





Beyond Sampling, Beyond Synthesis

The DSS-1 is a new kind of digital keyboard that blurs the boundaries between sampling and synthesis, between reproduction and improvisation. Any audio input can serve as your starting point. From a microphone, tape, even another

synth. You may also create completely new waveforms by "drawing" them or specifying their harmonic composition. Blend and edit your waveforms to alter their timbre any way you like. Never has synthesis been this fast, easy or versatile. You can select any of 32 sound programs in a flash. No waiting like with conventional sampling systems.

Three Ways to Create Sounds

Conventional sampling units simply record and reproduce sounds. The DSS-1 lets you use sampled sounds as your raw material for the creation of new sounds. Or you can synthesize waveforms from scratch by specifying the levels of 128 harmonics. You can even "draw" a waveform by moving a data entry slider up and down while the display indicates the time axis position in the full-wave cycle. That's just the

Four Sampling/Synth Systems per Disk

In the world of Korg's DSS-1, sixteen waveforms and 32 program make up one "system." Each pocket-size floppy disk holds four of these sampling/synth systems.

It's like having four completely different synthesizers per disk. Contrast this with conventional sampling keyboards which tend to use one whole disk for a single sound.



beginning. Five powerful functions-"truncate," "reverse," "link," "mix," and "view/edit sample data"-give you real creative freedom. Shape the data to fit your musical mold. The "auto-zero cross search" and "crossfade" commands assure a smooth loop for your waveform. You can assign waveform samples to up to 16 sections of the keyboard, enabling more natural response. Operation is simplified by an interactive programming system using a large LCD display.

Sixteen Waveforms and 32 Programs at Your Fingertips

The DSS-1's internal memory holds sixteen waveforms of your creation. There are two "oscillators," called OSC1 and OSC2, each of which can be assigned one of the sixteen waveforms. You can detune these two oscillators, change octaves, set them at regular intervals, and alter their relative volume levels. Then adjust the VCF, VCA and EG parameters to determine the final sound program. Advanced sync effects are possible between OSC1 and OSC2. You can even produce distortion by varying digital-to-analog converter resolution. Up to 32 programs can reside in internal memory. Change sounds instantly by simply selecting a different program number.

The DSS-1 goes so much further than conventional sampling keyboards that it will change the way you think about synthesis and synthesizers.



Into a Bour



NOTE ON	NO.2 VCF MODULATION	PITCH BEND
		SYSTEM EXCLUSIVE
NO.1 OSC MODULATION	CHANNEL PRESSURE (AFTER TOUCH)	
NOTE ON	PROGRAM CHANGE	LOCAL CONTROL ON
NOTE OFF	CHANNEL PRESSURE (AFTER TOUCH)	LOCAL CONTROL OFF
		ACTIVE SENSING
		SYSTEM EXCLUSIVE
NO.2 VCF MODULATION NO.64 SUSTAIN	OMNI MODE OFF OMNI MODE ON	
	 NOTE OFF CONTROL CHANGE NO.1 OSC MODULATION NOTE ON NOTE OFF CONTROL CHANGE NO.1 OSC MODULATION NO.2 VCF MODULATION 	 NOTE OFF CONTROL CHANGE NO.1 OSC MODULATION NOTE ON NOTE OFF CONTROL CHANGE CHANNEL PRESSURE (AFTER TOUCH) PROGRAM CHANGE CHANNEL PRESSURE (AFTER TOUCH) PROGRAM CHANGE CHANNEL PRESSURE (AFTER TOUCH) PITCH BEND ALL NOTES OFF OMNI MODE OFF

DSS-1 SPECIFICATIONS

DCC 4 MIDI DATA

●KEYBOARD: C – C 61 Keys, Velocity, After Touch ●CONTROLLERS: Joystick (X Axis: OSC/VCF FC Bend, +Y Axis: OSC Modulation, -Y Axis: VCF Modulation), Program Up Jack, Sustain Damper Jack ●CONFIGURATION: 8 Voices, 16 Oscillators, (2 Oscillators per Voice), 8 VCF Modules, 8 VCA Modules ●SOUND SOURCES: Waveforms Obtained by Sampling, 128 Harmonic Synthesis, or "Drawing" can be edited, assigned to sections of the keyboard and looped. 12-bit quantization. Sampling Frequencies and Times: 16KHz, 16s, 24KHz, 11s, 32KHz, 8s, 48KHz, 55s (can be used together as one sound source), Number of Keyboard Split Points: Up to 16 ●NUMBER OF SOUND SOURCES: Up to 16 in internal wave RAM, Up to 120 per Disk ●EFFECTS: Digital Delay x2, Equalizer HIGH & LOW (All Programmable) ●NUMBER OF PROGRAMS: 32 in memory, 128 on disk ●BUILT-IN DISK DRIVE: Takes 3.5-inch, Double Sided, Double Density (1MB unformatted) Floppy Disks, 770K PCM Data Storage Capacity per Disk ●SUPPLIED ACCESSORIES: Floppy Disks x4, AC Power Cord ●DIMENSIONS: 1171 (W) × 436 (D) × 123 (H)mm ●WEIGHT: 18.5kg

