finest Latin and dance sounds and grooves for an unrepeatable price. There are 640 fully editable presets covering a huge range of drum and percussion sounds, both acoustic and electronic, as well as organs, guitars, accordions, pianos, basses, vocal effects and synth waveforms. EMU's unique 'Beats' mode gives 100 different grooves programmed by top session players which can be synced to MIDI, transposed and 'time stretched', before being played on any combination of sounds you like, and joined together in one of up to 28 songs. The Carnival is based on exactly the same engine as the Orbit and Planet Phatt, which means as well as 32 note polyphony, sig +4dB individual outputs and tank-like construction, you also get 17 filter types of up to 6 poles from the legendary E4 sampler, and some of the most comprehensive synthesis facilities available at any price - ideal for dance music of all types. Stocks are very limited for this once in a lifetime offer - order now to avoid disappointment!

RRP £865 £299.99

M-BD1 SOUND MODULE



Over 50% off on this top quality bass & drum module. Packed full of superb acoustic and electronic sounds of typical Roland quality, the M-BD1 is 28 note polyphonic and 8 part multitrack, and has 2 built in FX processors. Makes an ideal addition to any MIDI setup, providing the bread and butter sounds for a wide variety of tracks.

ALMOST 60% OFF!

RRP £465 £199.99

QY70 WALKSTATION



New from Yamaha, the inventors of the 'WalkStation' comes the QY70, a sound module: sequencer and auto accompaniment all in one! Packed full of sounds, styles editing features and fun, the QY70 is an ideal mobile composition tool, as well as a high quality sound source in its own right.

RRP £445 £LOW

P50-m PIANO MODULE



At this price, can your setup afford to be without a piano module - no more need to load up lengthy samples or chew up valuable polyphony! The P50-m takes the dazzling sounds from Yamaha's flagship stage piano the £5,000 P50, including grand and upright pianos, CP80, Rhodes, Wurliker, Clavinet and DX electric sounds. Many instruments are sampled in stereo for stunning realism, stretch tuned versions are available, and there are 22 different effect types (2 simultaneously) to choose from, as well as a 3 band equalizer. 32 note polyphony means you should never run out of notes, but for those with a heavy right foot two modules can be connected in overflow mode for a whopping 64 notes, and there are seven velocity response curves to choose from to suit any playing style. A bargain at the full price, this amazing deal means that stocks will not last long - call for yours now!

ALMOST 60% OFF!

RRP £305 £169.99

MDF2 MIDI DATA FILER



Direct to disc MIDI data filer stores synex files from virtually any MIDI device for sound storage etc, as well as recording and playing back Standard MIDI Files - perfect for live use as well as the studio!

RRP £375 £199.99

MC-303 GROOVEBOX DANCE WORKSTATION



The enduring popularity of the TB303, MC202 and TR909 has just refused to go away but increasing rarity has meant that secondhand prices have been driven up to ridiculous levels. Roland, the creators of these machines, now bring you the MC303 Groovebox which combines all their classic drum machine sounds, a step time / real time sequencer, 303 'acid' bass sounds complete with front panel filter controls and a whole host of other ultimate sounds (it's 16 part multitrack!). This box is an all in one dance music solution, and believe us, it sounds the business! Call for a special price and the best advice!

RRP £565 £LOW

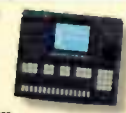
MC-505 GROOVEBOX DANCE WORKSTATION



Take an MC303 Groovebox, add an extra effects processor, a D Beam infrared controller, a RAM card slot, enhance the arpeggiator and what have you got? An MC505! Well not quite in fact - the MC505 also has up to 4 tones per voice, more user patches and patterns (256 and 200), and up to 64 note polyphony. 8 front panel sliders make mixing a doddle. On demo now, come in and check one out or call us for a brochure!

