

# ROLAND KEYBOARDS

VOL.10



LINEAR DIGITAL SYNTHESIZERS  
LINEAR SYNTHESIZER MODULES  
MULTI-TIMBRAL LINEAR DIGITAL SYNTHESIZERS  
MULTI-TIMBRAL MIDI SOUND MODULES  
DIGITAL SAMPLER MODULES  
DIGITAL SAMPLING KEYBOARD  
PCM SOUND MODULE  
MIDI KEYBOARD CONTROLLER  
DIGITAL PIANOS  
DIGITAL PIANO MODULE  
POLYPHONIC SYNTHESIZER MODULES  
MIDI SIGNAL PROCESSING UNITS  
MIDI PERIPHERALS  
LINE MIXERS  
KEYBOARD AMPLIFIERS & SPEAKERS  
ACCESSORIES



**Experience the  
Expressive Power  
of LA Synthesis**



## ***Roland's D-Series Synthesizers Offer Musicians Greater Creative Possibilities***

*LA Synthesis is a sophisticated, versatile synthesis technology which gained wide recognition through the introduction of Roland's acclaimed D-50 Linear Digital Synthesizer. LA Synthesis makes use of Linear Arithmetic, advanced computing techniques used for solving complex scientific mathematical problems, to produce any type of sound from fat, warm analog synth sounds to complex, realistic digital sounds. Roland researched and developed an ultra-sophisticated proprietary LSI (Large-Scale Integrated) chip that utilizes linear arithmetic to digitally synthesize sounds. Using a combination of 16-bit PCM wave data and digitally synthesized waveforms, all the components making up these sounds—such as attack, sustain, ambience, and harmonics—are individually created, then combined. Changes in overtones, phase and pitch of each sound are controlled by the built-in TVF, TVA, and LFO functions, making it possible to create stunningly realistic sounds or radically enhanced sounds—all with the most subtle nuances of expression. If you are familiar with analog synthesis, you don't need to learn new programming techniques to digitally create sounds. Even if you have never programmed a sound into a synthesizer before, you'll find creating sounds on an LA Synthesizer remarkably easy. And for musicians who don't plan on programming any sounds, Roland's D-Series Synths come with some of the most incredible pre-set sounds you'll ever hear.*

*Combining the superior sound quality and programming versatility of LA Synthesis with fully digital processing, complete MIDI compatibility, built-in digital effects and multi-timbral capabilities, Roland's D-Series synthesizers present musicians with exceptional potential for musical expression.*

# LINEAR DIGITAL SYNTHESIZER



## Sophisticated LA Synthesizer Features Innovative New Design

### D-50

#### LINEAR DIGITAL SYNTHESIZER

LA Synthesis is highly sophisticated component synthesis. To create sounds on the D-50, the procedure is very simple—build sounds from the ground up by combining different types of sound sources together. This begins with individual elements of sound called Partials which are either a digitally synthesized waveform or a PCM waveform. Two Partials can be combined to create a Tone, and two Tones can be combined to create a Patch. Digitally controlled ring modulation may be added to create Tones with complex harmonic relationships.

#### Full 16-Voice Polyphony

In whole mode, the D-50 has 16-voice polyphony, while in split, dual, and separate modes it functions as two 8-voice synths (one synth per tone). Each tone can receive on a separate MIDI channel which makes the D-50 bi-timbral and allows it to function as two MIDI sound modules. An excellent mother keyboard, the D-50 features 61 velocity and pressure sensitive keys, as well as programmable transmit channel for each patch.

#### Responsive Tone Parameters

Each of the thirty-two Synth Partials contains all the components usually found in the hardware of an analog synthesizer. Simulated by digital software, these include a Wave Generator (to create a sawtooth or square waveform), a Time Variant Filter, a Time Variant Amplifier, three five-stage Envelope Generators and three digital LFOs. Even though the D-50's sound is

a digital signal, programming the Synth Partial is very similar to programming on an analog synthesizer since these components react in the same way as VCOs, VCFs, and VCAs on analog synthesizers.

#### Built-In Digital Effects

The signal is routed through the digital effects circuitry before it reaches the output. The first effect is the digital Parametric Equalizer which is used to contour the tone's equalization curve before it passes into the digital Chorus section. Two chorus circuits, all available simultaneously, can be configured in any of 8 modifiable presets such as panning chorus, tremolo, flanging and much more. Finally, the signal passes through the digital Reverb. This can also function as a digital delay and offers various room and hall sizes, gated (non-linear) reverb, reverse, and stereo panning effects that can be routed to either or both of the stereo outputs. All of the D-50's effects are processed entirely in the digital realm and are completely noise free.

