

Expanding the Range of Sound Creation with Software

Software has now fully entered the realm of electronic music. With the proper software and application programs, sound creation and synthesizer programming have the possibility of becoming faster and more creative than ever before. Now KORG answers this technological challenge by providing applications for the M1 and M1R Music Workstations.

KORG SOUND LIBRARY PCM PROGRAM CARD

The M1 and M1R Music Workstations are the first instruments to utilize Multisound 16-bit PCM sound data in a synthesizer. With the PCM Program Cards, which are continually being designed by expert sound engineers, the M1 and M1R can supply new program Combinations as well as PCM sound data. Each card provides you with a whole new set of sound building tools and variations with which to work.

MSC-1S

- MSC-2S "SYNTHE1"
- MSC-3S "DRUM1"
- MSC-4S "ORCHESTRA"
- •MSC-5S "PIANO"
- MSC-6S "FRETTED INST1"
- MSC-7S "SYNTHE2"
- MSC-8S "PERCUSSION1"
- •MSC-9S "ORGAN"
- MSC-10S "ETHNIC1"
- MSC-11S "BRASS"

KORG SOUND LIBRARY **PROGRAM CARDS**

These cards are the products of expert synthesizer programmers, currently active in the forefront of modern music production, and were created by taking full advantage of the advanced capabilities of the M1 and MIR (100 Programs and 100 Combinations are included on each card.). The Programs and Combinations can, be used as they are, for live concert or studio recording work. However, they also provide a valuable creative springboard by which you can create your own Programs and Combinations.

- •MPC-11 AKIRA
- ●MPC-12 WORLD OMNIBUS
- •MPC-13 BUNMAY
- •MPC-00 M1 STANDARD (pre-loaded preset program data)

SEQUENCE CARDS

These cards contain specially programmed sequence data and rhythm pattern data for the M1 and M1R. •MPC-00S "Oh, Yes!" (pre-loaded sequence data)

•MPC-P01 "Rhythm/Standard" (rhythm pattern data)

MUSIC POWER

KORG INC. 15-12, Shi





THE KORG PROFESSIONAL PERFORMANCE SERIES







From the Building of Sounds to the Creation of Music. A Workstation for the Modern Musician.

The music scene is in a state of constant change. New trends, new sources of inspiration, new creative avenues open up continuously. More now than ever before, instruments that allow musicians to instantly transform the products of their imagination into expressive music are needed.

With the AI Synthesis System, upon which the M1 and M1R are based, music professionals and musicians of every caliber have found just what they need.

The AI Synthesis System features four different types of built-in sampled sound data-all of high-quality 16-bit resolution, stored in the large capacity 2-MegaWord (4-Megabyte) ROM memory, and processed completely in digital form by two independent synthesizer systems.

This approach, the AI Synthesis System takes the expressional range of the synthesizer one quantum leap forward.

RICHLY TEXTURED, HIGH-QUALITY SOUND—THE AI SYNTHESIS SYSTEM



MIR

SUPERIOR SOUND QUALITY AND EXPRESSIVE POWER THROUGH THE AI SYNTHESIS SYSTEM

The accuracy of digital sound is preserved from the very beginning, with the original sound data to the application of effects. This is the secret behind the Al Synthesis System and is the secret by which top players and music professionals worldwide are taking sound creation to unprecedented heights. The main characteristic of the Al Synthesis System is its four different types of built-in 16-bit guality sampled sound data, stored in the large capacity 2-MegaWord (4-Megabyte) sound data bank. Two independent synthesizer systems round out this advanced sound generation method, perfectly preserving the sonic quality of the signal through complete digital processing.

This is how the synthesizer has taken one quantum leap forward. This is Al Synthesis.

SOUND DATA SECTION: **4 TYPES, 144 DIFFERENT SOUNDS**

The AI Synthesis System consists of 4 separate sections. Sound data section is basis of this system and is composed of Multi-Sound data, Digital Synthesizer Waveform data, Drum Sound data, and Separated Waveform data. A total of 144 sounds are included among these four types of waveforms. Because of the wide variation of sounds available, you can select precisely the sound that you want, before you even begin building it and editing it. Moreover, you can assign different sounds to the two oscillators for creation of an absolutely unlimited amount of sounds.