RRP £945 £LOW

YAMAHA QY700



• King of hardware sequencers
• Huge graphic screen, piano roll edit
• XG 64 note poly sounds
• 32 part multitrack
• Auto backing, chord tracks, FX

RRP £985 £699.99

ROLAND SPD20



• 8 full size pads & over 700 sounds
• Ideal for entering drum & percussion parts
• 14 note poly, built in FX
• Accepts external pads & triggers

RRP £545 £LOW

BOSS DR660



• 255 drum sounds
• 16 velocity sensitive pads
• 'Human Feel' control
• Editable reverb and chorus

RRP £395 £LOW

ZOOM RHYTHMTRAK 234



• 124 Drum Kits / 32 note poly
• 99 User patterns, 198 grooves
• 50 bass patches + Jam function
• Shape sounds in realtime with slider

NEW PRODUCT £199.99

WALDORF PULSE



• Acclaimed analog monosynth
• 3 fat sounding oscillators
• Offers a high degree of programming flexibility
• All parameters send out MIDI controller data

RRP £329.99

WALDORF MICROWAVE II



• Genuine variable synthesizer
• 10 note polyphony
• 8 part multi-timbrality
• 4 individual outputs

RRP £899.99

ROLAND V DRUM MODULE



• Superior drum module / brain
• Modelling technology - change sun tension, add muffling, choose brass, wood or steel, change heaters
• 58 note poly, 650 sounds, built in sequencer

RRP £1295 £LOW

NORD RACK II



• Clavia's great sounds with an enhanced control surface
• Great for polyphonic analog style lead lines
• Digital memories, MIDI, assignable modulators

RRP £1295.99

NOVATION SUPERNOVA



• 3x rack, deep blue case-work, loads knobs
• Proprietary DSP smooths digital edges for better oscillators, filters, LFOs, envelopes
• 32 note poly. Great presets & effects!

RRP £1299 £1199.99

NOVATION BASSTATION



• 8 oscillator monosynth
• Ring modulation and oscillator sync
• LFO to MIDI clock sync
• Built in arpeggiator

RRP £305 £349.99

NOVATION DRUMSTATION



• Classic TR808 and TR909 sounds
• All original editing parameters
• Fully MIDI compatible
• 8 individual outputs

RRP £305 £349.99

KURZWEIL KMP-I MICROPIANO



• Realistic stereo samples
• 32 note polyphony
• 32 piano, keyboard & string sounds
• Built in effects

RRP £425 £319.99

ALESIS NANOPIANO



• Stereo Booseforder grand samples
• 64 note poly, 256 sounds
• Digital reverb / effects
• Handy pocket sized module!

RRP £299.99

ALESIS NANOBOSS



• 256 best sounds of the 1970s
• 4 to 4 voice layers
• 64 note poly & digital effects
• 12 LFOs and simultaneous LP filter per voice

RRP £245 £189.99

ALESIS NANOSYNTH



• 64 note poly, 16 part multitrack
• Editable digital effects
• 640 sounds in 5 MIDI banks
• G&H and Urban banks

RRP £329.99

HAMMOND XMI/XMIC



• Hammond organ is a module with a removable drawer controller!
• Based on the XE3
• Leslie simulator built in
• Nothing as realistic on the market!

RRP £1065 £999.99

ROLAND JV / XP SERIES SOUND CARDS



• Specialised 16mb banks of sounds for your Roland synth - JY1080 XP50, XP60, XP60 tone & boards, JV2000 tubes B
• Come with fitting list and instructions
• Full range available from stock
• Choose from Pop, Orchestral, Piano, World, Vintage, Sfx & Tone Keys, Session, Bass & Drums, Techno, Surf & Sound Set, Asian, Voice

RRP £255.99

*We will beat any genuine offer from a UK or European dealer at the time of order. We must be able to substantiate the quote and the goods must be available and in stock. Prices include 17.5% VAT and 8% to deliver (UK only). UK Sales & Delivery from £9.99. Please allow 10% for delivery to other territories. Errors and omissions excepted.

EUROPE'S LOWEST

SIRIUS DANCE WORKSTATION

NEW

The dance sensation of the year! Following hot on the heels of the award winning Rave-O-Lution 309, Quasimidi bring you the incredible new Sirius keyboard - a complete dance production workstation all in one.