#### SPECIFICATIONS

- Keyboard: 61 Keys (C2 to C7, Velocity and Pressure-Sensitive)
- Synthesis Method: LA Synthesis (32 Partials, 7 Structures)
- Built-in Digital Effects: Equalizer (2-Band Parametric Equalizer x 2), Chorus (Stereo Chorus x 2), Reverb
- Key Modes: Whole, Split, Dual, Separate
- Memory: Internal Memory (64 Patches), Memory Card (64 Patches)
- Buttons: Patch Group Select (Internal, Card), Patch Bank Select (1 to 8), Patch Number Select (1 to 8), Tune/Function, MIDI, Stick Mode (Partial Balance Upper, Partial Balance Lower, Edit Value, Edit Local), Edit Menu Select (Key Mode, Split Point, Balance: Lower Tone, Upper Tone, Tone Tune, Patch Edit), +/-/Edit, Recall, Copy, Undo, Exit, Data Transfer, Write, Increment, Decrement, Numerical Keys (0 to 9, Shift, Enter), Portamento, Chase, Key Transpose
- Controls: Bender/Modulation Lever, Joy Stick, Volume, Aftertouch Sensitivity
- Display: Illuminated,

80-Character LCD (40 characters in each of 2 lines)

- Rear Panel: Jacks (Upper Output, Lower Output, Headphones, Expression Pedal, External Control Input, Hold Pedal, Pedal Switch), MIDI Connectors (In, Out, Thru), Power Switch
- Dimensions: 974(W) x 332(D) x 94(H)mm (38-3/8" x 13-1/16" x 3-11/16")
- Weight: Approx. 11.4kg (25lb, 2oz.)
- Accessories: IC Card (ROM), Edit Map
- Options: PG-1000 Programmer, IC Card (RAM), KS-8 Stand, AB-D50 Carrying Case



#### PG-1000 PROGRAMMER

All of the D-50's functions and parameters can be programmed from its front panel, or externally using the optional PG-1000 Programmer which features 56 editing knobs that make it easy to edit multiple partials simultaneously.

- Terminals: MIDI In/Out/Thru, Parameter In, AC Adaptor
- Dimensions: 318(W) x 268(D) x 53(H)mm (12-1/2" x 10-9/16" x 2-1/16")
- Weight: 1.6kg (3lb, 9oz.)

#### OPTION

AB-D50 Carrying Case



# LINEAR SYNTHESIZER MODULE



## D-50 Flexibility in a Convenient, Rack-Mountable Module

### D-550

#### LINEAR SYNTHESIZER MODULE

The D-550 is a compact linear synthesizer module which combines the superb performance of the D-50 linear synthesizer with the convenience of a rack mountable module. Like the D-50, the D-550 utilizes Roland's LA Synthesis method with 32 partials and seven structures for sound synthesis. The D-550 is designed to perform as a MIDI sound module and fits conveniently into a standard 19" rack, requiring only 2U of rack space. Upper and lower tones can be

controlled independently, and incoming MIDI messages, Bender, and Aftertouch can all be controlled separately. A single patch can store all the relevant data for split point settings, effect mode, reverb mode, and performance controllers, and up to 64 Patches can be stored in the D-550's internal memory or on an optional memory card.

The D-550 features three built-in digital effects including Reverb, Chorus, and EQ, and all effects settings, in addition to Reverb On/Off, Chase Play and Portamento On/Off settings, can be stored in every Patch. Tone balance and Partial balance can be controlled as desired using the cursor and a value key while monitoring the display, and virtually every edit function

can be activated from the D-550 alone. The optional PG-1000 programmer allows you to create and modify sounds with even greater precision and speed.

#### SPECIFICATIONS

- Synthesis Method: LA Synthesis (32 Partial, 7 Structures)
- Maximum Voice Polyphonic: 16-Voices (Whole Mode), 8+8-Voices (Split/Dual Mode)
- Built-in Digital Effects: Equalizer (2 Band Parametric EQ x 2), Chorus (Stereo Chorus x 2), Reverb
- Memory Capacity: Internal Memory (64 Patches, 128 Tones), Memory Card (64 Patches, 128 Tones)
- Display: LCD (40 Characters x 2 lines, Back-lit)
- Dimensions: 480(W) x 410(D) x 90(H)mm (18-7/8" x 16-1/8" x 3-7/16")
- 19" rack-mountable (EIA-2U)
- Weight: 6.5kg (14 lb. 6 oz.)

## OPTIONS



### PN-D50-01/02/03/04 SOUND LIBRARY

A library of exciting digital sounds is now available on compact ROM cards which each offer 64 impressive sounds and 16 new reverb programs. PN-D50-01 features Brass, Strings and Organ sounds, while PN-D50-02 highlights Piano and Percussion sounds.

