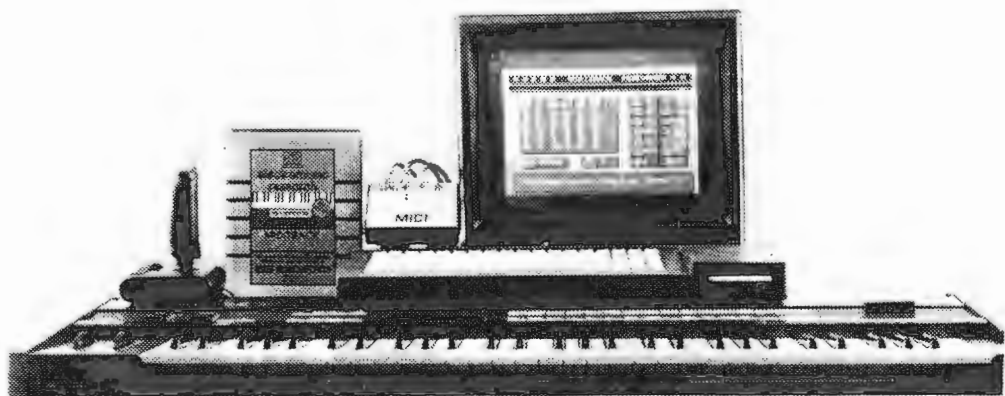




**electromusic research**

*PRESENTS*

**THE NEW  
MIDITRACK  
MUSIC SYSTEM**



**-FOR HOME COMPUTERS  
AND MIDI INSTRUMENTS-**

EMR's MIDITRACK MUSIC SYSTEM brings the hi-tech world of computing to music, opening up creative and useful ways of controlling the sounds, recording and performance of MIDI-equipped instruments.

There's no chance of the micro taking away the skills of budding musicians and pros alike, but it will provide some pretty powerful "tools" for putting together and playing music.

# MIDITRACK PERFORMER

URNS YOUR MICRO INTO A STATE-OF-THE-ART 8-TRACK REALTIME DIGITAL RECORDING SYSTEM! PACKED WITH INNOVATIVE FEATURES GIVING FULL MICRO CONTROL OF YOUR MUSIC SO THAT EVERYTHING YOU PLAY ON A MIDI INSTRUMENT IS FAITHFULLY REPRODUCED ON PLAYBACK - START WITH ONE INSTRUMENT AND EXPAND YOUR SYSTEM TO INCLUDE OTHER MIDI KEYBOARDS, RHYTHM UNITS, SAMPLERS AND EFFECTS.

Simulates the control of a multitrack digital tape recorder, with wide speed variation, punch-in, track merging, mono/poly mode or transposition, sync and full polyphonic recording of all MIDI playing data, including note events, dynamics, modulation controls (including after-touch) and voice changes.

Bars are counted to a given time signature, with metronome output, bar start, tempo, repeats, auto note correct and count-in all assignable. Tracks can be looped and arranged to play in any order, while MIDI channel assignment makes it possible to play individual tracks on different instruments and a text window holds relevant details on each piece you record.

This is a state-of-the-art program for recording a final performance that's only restricted by your playing skill and creative imagination!

ENR MIDITRACK PERFORMER VI.1

TRACKS	1	2	3	4	5	6	7	8
CHANNEL	1	1	2	3	4	1	1	1
LOOP								
MODE	P	P	P	P	P	P	P	P

TEMPO 4-4 play 255 COUNT 4  
Tempo 219 Metronome M clock 1  
StartBar 1 Zap text  
MidiChan 1 Editor  
L V U Arrange & Notes

COMMAND WINDOW

4th Movement excerpt (Grand)  
CH 1 PIANO GOLD CH 2 DULCIE BASS  
CH 3 STRINGS CH 4 BRASS

MIDI DATA MUSIC RULER

TRACK NO. CHANNEL CONTROL ARRANGE PLAY

PLAY LOOP PITCH

METRONOME  
COUNT-IN  
CLOCK  
TEMPO  
PLAYS  
TIME SIGNATURE  
START BAR

SAVE  
LOAD  
OK  
CLEAR  
TEXT  
ARRANGE  
TIME CORRECT

FILES  
DELETE  
CASSETTE  
DISK  
FILING  
NAME

FREE 32322 STOP BAR 5

COMMAND WINDOW SHOWS PLAY, RECORD, PUNCH-IN or EXIT  
ALSO SAVE, LOAD, OK, DELETE, FILES, TEXT & CLEAR

PLAYING

START & STOP:  
USE SPACEBAR or  
JOYSTICK FIRE BUTTON

TEMPO adjusted by MICRO: UP ARROW = FASTER, DOWN ARROW = SLOWER

# MIDITRACK COMPOSER

PUTTING TOGETHER YOUR MUSIC  
STEP BY STEP CAN BE ONE OF THE  
EASIEST WAYS TO CREATE YOUR  
OWN COMPOSITION - AND ONE OF  
THE MOST ACCURATE!