The Sirius features the same acclaimed Analogue Emulation Synthesis as used in the 309, but gives you 3 synth parts with 12 note polyphony as well as the usual drum and percussion sections. But the innovation doesn't stop there, the built in Vocoder can take its modulator and carrier signals from any combination of internal or external sources (or the accompanying gooseneck mic), and for any budding DJ producers, the Sirius can be synced directly to a record deck or other audio source by automatic tempo analysis. Built in FX, a 4 octave velocity sensitive keyboard and a mod wheel that's assignable to multiple parameters simultaneously, round off a tour de force keyboard that is the hottest dance product of 98!

Call now for full details - we're so confident you'll love it, we're offering a 7 day money back guarantee!

(Please call for full conditions)

CALL FOR A DEMO CD

FACTORY DIRECT
£799.99

QUASIMIDI

Wave Synthesiser

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



PRICES FROM
£6299.99

AN1x VIRTUAL ANALOGUE SYNTH

Incredible end of line exclusive deal on the Yamaha AN1x - widely regarded as the best sounding virtual analogue keyboard on the market! Yamaha's custom DSP chips provide immense processing power and this combined with their R&D departments finest algorithms give the AN1x its huge sound, many presets were created by top UK session programmers, so you can be sure they're spot on, and the array of knobs makes creating your own patches a breeze. With a 5 octave altouch sensitive keyboard, 10 note polyphony, dual timbrality, a ribbon controller, and built in effects, the AN1x was great value even at its original price - this deal makes it unbeatable. Demand will far outstrip supply - get your order in early!



RRP £899.99
£499.99

CLP-311 CLAVINOVA DIGITAL PIANO

The ever popular CLP 311 Clavinova at a fantastic price! This entry level digital piano has 5 AWM voices and an 88 note fully weighted piano touch keyboard and two pedals. Features also include 28 note polyphony, 20w x 2 amplification system, two headphone jacks, one track recording and the ability to mix any two sounds together, plus MIDI compatibility, all in a wooden cabinet with dark rosewood grain finish.



ALMOST 40% OFF!

RRP £999.99
£599.99

K5000 RANGE ADDITIVE SYNTHESISERS

UP TO 60% OFF!



It's not often you get something coming along with a completely fresh approach. Kawai have dared to be different though with the K5000s, and reintroduced additive synthesis. This has been tried in the past, but the limited DSP power has severely curtailed the possible results. The only method of synthesis that can theoretically produce any possible sound, additive has a palette which ranges from superb acoustic simulation, to lambent quiet unlike those offered by any other synth. The inclusion of a traditional synthesis section complete with an incredibly powerful filter means it's also a cinch to create fantastic analogue style sounds, and a generous complement of knobs which all send MIDI controllers add to the ease of use. Incredible new low price only at Turnkey!

RRP £999.99
£529.99
RRP £1199.99
£549.99
RRP £1499.99
£599.99

TRINITY KEYBOARD WORKSTATION

When it comes to workstation keyboards, the Korg name is legendary. Their current flagship product, the Trinity not only features the customary range of exemplary sounds, but also touchscreen technology to make it one of the most intuitive instruments on the market, and a range of options to turn it into a fully fledged recording studio: sample playback (Akai compatible), Prophecy expansion board, and even hard disk recording!



TRINITY PLUS £1499.99
TRINITY PRO £1999.99
TRINITY PROX £2399.99

RRP £2345.99
£1199.99

QS8 EXPANDABLE SYNTH



The QS8 64 Voice Expandable Synthesiser starts with an 88 note piano weighted keyboard, and a powerful 64 Voice synth engine, powered by 8MB of sound ROM which is expandable to 16MB, either through the

large range of Alesis QuadraCards, or blank Flash RAM cards for use with the included Sound Bridge sample transfer software. There are 640 programs and 500 "mixes", including a complete GM bank. Four simultaneous multi effects processors based on Quadraverb 2! Built-in serial port for direct interface to a computer, includes free CD-ROM of sequencers, editors, song files, and samples. Unbelievable clearance deal exclusive to Turnkey - buy now or live to regret it!