PN-D50-03/04 are the newest additions to the D-50/550 Sound Library, offering you a variety of additional sounds ranging from traditional acoustic sounds to specialized synth sounds and sound effects.

# MULTI-TIMBRAL LINEAR DIGITAL SYNTHESIZER



## Multi-Timbral Capabilities with Built-in Multi-Track Sequencing

### D-20

#### MULTI-TIMBRAL LINEAR SYNTHESIZER MULTI-TRACK SEQUENCER

The D-20 is a 32-voice polyphonic synthesizer which employs Roland's proprietary LA synthesis technology to give you the superb sound quality and programming ease LA synthesis is famous for. Providing the capabilities of a complete music production system, the D-20 features multi-timbral capability, a 61 key, velocity-sensitive keyboard, built-in multi-track sequencing, a built-in disk drive for data storage, and digital reverb.

Two modes, "performance" and "multi-timbral", offer users incredible flexibility. "Performance" mode is ideal for live and real-time performance and takes advantage

of a variety of keyboard configurations—split, whole, or dual. "Multi-timbral" mode allows you to play up to eight independent synthesizer parts plus a rhythm part simultaneously from either the built-in sequencer or an external sequencer.

Any eight of 128 presets and 64 user programmable tones can be assigned to its own MIDI channel and allocated to the eight independent synth parts. In addition, the built-in rhythm composer lets you create a separate rhythm part using any of 63 preset drum and percussion sounds as well as 64 user programmable sounds. The built-in nine-track sequencer has a capacity of approximately 16,000 notes, and built-in digital reverb features eight types of reverb including Room, Hall, Plate, and Delay to add depth and ambience to all sounds.

#### SPECIFICATIONS

- Keyboard: 61 Keys (C2 to C7), Velocity-Sensitive
- Sound Source: LA Digital Synthesis (32 Partials, 13 Structures)
- Built-in Effects: Digital Reverb, 8 Types
- Maximum Voice Polyphonic: 32
- Operational Modes: Performance, Multi-Timbral
- Memory Capacity •Internal: 128 Programmable Patches, 128 Programmable Timbres, 128 Preset Tones, 64 Programmable Tones, 63 Preset Rhythm Sounds, 32 Preset Rhythm Patterns, 32 Programmable Rhythm Patterns, 1 Rhythm Track, 1 Rhythm Set-up
- External Memory Card: 128 Patches, 128 Timbres, 64 Tones, 32 Rhythm Patterns, 1 Rhythm Track, 1 Rhythm Set-up
- Sequencer: 9 Tracks (8 Parts+1 Rhythm Part), Tracks 1—8 (approx. 16,000 notes, 500 measures)
- Sequencer Disk System: 3.5" Floppy Disk Drive •Capacity: Approx. 35,000 Notes (song data)
- Controls: Bender/Modulation Lever, Volume, Value
- Rear Panel: L (Mono), R Output Jacks, Headphone Jack, Hold Pedal Jack, Start/Stop Jack, Punch-In/Out Jack, MIDI (In/Out/Thru)
- Display: 16 Characters x 2 lines, Back-lit LCD
- Dimensions: 1,014(W) x 301(D) x 106(H)mm (39-15/16" x 11-7/8" x 4-3/16")
- Weight: 10.1kg (22 lb. 4 oz.)



## Full Function Multi-Timbral Keyboard

### D-10

#### MULTI-TIMBRAL LINEAR SYNTHESIZER

The D-10 offers the same sound quality and features as the D-20 with the exception of the D-20's built-in sequencer. Ideal for performance and sequencing environments, the D-10's eight synth parts and one rhythm part can each be assigned to its own MIDI channel allowing you to use the D-10 as a MIDI sound source for an external MIDI instrument or sequencer and play a live part from the D-10's keyboard simultaneously. Any of 128 preset and 64 programmable sounds can be assigned independently to

each part, and the separate rhythm section provides 63 preset drum and percussion sounds which can be used in combination with the 64 programmable sounds.

#### SPECIFICATIONS

- Keyboard: 61 Keys (C2 to C7), Velocity-Sensitive
- Sound Source: LA Digital Synthesis (32 Partials, 13 Structures)
- Built-in Effects: Digital Reverb, 8 Types
- Maximum Number of Simultaneously Produced Voices: 32
- Operational Modes: Performance, Multi-Timbral
- Memory Capacity •Internal: 128 Programmable Patches, 128 Programmable Timbres, 128 Preset Tones, 64 Programmable Tones, 63 Preset Rhythm Sounds, 32 Preset Rhythm Patterns, 32 Programmable Rhythm Patterns, 1 Rhythm Track, 1 Rhythm Set-up
- External Memory Card: 128 Patches, 128 Timbres, 64 Tones, 32 Rhythm Patterns, 1 Rhythm Track, 1 Rhythm Set-up
- Controls: Bender/Modulation

- Lever, Volume, Value
- Rear Panel: L (Mono), R Output Jacks, Headphone Jack, Hold Pedal Jack, Start/Stop Jack, MIDI (In/Out/Thru)
- Display: 16 Characters x 2 lines, Back-lit LCD
- Dimensions: 974(W) x 301(D) x 98(H)mm (38-3/8" x 11-7/8" x 3-7/8")
- Weight: 8.8kg (19 lb. 7 oz.)