ELECTROMUSIC MIDITRACK V1.2

1	4	CONTROL 2=	45	
1	4	C 2	mf	24
1	6	C#4	f	12
1	7	A#2	fff	12
1	8	B 2	f	12
1	9	CONTROL 2=	0	
1	10	CONTROL 3=	100	
1	11	R	f	12
1	12	C 4	f	12
1	13	C 5	f	12
1	14	CONTROL 4=	24	
1	15	C 5	f	12
1	16	CONTROL 5=	2	
1	17	VOICE	= 34	

L=List B=Beats D=Delete I=Insert  
R=Replace C=Copy T=Tempo  
P=Play Q=Quit COMPOSER

Create your music step by step at the computer - using the MIDI keyboard or rhythm unit to make note or percussion entry easier. Each "MIDITRACK" consists of a solo instrumental part that can be combined to play one or more instruments together. Although each track is usually a melody line, it can also contain other types of MIDI "events" for setting dynamics, style, voice changes and performance controls like vibrato and portamento. A MIDI rhythm unit can have percussion parts added over its set patterns.

Full editing features through changing "windows" and screen "pages" allow you to put together a note-perfect composition from easy-play music to a full ensemble score, making the program ideal for beginners and professionals alike.

# MIDITRACK NOTATOR

UNDOUBTEDLY, THE AUTOMATIC PRODUCTION OF NOTATION FROM PLAYED OR RECORDED MUSIC HAS BEEN ONE OF THE MOST EAGERLY AWAITED DEVELOPMENTS TO COME FROM HOME COMPUTERS. EMR'S NOTATOR PACKAGES OFFER DIFFERENT WAYS OF GETTING YOUR MUSIC INTO PRINT - NOTATOR 1 TAKES A RECORDED PIECE AND ALMOST MAGICALLY TURNS IT INTO PRINTED MUSIC! DEPENDING ON THE MICRO, YOU SHOULD FIND A NOTATOR SYSTEM TO SUIT YOUR NEEDS...NOTATOR 2 IS THE LATEST DEVELOPMENT THAT PUTS 32 FULLY POLYPHONIC TRACKS ONTO THE TV SCREEN AND NOT ONLY PRINTS IT ALL, BUT PLAYS IT VIA MIDI OR INTERNAL MICRO SOUNDS. ASK FOR MORE DETAILS.

## NOTATOR 1

Take a track from the COMPOSER and see it written out in traditional musical notation on a dot-matrix printer! You can set up the part-writing as you view your music on the TV screen for treble and/or bass clef, key and time signatures, as well as being able to transpose the whole track - a tremendous educational aid for use with orchestral transposing instruments. In addition to note output from any bar, the original dynamics, voice changes and modulation controls can be printed automatically, along with

EMR MIDITRACK NOTATOR I

Music Printing System  
for  
Miditrack Composer

VCF 2  
Tempo 158  
3:00

Music produced from a COMPOSER track.  
Lyrics are added here.....Press a key

your typed lyrics page by page, giving a complete copy of your music. Extra features like stem adjustment, window colour and controlled output of any bar makes this notator package an exciting addition to MIDITRACK that can be used by musicians of all levels.

## MIDITRACK EDITOR

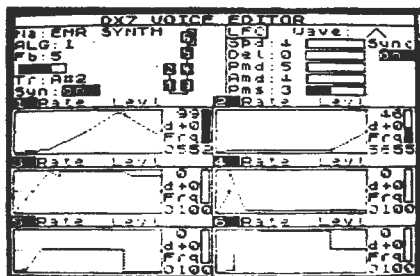
THIS ADVANCED MUSIC EDITOR LETS YOU GET YOUR PERFORMER OR COMPOSER MUSIC CORRECT TO THE SMALLEST DETAIL. IT ALSO COMBINES STEPTIME AND REALTIME MUSIC AND JOINS TOGETHER WHOLE PERFORMER PIECES FOR SEQUENTIAL PLAYBACK, RETAINING TEMPO SETTINGS FROM ONE PIECE TO THE NEXT. AN ADDITIONAL PROGRAM "MUSIC PLAYER" IS INCLUDED FOR QUICK AND EASY PLAYBACK.