QS6 ALSO AVAILABLE only £499 QS7 ALSO AVAILABLE only £699

RRP £1299.99
£899.99

JP-8000 ANALOGUE MODELLING SYNTH



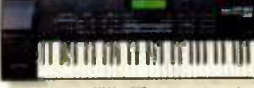
Until recently, modelling technology has been used to recreate acoustic timbres, but Roland was the first to specifically model true analogue synthesis with their new Analogue Modelling technology, and believe us, the results are spectacular!

Analog Modelling not only produces superb emulations of the great synths of the 60's and 70's, but also totally unique timbres never before heard. Realtime control is excellent, and all knobs, sliders, buttons and the ribbon controller send out Continuous Controller messages. For instant creativity, a powerful arpeggiator and real time phaser synthesiser are included, which can be easily synchronised to an external MIDI clock.

Still one of the hottest synths around - order now!

RRP £1499.99
£LOW

XP-60 WORKSTATION KEYBOARD

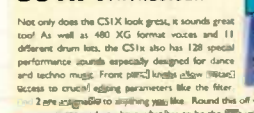


Roland's XP60 builds on the success of the XP50 by adding a host of new features such as a 60,000 note sequencer with arpeggiator, King size LCD display

as featured in the XP80, MMC synchronization, and not forgetting of course the huge range of top quality sounds from the JV1080, and all the extras available via the SRJV expansion board series. Initial demand will far outstrip supply - get your order in early!

RRP £1299.99
£LOW

CS1x SYNTHESISER



Not only does the CS1x look great, it sounds great too! As well as 480 XG format voices and 11 different drum kits, the CS1x also has 128 special performance sounds especially designed for dance and techno music. From percussive effects (blast) access to crucial editing parameters like the filter

and 2 are assignable to anything you like. Round this off with top quality effects and an arpeggiator, and you have what has to be the BEST selling keyboard of the year.

RRP £599.99
£499.99

BUY WITH VL70M VIRTUAL LEAD MODULE for only £799.99

WK-1200 MIDI KEYBOARD

Great value 73-note touch-sensitive MIDI keyboard with 2-Way Bass Reflex Speakers for improved sound quality. The 6-track sequencer, synth & mixer functions, pitch-bend wheel, backlit LCD & many more superb features make the WK1200 an outstanding instrument, ideal for any level of performance.



RRP £299.99
£249.99

CALL @PIANO.KEYBOARD ON 0800 783 0456 FOR DETAILS

MK149 MIDI CONTROLLER KEYBOARD

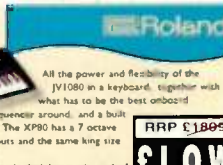
Compact touch sensitive master keyboard offering full control over pitch bend and a mod wheel assignable to reverb, pan or any controller, sustain pedal input, transpose over 2 octave range, send patch & bank change messages.



RRP £139.99
£99.99

XP-80 WORKSTATION KEYBOARD

All the power and flexibility of the JV1080 in a keyboard, together with what has to be the best onboard synthesiser around, and a built in disk drive. The XP80 has a 7 octave keyboard, also a 4 outputs and the same king size display as featured in the JV2080.



RRP £1899.99
£LOW

We have limited stocks only at staggering prices - don't delay - order today!

Z-1 MULTI OSCILLATOR SYNTHESIZER

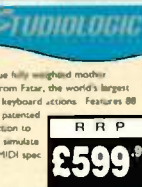
Korg's Z1 is probably the most comprehensive modelling synthesizer built to date, incorporating 13 different algorithms for stunning simulations of everything from classic analogue synths to incredibly lifelike string and brass sounds. Multisampled performance and 12 note polyphony (expandable to 16) mean this is a really usable instrument, and there's even an optional ADAT format output board for those who try to maintain a fully digital system. Other features like the unique polyphonic arpeggiator and 15 effect types make the Z1 superb value. Check one out today!



RRP £1689.99
£LOW

ST880 MOTHER KEYBOARD

Superb value fully weighted mother keyboard from Fatar, the world's largest supplier of keyboard actions. Features 88 notes with patented hammer action to realistically simulate the feel of an acoustic piano. Pitch bend and modulation wheels, full MIDI spec including dual outputs and sturdy build quality. Ask about our package deals with other modules!