### PG-10 PROGRAMMER

Designed to simplify programming of the D-10 and D-20 synthesizers and the D-110 sound module, the PG-10 programmer features eight sliders and a large two-line, 40-character LCD display that makes editing quicker and easier. The PG-10 also provides helpful functions such as Partial Copy and Previous Value for creating new sounds.

- Dimensions: 278(W) x 142(D) x 46(H)mm (10-15/16" x 5-9/16" x 1-13/16")
- Weight: 800g (1 lb. 12 oz.)

#### OPTION

SHC-1 Carrying Case



# MULTI-TIMBRAL MIDI SOUND MODULE



## LA Synthesis in a Multi-Timbral, Rack-Mount Module

### D-110

#### MULTI-TIMBRAL SOUND MODULE

The D-110 is a compact, rack-mountable module with the capabilities of eight separate synthesizers and a rhythm sound module. A powerful addition to any MIDI set-up, the D-110 responds excellently to all of the dynamic performance features of your MIDI controller, and its multi-timbral capability makes it ideal for use with sequencers such as Roland's MC-Series MicroComposers. Featuring up to 32-voice

polyphony and built-in digital reverb, the D-110 provides 128 presets and 64 user-definable tones that can be assigned to any of eight separate parts, each with its own MIDI channel. The separate rhythm section lets you build a rhythm part using any of the 63 preset drum and percussion sounds and 64 user programmable sounds. Along with stereo/mono outputs, six multi-outputs are provided and any of the eight synth parts, as well as individual instruments from the rhythm section, can be assigned to any output. The D-110 also features built-in digital reverb with a choice of eight reverb types including Room, Hall, Plate and Delay.

#### SPECIFICATIONS

- Sound Source: LA Digital Synthesis (32 Partials, 13 Structures)
- Built-in Effects: Digital Reverb, 8 Types
- Maximum Number of Simultaneously Produced Voices: 32
- Memory Capacity: Internal: 64 Programmable Patches, 128 Programmable Timbres, 128 Preset Tones, 63 Preset Rhythm Sounds, 1 Rhythm Set-up
- External Memory Card: 64 Patches, 128 Timbres, 64 Tones (M-256D), 32 Tones (M-128D), 1 Rhythm Set-up
- Rear Panel: L (Mono), R Output Jacks, Multi-Outputs 1 - 6, MIDI (In/Out/Thru)
- Display: 16 Characters x 2 Lines, Back-lit LCD
- Dimensions: 482(W) x 286(D) x 44(H)mm (19" x 11-1/4" x 1-3/4"), 19" rack-mountable (EIA-1U)
- Weight: 3.7kg (8 lb. 2 oz.)



## Add Multi-Timbral LA Synthesis to Any MIDI Set-up

### MT-32

#### MULTI-TIMBRAL SOUND MODULE

For MIDI musicians who want to take advantage of the great sound LA synthesis offers, but who don't require any programming capability, the MT-32 offers

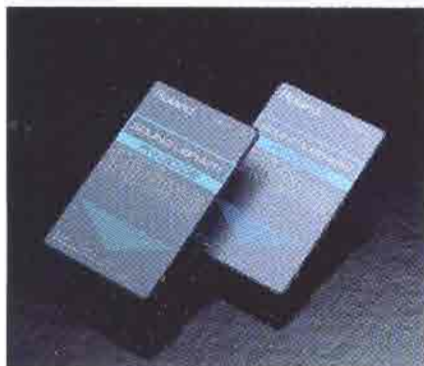
features and power similar to the D-110. The MT-32 comes with 128 preset synthesizer tones and 30 preset rhythm sounds, all with the sound quality Roland's D-series instruments are famous for. Its multi-timbral functions allow each of the eight separate synthesizer parts and the single rhythm part to be played independently through nine MIDI channels. Built-in digital reverb lets

you select between ten separate reverb modes to add depth and ambience to all sounds. Stereo/mono outputs are also provided.