PROCESSING CHART The organization chart of the AI synthesis system can be divided into four main sections as shown below



Sound Data List

1 Piano 2 E. Piano 1 3 E. Piano 2 4 Clav

5 Harpsicoro 6 Organ 1 7 Organ 2 8 Magic Org 9 Guitar 1 10 Guitar 2 11 E. Guitar

17 Fretless 18 Synthe Ba 19 Synthe Ba 20 Vibes 21 Bell 22 Tubular 23 Bell Fing 24 Kalimba 25 Kalimba 26 Syn Mallet 28 Pan Flute 29 Bottles 30 Voices 30 Voices 31 Choir 32 Strings 33 Brass 1 34 Brass 2 35 Tenor Sax 36 Mute TP

-	38 Tuba Flugel	73 DWGS Organ 2	107 Snare 4
_	39 Double Reed	74 DWGS Voice	108 Side Stic
	40 Koto Trem	75 Square Wave	109 Tom 1
	41 Bamboo Trem	76 Digital 1	110 Tom 2
	42 Rhythm	77 Saw Wave	111 Closed H
1	43 Lore	78 Digital 2	112 Open HH
	44 Lore*	79 25% Pulse	113 Closed H
	45 Flexatone	80 10% Pulse	114 Open HH
an	46 Wind Bells	81 Digital 3	115 Crash
pan	47 Pole	82 Digital 4	116 Conga 1
	48 Block	83 Digital 5	117 Conga 2
	49 Finger Snap	84 DWGS TRI	118 Timbales
	50 Pop	85 DWGS Sine	119 Timbales
	51 Drop	1 00 DITO OTE	120 Cowbell
	52 Breath	Separated Waveform Data	121 Claps
	53 Pluck	86 Pole	122 Tamborir
	54 Vibe Hit	87 Blook	123 E. Tom
	55 Metal Hit		124 Ride
	56 Pick	88 Drop 89 Breath	125 Rap
ISS 1	57 Distortion	90 Pluck	126 Whip
ISS 2	58 Wire		127 Shaker
	59 Pan Wave	91 Vibe Hit	128 Pole
	60 Ping Wave	92 Hammer	129 Block
	61 Fy Wave	93 Metal Hit	130 Finger Sr
	62 My Wave	94 Dist	131 Drop
	102 MIN MANE	95 Bass Thumb	132 Vibe Hit
	Digital Synthesizer	96 Bas Thumb 1	133 Hammer
	Waveborm Data	97 Bas Thumb 2	134 Metal Hit
	CONTRACTOR OF THE OWNER OF THE OWNER	98 Voice Wave	135 Pluck
	63 DWGS E.P. 1	99 Voice Wv 1	136 Flexa To
	64 DWGS E.P. 2	100 Voice Wv 2	137 Wind Be
	65 DWGS E.P. 3	Drum Sound Data	138 Tubular 1
	66 DWGS Piano		139 Tubular
	67 DWGS Clav	101 Kick 1	140 Tubular 3
	68 DWGS Vibe	102 Kick 2	141 Tubular
	69 DWGS Bass 1	103 Kick 3	
	70 DWGS Bass 2	104 Snare 1	142 Bell Ring
	71 DWGS Bell 1	105 Snare 2	143 Metronor
	72 DWGS Organ 1	106 Snare 3	144 Metronon

* Programs marked with an asterisk have the same pitch throughout the range of the keyboard

NEWLY DEVELOPED VDF FOR SMOOTH. **CLEAR FILTERING**

In the VDF (variable digital filter) and VDA (variable digital amplifier) sections, the basic sounds produced in the sound data section are shaped in both volume and timbre for the final sound output. The VDF (variable digital filter), recently developed by KORG. is used for filtering. The VDF is capable of filtering with unusual clarity and flexibility. The VDA section processes the high-quality sound data of the true 16-bit processing, carried from the sound data section through the VDF section, in a completely digital format to perfectly preserve the sound quality. And the new A-D-B-S-S-R envelope generator allows you the flexibility of shaping the final sound with a greater degree of accuracy and in more detail than ever before.

INDEPENDENT TWO-SYSTEM DIGITAL MULTI-EFFECTS

In the AI Synthesis System, comprehensive control over all elements that make up the final sound is provided-and this is true right down to the effects sections of the M1 and M1R. Two independent stereo effects make up the multi-effect system, a clear departure from exisiting effect-installed synthesizers. As the final step of Al Synthesis, it provides colorful expressive capabilities and adds movement and texture to the tone of the sounds. Any effect can be selected freely from 33 different effects and the parameters can be controlled as desired. Moreover the widest possible range of effects is available. including an exciter and a rotary speaker effect. This effect section, while just a portion of the high-quality sound shaping system of the M1 and M1R, is more comprehensive and professional than many standalone units.