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GUITARISTS - CALL NOW! 0800 328 1659

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Soho Soundhouse for a free catalogue - great service and great prices!

DTR-1 RACK-MOUNT DIGITAL TUNER

- Oversize easy to read LED meter.
- Auto tuning with 3 selectable modes: Strobe, Cent, Hz.
- Two tuning inputs to handle tuning of 2 instruments.
- Built-in microphone is perfect for tuning acoustic instruments.
- 3-Octave reference tone. • Cable check function.



RRP £249.99
£169.99

DTR-2 RACK-MOUNT DIGITAL TUNER

- Rack-mount auto chromatic tuner with large LED meter.
- Full 7 octave tuning range.
- Auto reference calibration function can automatically calibrate the tuner to instruments that are not easily tuned.



RRP £149.99
£99.99

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*We will best any genuine quote from a UK or European dealer at the time of order. We must be able to substantiate the quote and the goods must be available in stock. Prices include 10% VAT and apply to current stock only. UK mainland carriage from £9.99. Prices allow 10 working days for cheque clearance. Credit & accounts accepted.

PRICES GUARANTEED

DIGITAL 328 DIGITAL MIXING CONSOLE

NEW



Coming soon to the incredible new Spirit Digital 328. Not only do you get 32 channels each with moving faders, 3 band fully parametric EQ, 6 aux sends and total automation, but there's also 2 built in Lexicon effects processors, 2 high quality dynamics units, 16 channels of ADAT & TDF (so no need for extra cards), and on top of all this, the desk is 24 bit throughout and with the superb Esprit operation couldn't it be simpler. Likely to be the hottest recording product of the year!

Free Digitech Studio 400 with all advance orders only at Turnkey!

RRP £1499
FREE STUDIO 400 OFFER!
RRP £3499.99

FOLIO NOTEPAD PORTABLE MIXER

For quality mixing on a budget, this has to be the nearest solution around. "Great Soundcraft quality has been further enhanced by the use of surface mount technology and custom designed in-ear ports. 4 mono inputs are provided along with 2 stereo, which also feature RIAA preamps for record deck extension. 2 band EQ and an auxiliary send complete a highly flexible package."

RRP £149.99
£149.99

FOLIO F1 NEW MIXER

The introduction of the new F1 sees the Williams team of mixer manufacturers in top gear! Features include 3 aux sends, 100mm faders, 3 band mid sweep EQ and insert points. Available in 14 or 16 channel versions.

RRP £329
FROM £249.99

SPIRIT STUDIO CONSOLES BY SPIRIT

Soundcraft's Spirit Studio desks revolutionised the project studio market when they were introduced over 5 years ago offering sound quality and features only previously found on desks several times the price. Even then they were great value for money, but because Soundcraft have recouped their R&D costs, and because of our substantial buying power, they are now available at an unbelievable price. No other desks represents such fantastic value for money, just check out the feature list. 'In line' layout means 40.56 and 72 inputs respectively for the 16, 24 and 32 channel desks, 4 band EQ with 2 mid sweeps, 6 aux sends, 8 truc subgroups, direct outs on every channel, LED metering, fader reverse - the list is endless!

RRP £1537
£899.99 16 ch.

RRP £2063
£1299.99 24 ch.

RRP £2804
£1999.99 32 ch.

MONITOR 2 MID FIELD STUDIO MONITOR

TURNKEY MEGADEAL



Buying a great pair of speakers for your home studio setup often involves a compromise between sound quality, cost, bass performance and portability. Now you can have it all with this once in a lifetime deal on the stunning Alesis Monitor 2's.

Flat bass response down to 40Hz assisted by the substantial ported cabinets which come in a mirror image pair. The three way design with 10" woofer offers superior transparency with excellent quality reproduction across the whole frequency range. Power handling is up to 150w per speaker.

We cannot hold this offer forever - buy now before it's too late!