#### SPECIFICATIONS

- Sound Sources: LA Digital Synthesis PCM Wave Memory
- Maximum Voice Polyphonic: 32 Voices
- Parts Structure: 8 Synthesizer Parts+1 Rhythm Part
- Preset Sounds: 128 Synthesizer Sounds+30 Rhythm Sounds
- Switches: PART 1, 2, 3, 4, 5, Rhythm, Sound Group, Sound, Master Volume, Volume, Reverb (Master Volume+Master), Tune (Master Volume+Sound Group)
- Control: Select/Volume
- Display: 20-digit Back-lit LCD
- Jacks: Stereo Out L (Mono)/R, Headphones, MIDI (In/Out/Thru), 9V DC In
- Power: 9V DC Adaptor (ACB-Series)
- Current Draw: 650mA
- Dimensions: 305(W) x 220(D) x 45(H)mm (12" x 8-11/16" x 1-3/4")
- Weight: 1.5kg (3 lb. 5 oz.)
- Accessories: AC Adaptor (ACB-Series), MIDI Card, Connection Cable x 2

## OPTIONS



### PN-D10-01/02 SOUND LIBRARY

New PN-D10 Series Sound Library ROM cards are now available which offer even more sound choices for D-10, D-20, or D-110 Synthesizer users. Each ROM card provides you with 64 additional Tones, 128 Timbres, and 128 Performance Patches.

PN-D10-01 consists of a collection of synthesizer and instrument sounds, while PN-D10-02 includes an assortment of 48 new rhythm sounds and 16 "user-friendly" bass sounds which, like all D-Series sounds, can be used as they are or modified to suit your particular tastes.



M-256E MEMORY CARD M-256D MEMORY CARD M-128D MEMORY CARD



# Sampling Technology for the Most Demanding Musicians





## **Roland's S-series Samplers—Combining the Latest Technology with Versatility**

Digital sampling has given musicians the ability to take almost any existing sound and use it in a musical context. Roland's S-series Digital Samplers offer musicians a variety of samplers to choose from, all with professional-quality digital sampling capabilities. In addition to sixteen-bit digital-to-analog conversion that achieves excellent sound resolution, digital filtering, and advanced editing functions, Roland's S-series samplers employ the newly developed DI (Differential Interpolation) method that gives you high-quality, realistic samples and duplicates original sounds with remarkable accuracy. Designed with Roland's "open system" philosophy, the S-series samplers can be updated to perform new functions by simply inserting a new operating system disk or optional software package. SYS-series sequencer software adds powerful MIDI sequencing capability to S-series samplers and provides advanced sequence editing functions. Optional hardware accessories which give even more scope and flexibility to S-series samplers include a CRT, the DT-100 Digitizer Tablet, RC-100 Remote Controller, and MU-1 Mouse.

Offering you high quality sampling with superior sound, expandability, and full MIDI compatibility, Roland's S-series samplers provide an ideal way to make the most of your musical imagination.

# DIGITAL SAMPLER MODULE



## A 16-Voice Professional Sampler Module

### S-550

#### DIGITAL SAMPLER MODULE

The S-550 Digital Sampler is Roland's top-of-the-line sampler. The S-550 is rack mountable and contains totally integrated hardware that is supported by advanced system operation software and optional software packages designed to satisfy the demands of the most sophisticated professionals.

#### Extensive Memory Capacity

The S-550 has a 1.5 Megabyte memory capacity which provides a total of 57.6 seconds of sampling time at 15kHz or 28.8 seconds of sampling at 30kHz. The S-550 stores up to 64 Tones and 32 Patches, and provides flexible and advanced sampling capabilities.

#### Polyphonic Multi-Timbral Function and Eight Individual Outputs

The S-550 can respond to eight separate MIDI channels simultaneously which enables eight patches with full keyboard access to be played at once. Eight polyphonic outputs are featured as well. The S-550 offers sixteen-voice polyphony and when connected to a keyboard controller, each key can play up to two tones at once, and 108 split points can be assigned to the keyboard.

#### Innovative Editing Functions

Each tone has a newly developed digital Time Variant Filter (TVF) that controls sound

or waveform data in real time. Each TVF and TVA incorporates a dedicated eight-point envelope generator and level curve to take maximum advantage of the outstanding dynamic responsiveness of the S-550.

The S-550 is also equipped with Pre-Trigger, Previous Sampling, and Automatic Loop functions. An additional function, Automatic Waveform Smoothing, processes and loops samples smoothly and makes the process of setting loops for complex waveforms much easier.

#### Operational Ease

All editing functions and applications such as manual input of waveforms and envelopes can be performed with a mouse controller and viewed on a CRT monitor. Both devices attach directly to the S-550 and give you complete control of the sound creation process.

The mouse can also be connected to the optional RC-100 Remote Controller which allows the S-550 to be operated conveniently from across the room.

#### MIDI Data Monitoring

A new feature on the S-550 allows you to monitor incoming MIDI messages as hexadecimal data which is displayed on the CRT. Also, unwanted MIDI data can be filtered out by the Real Time Message Switch.

