

# The Hybrid Music System

“There is no comparable integrated music system for any micro.”

The Guardian

## MUSIC 2000 INTERFACE

The Music 2000 Interface is the link between the Hybrid Music System and equipment fitted with *MIDI*, an interface designed to allow common control of electronic music instruments produced by different manufacturers.

To the existing Hybrid Music System owner, the Music 2000 Interface adds the ability to use MIDI synthesisers and drum machines to expand the number and range of sounds in the System. Anything from a simple portable keyboard to a dedicated expander module can be assigned to play one or more parts of a composition alongside the Music 5000 Synthesiser. A special Notepad screen lets the user set the

main MIDI options for each part, plus additional options chosen or defined from a full set of MIDI control words. MIDI settings may also be named and inserted at any point in the music.

```
Studio 5000 Notepad ID 108638
got "mix9" to make "mix9"
trying "RETGATE"
-----
5 SHARE 8 VOICES MIDIV 1 MIDICHANNEL
1 MIDILINE 13 MIDIPROGRAM
6 SHARE 8 VOICES MIDIV 1 MIDICHANNEL
2 MIDILINE 7 MIDIPROGRAM
7 SHARE 8 VOICES MIDIV 1 MIDICHANNEL
3 MIDILINE 12 MIDIPROGRAM
8 SHARE 7 VOICES MIDIV 2 MIDICHANNEL
1 MIDILINE 41 MIDIPROGRAM
9 SHARE 1 VOICES MIDIRT 3 MIDILINE
-----
PNUM SHARE
-----
%SHOW
mix9
1 word, no data
%
```

To the MIDI user, the combination of AMPLE and the Music 2000 Interface provides an enormously powerful and versatile MIDI controller. The Music 2000's MIDI control words turn AMPLE into a MIDI programming language whose capabilities and applications extending far beyond those of conventional task-specific MIDI software.

### Hardware features

- compatibility with all MIDI-receiving equipment
- three independent MIDI OUT's, each with LED data monitor
- MIDI IN for use by user machine-code routines
- compact styling to match the Music 5000 Synthesiser

### Software features

- performance of music from Staff, Recorder, Keyboard etc.
- 32 voices, assignable up to 12 per part on up to 10 parts
- routing of each voice to any MIDI channel on any OUT
- timing clock and start/stop/continue routable to any OUT
- patch, controller, mode, bend and pressure for each voice
- independent strike and release key velocities
- all transmit modes inc. Mode 4, Voice/Basic Channel etc.
- user-definable song position pointers and song select
- user-definable messages for future MIDI spec. extensions
- user-definable computed system exclusive messages
- user-definable named MIDI instrument definitions
- eleven MIDI control words added to the AMPLE vocabulary
- all facilities usable from the AMPLE programming language
- 100% complete MIDI Implementation – not a single Chart 'X'

### Applications

- up to 32 more voices from up to 32 MIDI instruments
- additional synthesiser and drum machine instrument sounds
- rhythm parts played by drum machines
- rhythm parts made up by sequencing drum machine patterns
- additional chord and melody parts, played by sequencers
- additional separate outputs for studio effects and recording
- automated control of mixers, sound processors, lighting etc
- transfer of compositions to other computers and sequencers
- generation of sequences for MIDI test, analysis and control

### Documentation

- User Guide (80 A5 pages) containing: Contents list; Introduction to MIDI; Playing voices; Controlling sequencers and drum machines; Further applications; Dictionary of words; Implementation information; MIDI Specification summary; Index; MIDI IN interface info for programmers
- Installation Guide (4 A5 pages)

### Connections

- 1MHz bus ribbon cable (500mm) to Music 5000 Synthesiser
- BBC power connector and lead, with pass-on for disc drive
- sockets for MIDI OUT1, OUT2, OUT3 and IN

### Package contents

- Music 2000 Interface unit (237 x 155 x 55mm)
- Music 2000 User Guide
- Music 2000 Installation Guide
- Studio -2 Issue Disc (dual 40/80-track DFS)

### Other equipment required

- Music 5000 Synthesiser, installed and tested (For simultaneous use of Staff Editor and Music 2000, BBC Model B plus shadow RAM, B+ or Master 128 is required.)
- one blank disc
- MIDI instrument, and MIDI lead (see price list)

### Terms of supply

Each Music 2000 is supplied for use with one particular AMPLE Nucleus ROM, identified by its ID at time of ordering.