RRP £699
£349.99

BUNDLE WITH SERVO 550 only £699.99

FOLIO FX-16 16 CHAN MIXER WITH FX


NEW Buy a superb quality Lexicon effects unit, and get a fantastic Spirit by Soundcraft mixer thrown in free! The built in Lexicon caters for editable reverb, delay, chorus and regeneration effects, whilst the mixer features 16 main inputs, each with XLR and jack inputs, insert points and direct outs. UltraMic preamps, 3 band mid sweep EQ, 4 aux sends, solo in place, and 100mm Alps faders, and there are also an additional 10 inputs available for stereo sources and FX returns etc. Built like the proverbial outhouse, step up to quality now!

RRP £849
£669.99

FX-8 ALSO AVAILABLE only £349.99

GHOST CONSOLES

OPTIONAL METER BRIDGE AVAILABLE



Ultra low noise inputs, 4 band EQ with 2 fully parametric mids, up to 12 auxiliary sends, MIDI mute automation and MTR transport control are a few of the features that put other project consoles to shame (no MIDI on LE versions).

RRP £4617
£2499.99 24 ch. LE

RRP £6607
£2999.99 32 ch. LE

ABSOLUTE ZERO BY SPIRIT NEW NEARFIELDS

The latest addition to Soundcraft Spirit's monitor range is the Absolute Zero's. For those of us with slightly less demanding monitoring applications, they make the ideal choice.

RRP £199
£189.99

C1000 CONDENSOR MIC

The C1000 has become an industry standard amongst project studio owners and live performers alike offering as it does a great frequency response, and extraordinarily rugged construction for a condenser mic. It can be phantom powered or used with a 9v battery-and even comes with a polar response adaptor to change from cardioid to hyper-cardioid.

RRP £286
£129.99

WMS51BT WIRELESS MIC SYSTEM

High quality diversity radio mic systems have always been the preserve of the professional, due to the high costs often incurred with them. AKG's WMS-51 system breaks that tradition, offering an unbeatable price/performance ratio. The system consists of a belt pack transmitter which can accept any of the MicroMic series (including smiling) from Lavalier applications to sax, or electric guitar (cable included), while reception is handled by the SR51, a half rack receiver featuring balanced and unbalanced outputs, a control for squelch (RF interference resistant) and an auto mute facility. **Unbeatable clearance deal only at Turnkey!**

RRP £336
£169.99

WMS51HT HANDHELD ALSO AVAILABLE only £199.99

FOLIO SX MULTITRACK RECORDING CONSOLE

The Folio SX represents incredible value for money, offering as it does 12 mono and 2 stereo fader channels, 3 band mid sweep EQ, 3 aux sends and a whole host of other goodies. Optional rack ears also available.

RRP £479
£429.99

New low price only at Turnkey!

ABSOLUTE 2 BY SPIRIT STUDIO MONITORS

Here at last! Stunning sounding all locking monitors from the UK's leading mixer manufacturer. Incredible bass response and power handling at a killer price! In stock now, come in and audition them ASAP.

RRP £269
£LOW

C3000 LARGE DIAPHRAGM MIC

The C3000 uses all of AKG's experience in building large diaphragm mics such as the C1214 but by using modern manufacturing techniques, and only offering two patterns (cardioid and hyper cardioid) the price has been kept to a minimum. Its open sound and superb frequency response make it ideal for vocals, as well as sounding great on a variety of other instruments.

RRP £309
£189.99

AT4033 LARGE DIAPHRAGM MIC

For years the Neumann U87 dominated the large diaphragm condenser mic market, but this is a price. That was until the advent of the Audio Technica AT4033. For about one third of the price, it offers superb sound quality - sparkling vocals and scintillating guitars, and all the kind of qualities you would expect from this kind of mic. Now Turnkey have secured a quantity at a new unbelievable price. If you're in the market for a serious microphone, you can't afford to pass this one by! **This price is available on current stocks only.**

RRP £509
£299.99

SERVO 170 AMPLIFIER

Simson's Servo 170 is specifically designed for use with nearfield monitors, and does an excellent and unobtrusive job, tickling as close as possible to the "wire with gain" ideal for an amplifier. It offers a power rating of 85 Watts per channel RMS, making it an ideal purchase for most of today's near-field studio monitors. The standard 2u design means it fits neatly into your rack system, independent left and right volume controls are given, and there are built in signal and clip indicators together with protection circuitry to help prevent blowing your speakers!