MIDI data can be displayed on the CRT in one of three different ways. One display shows each sound that is produced, another shows the split points, and the third shows the note information for each MIDI channel.

#### Open Design Enables Expansion

The S-550 has been designed as a "music computer" which can be upgraded through optional software. Upgrade options have included an improved version of the system operation disk, and a software package that transforms the S-550 into a sequencer (SYS-553).

#### SPECIFICATIONS

- Maximum Number of Simultaneously Produced Notes: 16
- Maximum Number of Stored Tones: 64 (32 x 2 Groups)
- Number of Patches: 32 (16 x 2 Groups)
- Sampling Rate: 15kHz, 30kHz
- Maximum Sampling Time: 14.4 Seconds x 4 Banks (at 15kHz rate), 7.2 Seconds x 4 Banks (at 30kHz rate)
- Signal Processing: Expanded 16-bit
- RAM Capacity: 1.5MByte
- Wave Data: 1,024k Words
- Output Filter: Digital
- Envelope Generator: 8 Step (both filters and amplifiers)
- Sampling Function: Manual, Automatic, Previous
- Loop Function: Manual (FWD, ALT, 1-shot, Reverse) Automatic
- Wave Editing: Truncate, Mix, Combine, Digital Filter Smoothing, Wave Draw, Tone Copy, Delete
- Tone Parameters: LFO, TVF, TVA
- Patch Parameters: Key Modes (Normal, Unison), Velocity Mix, Velocity Switch, Velocity Cross Fade), Bend Range, Modulation Depth, Attentouch Sensing, Attentouch Assignment, Octave Shift, Output Level
- Multiple Patch Play: 8 MIDI channels can be set in relation to each patch
- Number of Split Points: 108
- Number of Accepted Notes: 12—120 (109 keys)
- Display: FIP 16 Characters x 1 line, A CRT Display (200 lines, RGB) can be connected
- External Control: Mouse (provided), RC-100 (optional)
- External Data Storage: 35" 2DD Micro Floppy Disk
- Jacks: < Front Panel > Input, External Control, Headphones, < Rear Panel > Individual Outputs x 8, Mix Out, Recording Start, Display Output (Digital RGB, Monochrome) MIDI (In, Out, Thru)
- Dimensions: 482(W)x400(D)x88(H)mm (19" x 15.3/4" x 3.7/16"), 19" rack-mountable (EIA-2U)
- Weight: 7.7kg (17 lb.)



#### HD5-IF HARD DISK INTERFACE

The HD5-IF is a hard disk interface used to connect the S-550 Digital Sampler Module with the compatible hard disk unit to increase storage capacity significantly. Stored data can be recalled instantly, saving the time spent loading separate disks.



#### CD-5 CD-ROM SYSTEM FOR THE S-550

CD-ROM is a read-only memory that uses a compact disk as its storage medium. Because it can store the equivalent of 512 3.5-inch disks, it gives you access to sampler sound data requiring large memory capacity. The CD-5 CD-ROM System comprises a CD-ROM unit and system software. Please note that the HD5-IF hard disk interface is required as well.

# DIGITAL SAMPLER MODULE



## A High-Quality, Affordable Multi-Sampler

### **S-330** DIGITAL SAMPLER MODULE

The S-330 is a compact, rack-mountable (1U) sixteen-voice digital sampler module with sophisticated programming and performance capabilities that make it ideal for the needs of almost any musician. With advanced features such as waveform smoothing and "open system" design, the S-330 offers flexible, professional level performance. The S-330 features a 16-bit digital-to-analog converter and 30kHz sampling rate, and since all signal processing (including filtering conversion) is conducted in the digital domain, the sound quality of samples is always exceptional. The TVFs (Time Variant Filters) modify the envelope, velocity and LFO modulation of each sampled tone digitally, and offer performance characteristics far superior to analog filters found on most samplers. In addition, each TVF and TVA (Time Variant Amplifier) utilizes a dedicated eight-stage envelope generator and level curve which permit you to create interesting effects through touch dynamics.

### OPTIONS



#### **MU-1** MOUSE

The MU-1 is an optional mouse which connects directly to the S-330 or S-550 to greatly simplify editing and manual input of sample waveform parameters when used with a CRT.

#### **Large Memory Capacity**

Featuring a memory capacity of 750KBytes, the S-330 can store up to thirty-two different tones and sixteen different patches, and each patch can store data for split points and effects modes which can be recalled instantly. Each of the two memory banks permit a maximum of 14.4 seconds of sampling at 15kHz, or 7.2 seconds at 30kHz, giving you a total of 28.8 or 14.4 seconds of sampling respectively. **Eight MIDI Channels and Eight Separate Outputs**

Eight separate MIDI channels may be received at once and 109 MIDI note numbers (12—120) can be received and played. The S-330's multi-timbral capability permits you to play polyphonically on all eight MIDI channels, and eight separate outputs give you total control of volume and effects for each voice.

