DSM-1 ... A Marriage of High Technology and Highest Musicality.

The DSM-1 is engineered to take sampling to new heights of accuracy and realism, with the largest memory and fastest sampling rates of any instrument in its class. It's designed to be a flexible and efficient studio production tool. And like all Korg Sampling Products, it's designed to take you beyond mere imitation to a new dimension of sound creation. The DSM-1 combines advanced sampling features, plus a full set of synthesizer functions, to give you access to a whole new world of sounds.



DSM-1&COMPUTER SYSTEM



. CONFIGURATION: 16 voices, 16 VCF modules, 16 VCA modules. WAVE MEMORY: 1 Megaword. SOUND SOURCES: Oscillator waveforms created by sampling or by 128 Harmonic Synthesis • QUANTIZATION: 12-BIT • SAMPLING TIMES & FREQUENCIES: 16 sec × 4 Banks-16 kHz, 11.5 sec × 4 Banks-24kHz, 8 sec × 4 Banks-32kHz, 5.5 sec × 4 Banks - 48 kHz • MAXIMUM NUMBER OF SPLIT POINTS : 16 per Multisound, 64 per Combination (4 Timbres) • NUMBER OF MULTISOUNDS: Up to 32 in internal memory • NUMBER OF COMBINATIONS: 32 . COMBINATION TYPES: Single, Layer 2, Split 2, Layer 4, Split 4, Split 4, Split / Layer, Multi, Manual. NUMBER OF PROGRAMS: 32 • OUTPUTS: 16 Individual Out, Mix Out, Stereo Headphones, MIDI OUT/THRU. HSI Terminal. •INPUTS: Audio In Footswitch, MIDI IN • DISK DRIVE: Takes 3.5 inch, Double-Sided, High Density, Double-Track (2HD Unformatted) Floppy Disks: PERFORMANCE DISKS (for storage of internal memory) WORK DISKS (for storage of Multisounds and Harmonic Data) and DSS-1 DISKS (for loading of DSS-1 data only) . SUPPLIED ACCESSORIES: Floppy disks 4, SYNC/MIDI Cable × 1, AC Power Cord × 1, Rack Mount fittings, Voice Chart, Parameter Sheet • DIMENSIONS (W × H × D): 430 × 134 × 433 mm (Without Rack Mount fittings) • WEIGHT : 11 kg (without Rack Mount fittings)

- PS-1 PEDAL SWITCH
- KH-1000 DYNAMIC STEREO HEADPHONES
- MIDI CABLE (7m/10m/12m)
- SYNC/MIDI CABLE (1.5m/3m/5m/1m+0.5m)
- HSC-020 HSI CABLE (2m)
- MF-2HD MICROFLOPPY DISKS
- . SOUND PROGRAM LIBRARY



. Specifications and features are subject to change without notice for further improvement.

Color reproduction in printed materials may differ from actual product appearance.

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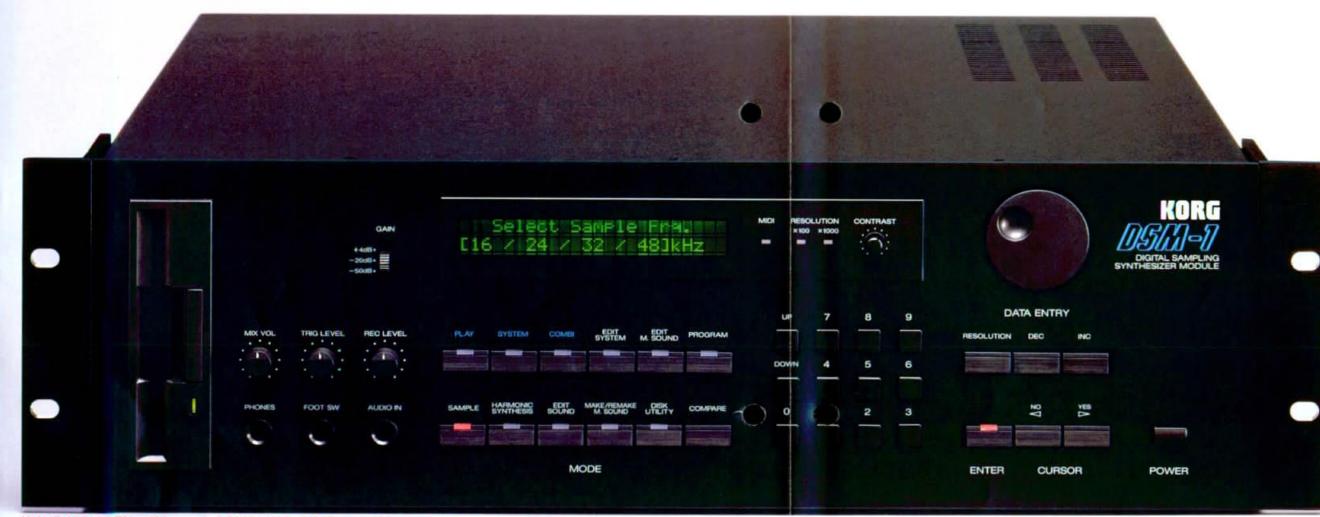
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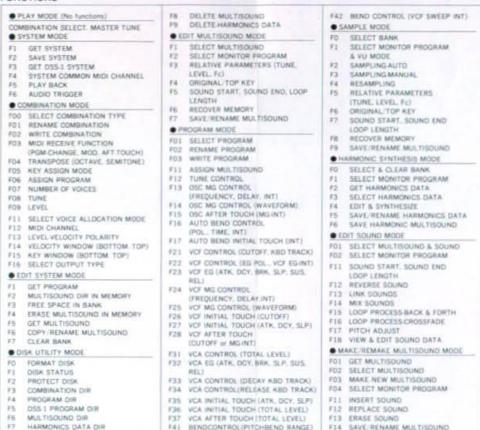
Beyond Sampling, Beyond Synthesis... Into the Heart of the Sound Itself.