### Price and ordering information

Please see enclosed price list and order form.

# HYBRID

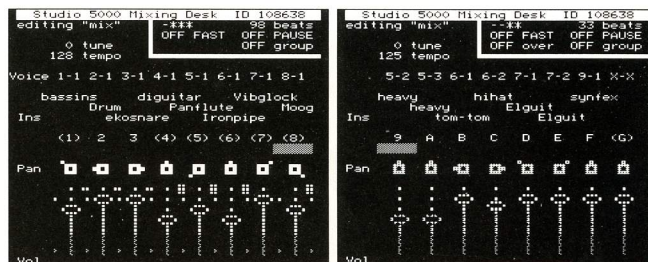
Hybrid Technology Ltd, 273 The Science Park, Cambridge CB4 4WE  
Tel: (0223) 420360

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## MUSIC 3000 EXPANDER



The Music 3000 Expander doubles the power of the Hybrid Music System by adding sixteen further sound channels to the existing sixteen of the Music 5000 Synthesiser, making a total of thirty-two. In operation, the system automatically draws on Music 3000 channels when all Music 5000 channels are already in use, so the Music 3000 instantly provides:

- more voices in total
- more voices per part
- more parts
- more echo
- more instrument layers
- more many-channelled instruments
- more channels in new instrument designs
- more keyboard polyphony

With the Music 5000 alone, the system allows up to eight voices. With the sixteen additional channels of the Music 3000, this is increased to sixteen voices. Alternatively, the same number of voices as before may use more-complex instruments (four or more channels), or a combination of more voices and more-complex instruments may be used.

All existing software facilities make automatic use of the Music 3000 when required. The Mixing Desk is twice as wide as before – to show sixteen voices, its display scrolls horizontally when the cursor reaches the edge of the screen.

The Music 5000 and Music 3000 outputs may be combined using the Music 3000 adapter lead, or used independently, e.g. routed through separate studio effects before mixing, or treated as four outputs for quad amplification or recording.

### Capacities of Music 5000 plus Music 3000

- |   |                |
|---|----------------|
| • total number of channels:               | 32             |
| • total number of voices:                 | up to 16       |
| • total number of separate outputs:       | 4 (2 per unit) |
| • max. number of voices per part:         | 12             |
| • max. number of parts:                   | 10             |
| • max. keyboard polyphony:                | 12             |
| • max. number of channels per instrument: | 32             |

### User program compatibility

The Music 3000 is completely upwards compatible from the Music 5000. Any piece created with the Music 5000 alone may be loaded and played as is, or expanded to use the additional channels. Any instrument created with the Music 5000 alone may be played on the Music 5000/Music 3000 combination. Any piece created with the Music 5000/Music 3000 combination may be transferred back to the Music 5000 alone, provided that no more than 16 sound channels are used.

### Connections

- standard 5-pin DIN audio socket
- 1MHz bus ribbon cable (500mm) to Music 5000 Synthesiser
- 1MHz bus pass-on connector for Music 2000 Interface
- mains lead and plug, with power switch on rear of unit

### Documentation

- User instructions (6 A5 pages)

### Package contents

- Music 3000 Expander unit (237 x 155 x 55mm)
- Music 3000 user instructions
- Studio -3 Issue Disc (dual 40/80-track DFS)

### Other equipment required

- Music 5000 Synthesiser, installed and tested  
(For simultaneous use of Staff Editor and Music 3000, BBC Model B plus shadow RAM, B+ or Master 128 is required.)
- one blank disc

### Further hardware recommended

- Music 3000 adapter lead, to connect the outputs of both the Music 5000 and Music 3000 to a single 5-pin DIN audio lead

### Terms of supply

Each Music 3000 is supplied for use with one particular AMPLE Nucleus ROM, identified by its ID at time of ordering.

### Price and ordering information

Please see enclosed price list and order form.