#### **Options That Enable Even Greater Operational Ease**

A variety of options are available for the S-330 including the RC-100 remote controller which enables operation from a convenient remote location, and an optional CRT display that simplifies sophisticated editing. You can use the CRT to monitor

MIDI information, enabling instant confirmation of MIDI messages, and display note information for each voice group through the three different display modes—standard, split display, and eight-key display. An optional mouse (MU-1) allows envelope and sampled sound waveform information to be input manually, and lets you perform editing functions directly on the CRT display. The S-330 is also fully compatible with the S-550 Sound Library, and S-50 data can be used when converted to the S-330 format.

#### **SPECIFICATIONS**

- Memory •Wave Memory: 750k; 32 Tone/Tone Parameters, 16 Patch/Patch Parameters, Function Parameters, MIDI Function Parameters
- Front Panel •Display/Indicators: 16-digit 2-line LCD, MIDI Indicator
- Switches: Power, Mode, Menu, Page, Sub-Menu, Command, Execute, DEC/INC (No/Yes), Cursor x 4
- Controls: REC Level/Volume
- Jacks: Input, Headphones
- Connector: Auxiliary Control
- Rear Panel •Jacks: Individual Output RCA Pin Jack x 8, Individual Output Phone Jack
- Connectors: Color Monitor RGB, Monochrome Monitor, MIDI (In/Out/Thru)
- Disk Drive: 3.5" Micro Floppy Disk Drive
- Dimensions: 482(W) x 340(D) x 44(H)mm (19" x 13-3/8" x 1-3/4")
- Accessories: Connector Cable (PJ-1), MIDI Cable, System Disks, Utility Disk



#### **RC-100** REMOTE CONTROLLER

The RC-100 is a sophisticated remote controller designed to expand and simplify the functions and the operation of the S-330 and S-550 Sampler Modules. Like the front panel of the S-550, the RC-100 is equipped with a ten key pad and cursor keys. In addition, it also features an  $\alpha$ -dial and two (F1/F2) "F" keys. The  $\alpha$ -dial allows data to be changed continuously, a useful feature when setting values. The "F" key allows you to directly select each of the sampler's

modes with only SYS-553 or SYS-333.

The RC-100 can be linked to the MU-1 mouse and, when used in conjunction with a CRT display, it makes sampling and editing extremely convenient from remote locations.

To fully complement either sampler's software-based "clean computer" operation, the RC-100 has been carefully designed to retain compatibility with future software upgrades.

A five meter connection cable is supplied so the compact RC-100 can be kept within easy reach.

#### **SPECIFICATIONS**

- Controls: Play, Edit, Function, Utility, MIDI, Disk, F1, F2, F3, Menu, Command, Sub-Menu, Execute, REC, Start/Stop, Insert, Delete, Cursor ( $\Delta$ ,  $\nabla$ ,  $<$ ,  $>$ ), Ten Keys (0—9), Enter, Increment, Decrement,  $\alpha$ -Dial
- Rear Panel: EXT Controller Jack, Start/Stop Jacks, REC/Continue Jack, Reset
- Connection Cable: 5m
- Dimensions: 300(W) x 173(D) x 56(H)mm (11-13/16" x 6-13/16" x 2-13/16")
- Weight: 1.4kg (3 lb. 1 oz.)

# DIGITAL SAMPLING KEYBOARD



## S-50 Professional Sampling Keyboard with Super Power and Performance

### S-50

#### DIGITAL SAMPLING KEYBOARD

*A Sampling Keyboard with Considerable Memory and Extraordinary Editing Functions*

The 16-voice polyphonic S-50 Digital Sampling Keyboard provides musicians with professional-quality sound performance and extensive editing capabilities. The S-50 offers Wave Data, LFO, an eight-stage Envelope Generator, and an Amplifier for each of its sixteen voices. Among its major features are 512K words (750KBytes) of Wave Memory, 16-bit processing, a total sampling time of up to 14.4 seconds at 30kHz and 28.8 (14.4 x 2) seconds at 15kHz, multi-timbral capabilities, and four polyphonic voice outputs. Up to thirty-two tones and eight patches can be created and stored. Four patches or tones can be played simultaneously and each patch can include settings for Velocity Switch, Velocity Mix, Velocity Crossfade, Aftertouch Sensitivity, Split Point, and numerous other edit settings.