Take your music from the PERFORMER or COMPOSER and with the MUSIC EDITOR you'll be able to precisely pin-point any wrong note and alter any part of your composition under MIDI control. Note pitch, dynamics or duration as well as other performance settings can be heard and studied from any bar of music and then listed in full detail on your printer or TV screen.

Any tracks from the COMPOSER can be added to realtime tracks on the PERFORMER to make full use of both types of recording. Linking together complete PERFORMER pieces in sequence is no problem using the EDITOR and a separate MUSIC PLAYER program is included to load and play these extended compositions quickly and easily.

EVENT	1	2	3	4	5	6	7	8	9	10
1	E 1 73									
2	B 2 73									
3	C N L 1	24								
4	B 2 73									
5	C T R L 2	127	127							
6	E 3 60									
7	C T R L 3	64	127							
8	V O I C E	45								
9	A T T A C H	12								
10	E 3 73									

## MIDITRACK TOOLKIT



In addition to the MIDITRACK products described, EMR are always seeking to expand their music software range available. Amongst the most useful of MIDI "toolkits" are the VOICE EDITOR and MIDIBANK LIBRARY. A more dramatic use of MIDI is for the construction of realtime graphic images on screen during MIDI playback, as in VU-MUSIC.

The VOICE EDITOR uses the computer screen to display a particular MIDI instrument's sound-making or controlling parameters. By changing these parameters - and hearing instantly the new sound -

the program is an efficient means of creating new voices that can be stored on disk or tape and later down-loaded into an instrument for use in performance.

At present, the transfer and retrieval of actual sound-making parameters is limited to specific MIDI instruments, each requiring their own dedicated software program on a particular computer.

The computer's filing system, whether disk or cassette, is an ideal means of storing preset voice sounds (and sequences too) used on MIDI keyboards or rhythm units. Like the VOICE EDITOR programs, not all MIDI instruments allow down-loading of sound parameter sets, but when possible, a MIDIBANK is included with a VOICE EDITOR for a specific MIDI instrument to form a vast library of sounds. When used with a disk system, retrieval of one sound or even a whole "MIDIBANK" to replace your instrument's existing set takes only a few seconds.



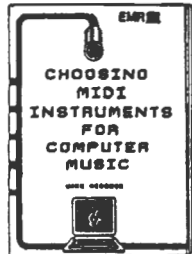
Now you can become the performer, composer, arranger and conductor of your music whenever you want - in fact, the EMR MIDITRACK Music System will turn your computer into a super recording machine, letting you make a hi-tech control centre at home, school or in the studio.

You don't have to be a brilliant musician to use MIDITRACK and you won't need to know the technical side of computing either! Learning about music will become a new practical experience for you to enjoy for the rest of your life.

All you need to get started is a MIDI-equipped instrument - usually a portable keyboard or synthesiser (with a couple of 5-pin DIN cables for MIDI IN and OUT sockets), a home computer plus suitable monitor TV and disk drive or cassette, along with an EMR Interface to link them together. Various computers are supported by EMR with the range being constantly expanded - each computer requires its own EMR interface and EMR software programs on disk, cassette, EPROM or other storage medium.



MIDI means "Musical Instrument Digital Interface" and was introduced to bring some compatibility between instruments that were themselves making use of computer technology for digital control of their sounds. A new range of "easy hi-tech music learning" books from EMR (each price £1.50 + 25p P&P) includes an informative booklet entitled "MIDI, MICROS & MUSIC" which provides an introduction to using MIDI instruments with your home computer.



The second booklet in the series is "Choosing MIDI Instruments for Computer Music". This offers valuable advice on making the right choice of keyboard instrument along with other drum machines etc to suit your home micro. Now you can find out at a glance what each instrument can do when controlled by computer MIDI!

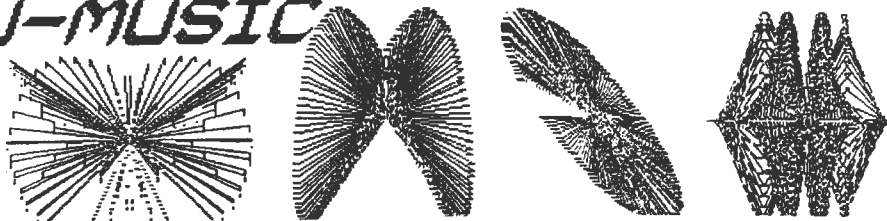
EMR also gives free consultation to first-time buyers of MIDI instruments and can supply complete packages direct to your home for purchase with MIDI instruments of your choice, plus EMR systems included FREE or at SUBSTANTIAL DISCOUNT. Contact our keyboard sales dept for more details.