OPTIONS

PS-1 PEDAL SWITCH	
PS-2 PEDAL SWITCH	
TWC-030 TWIN CABLE (3m)	
DS-1 DAMPER SWITCH	
KH-1000 DYNAMIC STEREO HEADPHONES	
HC-DSS HARD CASE	
MIDI CABLE (7m/10m/12m)	
MF-2DD MICRO FLOPPY DISKS	
SOUND PROGRAM LIBRARY	



KH-1000 DYNAMIC STEREO HEADPHONES





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KORG INC. 15-12, shimotakaido 1-chome, Suginami-ku, Tokyo Japan.

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Idless Universe of Sonic Improvisation

Basic Sound Source Creation Process



Linked

Sawtooth half-wave

Square-wave half-wave

The "splice cross-fade" function can help assure a smooth transition between dissimilar waveforms.

Similarly, the "auto-level adjust" function minimizes unnatural effects at the crossover between different timbres.

• Mix: This mixes two waveforms, producing the same kind of output that you would obtain with an audio mixing console. Of course, you can also mix single full-waves. When mixing you can adjust the volume levels and detune (or tune) the waveforms relative to each other.



G View/Edit Sample Data: Lets you examine and modify one "data word" at a time in "wave RAM" memory where the basic waveforms are stored. Editing is a simple matter of moving a data entry slider.



4. Assignment of waveforms to keyboard split sections.

Different waveforms (produced by steps 2 and 3 above) can be assigned to different portions of the keyboard, then looped and grouped together to make one complete sound source. (The keyboard may be split into a maximum of sixteen sections.)



 This procedure is necessary to produce realistic results with sampled sounds. The more samples you take (at different pitches), the more natural the effect will be.

 Single full-waves created by harmonic synthesis or drawing are looped and assigned automatically to the entire keyboard. Therefore this procedure is not required unless you edit the waveforms. •The auto-cross search function can be used to assure smooth

crossover for the loop.

Looping may also be assisted by the "cross-fade" and "back-andforth" functions. (Cross-fade helps avoid unnatural effects while backand-forth is used to produce special effects.)

Cross-Fade used to loop the waveform below:



Back-and-Forth used to loop waveform below:



Pitch, timbre and volume can be adjusted for each keyboard split section, thereby avoiding unnatural results regardless of which notes you play.



New Parameters Mold the Sound to Fit Your Image



OSC

16 SYNC MODE, D/A RESOLUTION

The sync mode forces OSC2 to follow OSC1; very effective for metallic and reed sounds. Be lowering D/A (digital-to-analog converter) resolution from 12 bits to 10, 8, 7, or 6, you can cause upper harmonics to be added to the sound.



VCA

37 VCA DEC KBDTRACK

Reduces decay time as you play higher notes on the keyboard. Effective for imitating piano sounds.

VELOCITY SENS

41 AUTO BEND INT

Controls the amount of pitch bend that is dependent upon keyboard velocity. Handy for chopper bass and related effects.

43 VCF EG (ATK, DEC, SLP)

Controls the amount of timbre change that is dependent upon keyboard velocity. You get bright sound at the beginning when you play hard. But when you play soft the sound gradually gets brighter. The decay and slope parameters allow you to obtain more rapid tone color changes on the attack and after the break-point when you play harder, much like on a piano.

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Determines the amount of volume change that is dependent upon keyboard velocity. This allows you to obtain a more rapid attack when you play harder and a slower attack when you play softer. Decay and slope times also decrease when you play harder.

46 VELOCITY SWITCH

This allows you to reverse the mix levels of the two oscillators (as set by parameter 14) depending on keyboard velocity. You can have strings when you play softly and piano when you play loud. You can also determine the velocity value at which the switch will occur.

KEY ASSIGN

64 UNISON DETUNE & VOICES

Especially valuable for bass and reed synthesizer effects, this lets you determine the number of voices in the unison mode and adjust detuning to obtain and fatter sound.