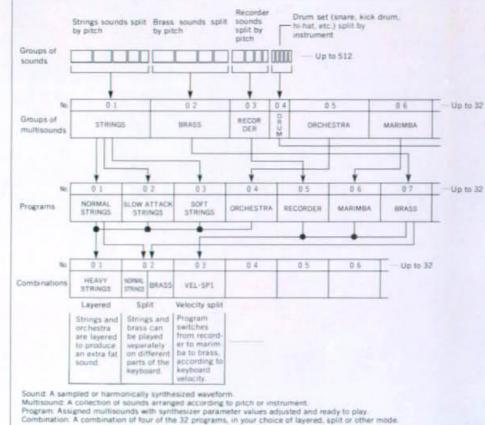


WAVE MEMORY: 1M word. SAMPLING TIME: 64-22sec, SAMPLING RATE: 16-48kHz.



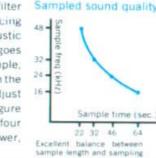
FUNCTIONS





The DSM-1 can record and store more than a minute of samples (64 seconds, to be exact) because it has a full Megaword of internal PCM memory. Now you can sample a grand piano at full fidelity throughout its entire range, with room left over for more waveforms and samples. Store up to 512 samples and waveforms in memory at one time. Configure up to 64 split points over a full 128 note range with such flexibility, you can actually assign a different sample to each key on a standard five octave keyboard.

At the maximum sampling rate of 48 kHz, the DSM-1 digitally records the full audio frequency spectrum: 20 - 20,000 Hz. The new anti-aliasing input filter Sampled sound quality makes full use of this extended treble response, while reducing distortion. So orchestral strings, cymbals and other acoustic instruments can be recorded with brilliance and fidelity that goes beyond even a Compact Disc. Once you've recorded a sample, advanced Korg editing tools let you get inside it to change even the smallest detail. With functions like Mix, Link, Reverse, Pitch Adjust or View & Edit, you can splice, blend and completely reconfigure any sound. To help you build seamless loops, there are four Looping modes; Normal, Back and Forth, Linear and Equal Power, Cross Fade functions



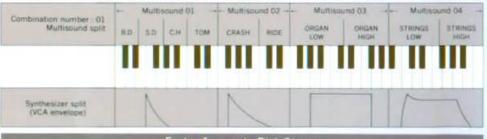
Direct Control over Korg's Digital Waveform Generation System

The DSM-1 lets you build your own sounds form the ground up with Additive Harmonic Synthesis. This technique lets you blend 128 sine wave partials, staring with the fundamental frequency, to create any waveform you want. Harmonically synthesized waveforms give you the added flexibility of synth sounds, or they can be combined with samples for unique "Is it real or synthesized?" tonal shadings. Add a bell like texture to a sampled flute, for example, or use a wave form to thicken up sampled strings and horns.

The DSM-1 uses exclusive LSI technology to maximize your freedom in the studio, with full 16 voice polyphonic multitimbral capability. The 16 voices are fully independent all the way to the 16 individual outputs. You can process and mix each voice separately to get the most out of sampled drums and percussion. Or use the DSM-1 for advanced sequencing applications; the comprehensive polyphonic multitimbral capabilities of the DSM-1 lets you play back completely separate "tracks" on four different MIDI channels at once with Combination Programming. A multiple dynamic allocation function automatically assigns the 16 voices.

The DSM-1 is a true Sampling Synthesizer, with a full set of easy to understand, easy to use synthesizer parameters. Each voice has a VCF, a VCA and a pair of digital Envelope Generators to contour and filter sampled sounds or waveforms. You can store up to 32 programs in

And you can store up to 32 Combinations of any four Programs. Splits, layers, overlaps, four way velocity switches, all are easily programmed. Or you can assign each Program its own MIDI channel for playback from separate keyboards or from a sequencer. Use one of the seven preset Combination modes, or define your own setup with Manual mode.



Faster Access to Disk Storage

With all of its programming power, extended sampling times and higher sampling rates, you'd expect the DSM-1 to take a long time loading new sounds and setups from disk. Not so: the innovative Quand Density 2 Megabyte 3 1/2" disk drive loads the entire 1 Megaword of PCM sample memory, plus all 32 programs and 32 Combinations, less than 35 seconds. The DSM-1 is one of the first musical instruments to use this new high speed, high density disk

Readily Available Disk Libraries

The DSM-1 has its own rapidly growing library of disks, of course. But it can also accesses the hundreds of sounds and thousands of program available in the DSS-1 disk library, one of the largest collections of sampled sounds available.

Powerful features like Velocity Cross Fade, four way Velocity Switch, Variable Loop Tuning, a High Speed Data Port and a Switch/Audio Trigger function. But you get the point: when it comes to creative sampling, to studio efficiency, to on-stage flexibility, there's never been a digital instrument as powerful, and as musical, as the DSM-1.