STREAMLINING THE **CREATIVE PROCESS**

Just as their names indicate, the M1 and M1R Music Workstations function as total performance stations for music creation. Both are equipped with a Multi-Mode function which lets you assign a maximum of eight programs to different sections of the keyboard in any fashion you desire and effectively play them as eight separate synthesizers. And the built-in

8 track sequencer makes total music performanceincluding the rhythm section-an exciting realization, and all with the use of just one M1 Music Workstation. The extensive built-in 8-track sequencer is one of the central functions of the M1 Music Workstation and has a maximum memory capacity of 7,700 notes (15,400 events). All editing facilities including a comprehensive punch in/out feature are, of course, provided. Easy operation controls emulate those of a normal multi-track tape recorder. A step write recording feature enables greater convenience in creating rhythm parts and difficult-to-play passages. In fact, the sequencer has all the advanced functions you need for music creation.

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A performance editor function is also included which allows you to change various parameters, such as the EG and cutoff frequency of sound Programs as well as the overall level of each sound Program in a Combination, without the necessity of selecting individual parameters. This lets you make broad, dynamic changes in the sound in realtime, as you paly. With the User Scale function, the M1 makes it possible for you to create original tunings by changing the pitch of the 12 tones of C to B in a 50-cent range around the basic equal temperament scale.

DIRECT EXPRESSIVE CONTROL OR COMPACT REMOTE SOUND SOURCE: THE POWERFUL PERFORMANCE POTENTIAL OF THE M1 AND M1R

The M1 is equipped with a touch- and pressuresensitive keyboard while the M1R is 2-unit rackmount module. Depending on your present (or future) needs and your music system; these two performers are ideal as main instruments for any number of situations. including live concerts and studio recording sessions. Moreover, they can be used as multi-sound sources (for example, as a digital drum kit) for automatic playing from a connected computer. And these two instruments, when used together, double the capacity of either used alone, providing a maximum of sixteen different Programs that can be used out of a selection of up 400 Programs and Combinations. The M1R employs a MIDI Overflow function for playing of up to 32-voice polyphony, a particular benefit when executing thickly textured parts over a sequencer-driven orchestration. Whether recording or playing live, the advanced features of the M1 and M1R give you unprecedented dynamic performance and expressive potential.

SPECIFICATIONS

M1

Sound generation method: Al Synthesis system (full digital sound processing Sound source: 16-voice, 16-oscillator (Single mode 8-voice, 16-oscillator (Double mode B-voice, 16-oscillator (Double mode) Keyboart: 61-key (with initial and after touch) Waveform memory: PCM; 2-Megaword (4-Megabyte) Quantization: 16-bit Filter section: VDF (variable digital amplifier) Amplifiler section: VDA (variable digital amplifier) Effect section: 2-system digital multi-effects rogram memory capacity: 100 Programs nation memory capacity: 100 Combination Sequencer section: 10 songs, 100 patterns, max. 7700 notes; 8 tracks, 8-timbre multi-timbral operation (Dynamic Voice Allocation) Controller inputs: Damper pedal, assignable (ootswitches (pedals) 1/2 Controller inputs: Damper pedal, assignable (ootswitches (pedals) 1/2 Cards slots: PCM data/Program/Con ion/Sequencer data utputs: 1/L, 2/R, 3, 4, stereo headphones MIDI terminals: IN, OUT, THRU isolay: Backlit LCD (40 characters × 2 lines) Dimensions: 1058(W) × 355(D) × 110(H)mm (41-11/16* × 14* × 4-5/16*) Weight: 13.5kg (29 lbs. 11 oz.)

M1R

Sound generation method: AI Synthesis system (full digital sound processing) Sound generation method: Al Synthesis system (tu) Sound source: (Evoice, 16-oscillator (Single mode) 8-voice, 16-oscillator (Double mode) 0uantization: 16-bit Filter section: VDF (variable digital filter) Amplifier section: VDF (variable digital filter) Effect section: 2-bit (variable digital amplifier) Effect section: 2-system digital multi-effects Program memory canactive, 100 Programs Ertect section: 2-system digital multi-effects Program memory capacity: 100 Programs Combination memory capacity: 100 Combinations Sequencer section: 10 songs, 100 patterns, max. 7700 notes; 8 tracks, 8-timbre multi-timbral operation (Dynamic Voice Atlocation) MIDI Overflow Function Controller inputs: Assignable footswitches (pedals) 1/2 Cards slots: PCM data/Program/Combination/Squencer data Outputs: 12, 248, 3,4,54ene backhones Outputs: 1/L, 2/R, 3, 4, stereo headphones MIDI terminals: IN, OUT, THRU Display: Backlit LCD (40 characters × 2 lines) Dimensions: 430(W) × 405(D) × 88(H)mm (16-15/16" × 15-15/16" × 3-7/16") Weight: 5.9kg (13 lbs.)