DDL-2 CONTROL

91 INPUT SIGNAL SELECT

There are two built-in digital delays. You can either apply the source signal to DDL-2 directly or use the output of DDL-1 for input to DDL-2.



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SEND DATA	NOTE ON	NO.2 VCF MODULATION	PITCH BEND
	 NOTE OFF CONTROL CHANGE 	NO.64 SUSTAIN FOOT SWITCH PROGRAM CHANGE	SYSTEM EXCLUSIVE
	NO.1 OSC MODULATION	CHANNEL PRESSURE (AFTER TOUCH)	
RECEIVE DATA	NOTE ON	PROGRAM CHANGE	LOCAL CONTROL ON
	NOTE OFF	CHANNEL PRESSURE (AFTER TOUCH)	LOCAL CONTROL OFF
	CONTROL CHANGE	PITCH BEND	ACTIVE SENSING
	NO. 1 OSC MODULATION	ALL NOTES OFF	SYSTEM EXCLUSIVE
	NO.2 VCF MODULATION	OMNI MODE OFF	
	NO.64 SUSTAIN	OMNI MODE ON	

DSS-1 SPECIFICATIONS

•KEYB0ARD: C – C 61 Keys, Velocity, After Touch ●CONTROLLERS: Joystick (X Axis: OSC/VCF FC Bend, +Y Axis: OSC Modulation, -Y Axis: VCF Modulation), Program Up Jack, Sustain Damper Jack ●CONFIGURATION: 8 Voices, 16 Oscillators, (2 Oscillators per Voice), 8 VCF Modules, 8 VCA Modules ●SOUND SOURCES: Waveforms Obtained by Sampling, 128 Harmonic Synthesis, or "Drawing" can be edited, assigned to sections of the keyboard and looped. 12-bit quantization. Sampling Frequencies and Times: 16KHz, 16s, 24KHz, 11s, 32KHz, 8s, 48KHz, 5s (can be used together as one sound source), Number of Keyboard Split Points: Up to 16 ●NUMBER OF SOUND SOURCES: Up to 16 in internal wave RAM, Up to 120 per Disk ●EFFECTS: Digital Delay x2, Equalizer HIGH & LOW (All Programmable) ●NUMBER OF PROGRAMS: 32 in memory, 128 on disk ●BUILT-IN DISK DRIVE: Takes 35-inch, Double Sided, Double Density (1MB unformatted) Floppy Disks, 770K PCM Data Storage Capacity per Disk ●SUPPLIED ACCESSORIES: Floppy Disks x4, AC Power Cord ●DIMENSIONS: 1171 (W) × 436 (D) × 123 (H)mm ●WEIGHT: 18.5kg

OPTIONS

UT TIONO	_
PS-1 PEDAL SWITCH	
PS-2 PEDAL SWITCH	
TWC-030 TWIN CABLE (3m)	
DS-1 DAMPER SWITCH	
KH-1000 DYNAMIC STEREO HEADPHONES	
HC-DSS HARD CASE	
MIDI CABLE (7m/10m/12m)	
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KH-1000 DYNAMIC STEREO HEADPHONES



HC-DSS HARD CASE

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Sawtooth half-wave

Souare-wave half-wave

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view/edit sample function you can process the end of

the waveform to assure a loop with smooth crossover.



When looped

Back-and-Forth used to loop waveform below:

gradually blended in toward the end of the

loop

WAAA

Loop

Loop

Loop

Loop

Loop

Results in this



Pitch, timbre and volume can be adjusted for each keyboard split section, thereby avoiding unnatural results regardless of which notes you play.

SEND DATA	 NOTE ON NOTE OFF CONTROL CHANGE NO.1 OSC MODULATION 	NO.2 VCF MODULATION NO.64 SUSTAIN FOOT SWITCH PROGRAM CHANGE CHANNEL PRESSURE (AFTER TOUCH)	 PITCH BEND SYSTEM EXCLUSIVE
RECEIVE DATA	 NOTE ON NOTE OFF CONTROL CHANGE NO. 1 OSC MODULATION NO. 2 VCF MODULATION NO.64 SUSTAIN 	 PROGRAM CHANGE CHANNEL PRESSURE (AFTER TOUCH) PITCH BEND ALL NOTES OFF OMNI MODE OFF OMNI MODE ON 	 LOCAL CONTROL ON LOCAL CONTROL OFF ACTIVE SENSING SYSTEM EXCLUSIVE

DSS-1 SPECIFICATIONS

DCC 1 MIDI DATA

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