RRP £299
£149.99

NT1 LARGE DIAPHRAGM MIC

Rode have quickly made a great name for themselves with the NT2, now the NT1 cut out the middle and offers the gold plated large diaphragm capsule gives a superb full frequency response, and is great for all round use and particularly good on vocals.

RRP £329
£189.99

If you only have one mic, this has got to be a strong contender!
NT2 ALSO AVAILABLE only £379.99

CONTROL 5 STUDIO MONITORS

These classic monitors from JBL have been a standard in studios for several years and still stand up very well against more recent competition. The solid build quality you can expect from JBL comes as standard and the ported design gives fantastic bass response. Internal fuses help to prevent blown tweeters and a compatible Turbosound sub-woofer is also available for only £199.99.

RRP £429
£199.99


SM58 INDUSTRY STANDARD DYNAMIC MIC

Shure's SM58 has been the industry standard microphone for as many years as we can remember, and even today it's still a great buy. Robust enough to withstand countless heavy metal gigs, versatile enough for a wide range of studio uses, the yardstick by which all other mics are judged, now at an unbeatable price.

RRP £169
£84.99

SOUNDLAB DLP3Rs & KAM GMX7 MIX PACK

INC FREE CABLES



A fantastic start-up direct drive bedroom package. The most respected name in DJ equipment. The outstanding DLP3R and the versatility of the GMX7 sampling mixer is sure to be a winner!

RRP £649
£429.99

CALL TURNKEY LOOPSTATION ON 0171 497 5737 FOR DETAILS

GI-10P GUITAR MIDI INTERFACE

OVER 40% OFF!



The GI-10 opens the world of MIDI and computer sequencing to any guitarist. Fast and accurate pitch to MIDI converters on microphone input pack translating voice to MIDI, navigation pedals, and the GK-2A controller pickup will be ready and effortless once virtually any guitar. As ever, these will be sold on a first come, first served basis, as stocks are extremely limited.

RRP £577
£299.99

CALL SOHO SOUNDHOUSE ON 0800 328 1659 FOR DETAILS

IMPACT SERIES

The Impact range from Turbosound offers a seriously unheard of price - for example we can offer the superb Impact 1200 at only £299.99 a pair - incredible value for money!

RRP £599
£199.99

CALL TURNKEY LOOPSTATION ON 0171 497 5737 FOR DETAILS

SL 1210 MKII TURNTABLE

After more than 10 years at the top, Technics SL 1210s are still holding their own. Solid build quality, near instant start & stop and a fully featured remote control make this a truly unique piece of audio equipment. The SL 1210 is also available with a clear dust cover for an extra £100.

RRP £409
£349.99

CALL TURNKEY LOOPSTATION ON 0171 497 5737 FOR DETAILS

GI-10P GUITAR MIDI INTERFACE

RRP £577
£299.99

CALL SOHO SOUNDHOUSE ON 0800 328 1659 FOR DETAILS

DPM1 MONITORS FROM HARBETH ACOUSTICS

Many of today's popular budget monitors sound impressive on the store, with unimpaired bottom end and sparkling treble. But mics made on these monitors can still sound wrong when played on other systems. The problem? Lack of clarity and detail in the mid range, particularly vital when working with vocals and lead instruments. Harbeth manufacturers of monitors for the BBC and others for many years now address this problem with their new expression nearfield monitors, offering great frequency response, and excellent mid-range clarity.

RRP £399
£329.99

DPM1PRO ACTIVE ALSO AVAILABLE only £699

POWERSTATION 600 PA MIXER BY SPIRIT

The PowerStation has been revamped, and this is the first of a 3 model range. Power is up to 350W per channel, there are 6 mono and 2 stereo inputs, Lexicon reverb effects get 2 additional parameters, there's 3 band mid sweep EQ, and 4 aux sends, 8 truce subgroups, direct outs on every channel, LED metering, fader reverse - the list is endless!