Thanks to the acceptance of MIDI by all the important musical instrument manufacturers, MIDITRACK will become the starting point for a music making system that can be expanded to suit your pocket at any time. You won't be buying a system that'll be redundant because you're buying the on-going use of MIDI and EMR's commitment to computer music.

Once you have an EMR interface linked to your computer and a MIDI-equipped keyboard, you can choose one or more MIDITRACK software packages available on your computer to suit your needs.



# VU-MUSIC

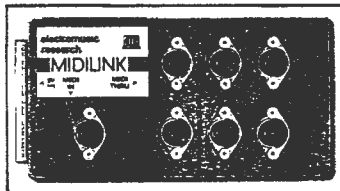
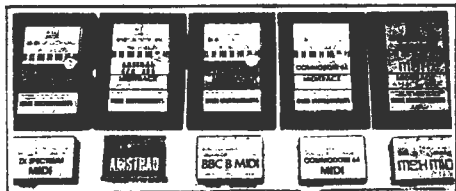


Most of us are familiar with large projection screens used in entertainment for displaying visuals to music, and now the home computer can offer an exciting development in graphic interpretation when linked to a MIDI-instrument and displayed on your colour TV.

The first of these VU-MUSIC programs employs the usual MIDI-instrument/EMR Interface/Computer link-up. As you play your MIDI keyboard, a selected VU-MUSIC "mood", from pop, jazz, rock to classical, will provide a unique display that responds to MIDI data - notes played, dynamics, modulation, voice changes, etc. Each of the mood phases can be quickly set up as you play and the ultra-fast movement generation employed responds to the fastest musical passages. Connect this to your video recorder via audio and video inputs and you'll be able to record your own music video demo!

EMR MIDITRACK will operate on all current MIDI instruments and is suitable for connection to MIDI-equipped personal keyboards, synthesizers, samplers, organs, guitar synths, rhythm units, sequencers and effects processors, with the software supplying timing codes where necessary to play everything in synchronisation over a wide tempo range.

An EMR MIDI interface suitable for your computer will be needed to operate MIDITRACK software. The standard interface connects to the computer via flexible ribbon cable and expansion/cartridge/port link as appropriate and contains CLOCK START/STOP IN (for connection to non-MIDI SYNC OUT sources), MIDI IN and 2xMIDI OUT 5-pin DIN sockets, plus LED indication of MIDI data transmission.



Of course, if you want to get different sounds playing back together using MIDITRACK PERFORMER or COMPOSER, you'll need an instrument for each new sound - unless you have a "multi-timbral" MIDI instrument.

As you expand your set-up, you'll find EMR's MIDILINK unit essential for linking extra instruments to the MIDI interface and reducing the delay time that can occur when "chaining" instruments from their MIDI THRU sockets. One MIDI IN is expanded to 6 MIDI THRU outputs.

Even the older rhythm units, sequencers and microcomposers with "SYNC OUT" can be plugged in to the EMR MIDI Interface to take over timing control of the computer and any MIDI instruments linked up.

A low cost SYNC TO TAPE option is available for the EMR Interface - this is now a separate unit (battery-powered or 9V adaptor, connecting to CLOCK START/STOP socket). It provides "click track" recording facilities for tape multitrackers or may be used with good quality stereo recorders for variable tempo recording.

## EMR RESEARCH

EMR works closely with major instrument manufacturers in providing specialized hardware and software packages. The degree of technological input on a home computer produces a remarkable step forward in the control of music and the creation and manipulation of instrument sounds - for example, who would have believed that a home micro could be recording 20 minutes of music? EMR's research team have led the way for MIDI control on the BBC B and this has expanded to include the ZX Spectrum, Commodore 64, Amstrad CPC 464/664 & 6128, Research Machines Link 4802 and MSX 1 & 2 8-bit machines, as well as development now in progress for Amstrad PCW8256/8512 and IBM compatible, Atari 520ST etc.

A careful balance of computer programmers, teachers and musicians from different countries contribute to the final programs in order to produce software suitable for home entertainment, education and professional studio and stage use.



TELEPHONE

0702 335747

## EMR MIDILINE

EMR MIDILINE

Finally, of particular importance to the consumer - whether primarily a musician or a computer user - is the EMR MIDILINE (UK Telephone: 0702 335747) that offers support to potential and existing EMR users in advising on MIDI operation and set-up, and in providing updating of your software and hardware, in order that your MIDI micro-assisted music system can benefit from the continual development in this fast expanding area of hi-tech music.

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