RRP £1549
£899.99

RRP £2063
£1299.99

RRP £2804
£1999.99

CALL TURNKEY LOOPSTATION ON 0171 497 5737 FOR DETAILS

Hooter Sound B1

Mic Amp / Compressor / Limiter / Gate

PAUL WHITE encounters a budget recording preamp with a colourful pedigree.

Hooter Sound is a new company set up by audio designer Ted Fletcher (the man behind the successful Joemeek range of processors) with the aim of manufacturing good quality budget audio products specifically for musicians working with computers. The majority of budget soundcards have acceptable line-level input stages in terms of noise and distortion but their mic inputs, if they exist at all, tend to be pretty perfunctory, and of course they don't have regular 48 volt phantom power. The Hooter Sound B1 is a desktop mic/line preamp with onboard compression, limiting, gating and phantom power that can be used via the line input of a typical soundcard to give considerably improved performance, especially when working with microphones.

Joemeek's bright green livery brought that product line immediate recognition, so clearly Ted has followed the same philosophy with the canary yellow Hooters.

Housed in a simple but tough steel case, the B1 is powered from an included AC mains adaptor and fitted with rubber feet for desktop use. Other than the PSU connector, the rear panel provides a balanced XLR mic input, a phantom power switch and a 470k Ω impedance unbalanced line/instrument input jack. There are two identical unbalanced

outputs, again on jacks, the idea being that one can be used to feed the soundcard and the other to feed a monitor system if necessary. Of course you don't have to use the B1 with a soundcard — it is also well suited to use with other recording formats.

The mic amp is based around the SSM 2017 dedicated microphone preamplifier chip. This device is often found in good quality mid-price mixers and stand-alone mic preamps, and certainly performs better than the mic amps found in most project studio consoles. A rotary gain control provides up to 60dB of mic gain (the same as most mixers) and a red LED shows when the phantom power is active. The line input impedance of 470k Ω is a good compromise given that both instrument (including guitar and bass) and line signals must be accommodated.

Next comes a (very) soft-knee compressor, which has been deliberately simplified to make it intuitive to use for those with less recording experience. It also has its own Bypass button with green status LED. There are only two controls, Ratio (1:1 up to 8:1) and Release: there's no threshold control or make-up gain. The Ratio control is linked to the compressor gain in such a way that as the ratio increases, the impression of loudness also increases. The compressor threshold is preset, though adjustments can be made using the preamp gain control as this changes the input signal level in relation to the fixed threshold. Unlike the Joemeek compressors that use an optical gain control element, the Hooter's compressor is based on a new Analogue Devices chip, which incorporates a VCA. One casualty

pros & cons

HOOTER SOUND B1 £161

pros

- Low cost.
- Easy to use.
- Clean audio path.
- Cheerful packaging.

cons

- Another mains adaptor!
- No gain reduction metering.
- Controls may be over-simple for some users.

summary

An affordable voice/line/instrument channel that can significantly improve the quality of recordings made via a typical soundcard while also providing the user with compression, limiting and gating.

SOUND ON SOUND

of cost saving, however, is that there's no visual indication of how much compression is taking place, so all setting up must be done by ear, ideally using the gate to mop up noise during pauses.

The limiter is an integral part of the compressor circuit and has no user-accessible controls. When the signal approaches a preset limit threshold of around +10dB, the compression ratio automatically rises to around 14:1. According to the manual, the circuit has been designed to effect a smooth transition between compression and limiting. As the B1 is primarily designed to be used with soundcards, the limit function is a valuable asset in helping to avoid overloading the card's analogue-to-digital converters. A large Peak LED in the middle of the front panel shows when limiting is taking place. A Mute button directly after the compressor can be used to mute the signal when changing microphones and this has a flashing red status LED.

Immediately following the compressor is a gate built around 'soft' switching circuitry and, once again, the controls are very simple. Other than the gate's Bypass button, there's only a red On LED and a Threshold control. The gate operates via the same VCA as the compressor, making it useful for cleaning up noise during pauses where heavy compression is being used.

Finally comes an output level control and LED level meter comprising two green LEDs, a yellow LED, an orange LED and a red Max LED. Compression occurs up to the level