#### **Powerful Editing Functions**

Your sampled sounds can be edited in two completely different ways with the S-50. The Wave Data Edit Function allows you to modify the actual Waveform Data of a

sample. For example, you can merge sampled waveforms, erase the beginning or end of waveform data, or adjust the low-pass and high-pass digital filters. The Tone Parameter Edit function allows you to change the way the data is read, without changing the actual waveform data. This function enables control of envelope settings and loop parameters. Used together, the Wave Data Edit and Tone Parameter Edit functions are powerful tools that make tone and patch creation surprisingly quick and easy.

In fact, every one of the S-50's many remarkable functions has been carefully designed to allow flexibility and ease in creating and controlling new sounds. For example, the envelope generator features a flexible eight-rate and eight-level configuration. In addition, the rate and level of the envelope generator can be controlled by key velocity and key scale. The key velocity sensitivity can be set to follow one of six different velocity curves.

For added convenience, jacks are provided on the rear panel of the S-50 for direct connection to a CRT monitor display. Numerous display screens are available for viewing sampled waveforms, envelopes and all other editing information. The S-50 sampler has been designed with Roland's "open system" philosophy. This means that the main performance data of Roland sampling

is resident in software and your sampler may be updated with new features and functions just by loading a new system disk.

#### **SPECIFICATIONS**

- ◆Keyboard: 61 Keys (5 octaves; C to C), Velocity and Pressure Sensitive, 16-Voice Polyphonic
- ◆Memory: 8 Patches, 16 Tones (8 tones per memory bank)
- ◆Editing: Patch, Tone, Function, Name, MIDI
- ◆Buttons: Numerical Key (0 to 9, Enter), Patch Select (P1 to P8), Patch Shift, Mode Select (Play, Function, Record, Edit, Disk, Aux), Page (+Page, -Page), Cursor (▲, ▼, ►, ◀)
- ◆Controls:  $\alpha$ -Dial, Bender Lever, Control/Bend Range, Volume, Input Gain, Record Level
- ◆Display: 32-Digit Fluorescent Display (a color or monochrome monitor display can also be used)
- ◆Disk Drive: for 3.5" Micro Floppy Disk (double-sided, double-density)
- ◆Rear Panel Jacks (Mix Output, Individual Output x 4, Headphones, Input, Hold Pedal, Pedal Control x 2), MIDI Connectors (In, Out, Thru), Display Out Connectors (RGB, Monochrome), External Controller Input Connector, Switches (Output Level, Power)
- ◆Dimensions: 1,106(W) x 328(D) x 93(H)mm (43-9/16" x 12-15/16" x 3-11/16")
- ◆Weight: 13kg (28 lb. 10 oz.)
- ◆Accessories: Connector Cable, 3.5" Disk x 5, Disk Case
- ◆Option: AB-50 Carrying Case

#### **OPTIONS**

**AB-50** Carrying Case



#### **DT-100** DIGITIZER TABLET FOR S-50

The DT-100 Digitizer Tablet can be connected directly to the S-50 to allow waveforms to be conveniently written by hand. This makes the experience of sampling and creating sounds as fun as it is productive.

◆Dimensions: 296(W) x 210(D) x 20(H)mm (11-5/8" x 8-1/4" x 13/16")

◆Weight: 720g (1 lb. 9 oz.) (Including Stylus Pen)

◆Connector: D Sub 9 pin connector

◆Accessories: Connecting Cord (approx. 1.5m)

#### **RGB-25 I/N/A/E**

#### CONNECTION CABLE FOR CRT DISPLAY



#### **RGB CABLES**

<b>RGB-25I</b>	2.5m x 1	To IBM compatible monitor
<b>RGB-25N</b>	2.5m x 1	For CC-121/141 (Roland DG)
<b>RGB-25A</b>	2.5m x 1	Compatible with: ATARI 1040ST display "SC1224"
<b>RGB-25E</b>	2.5m x 1	Compatible with 21 pin EURO SCART

# S-SERIES OPTIONAL SOFTWARE



## Sequencing Software for S-Series Samplers

### **DIRECTOR-S** (SYS-503/553/333)

Director-S sequencing software transforms your S-50, S-550, or S-330 into a sophisticated MIDI sequencer. SYS-503 is designed for the S-50, SYS-553 works with the S-550, and SYS-333 operates on the S-330. Director-S retains all sample memory and 16-voice polyphony and can control external MIDI sound sources as well.

#### *Easy, Precise Editing of Performance Data*

Director-S lets you write patterns up to sixteen measures in length. You can write a song up to 400 measures in length using 200 available patterns and 35,000 total steps (with SYS-553 only, SYS-333 offers 15,000 total steps and SYS-503 offers 2,500 total steps). To conserve memory, a pattern repeat mode allows you to repeat patterns, and any MIDI controller, such as a mother keyboard, MC-Series MicroComposer, or GM-70 Guitar-MIDI Interface can be used to input patterns in real time. To assist in the creation of

patterns, Director-S features Punch In/Out, Quantize, Overdub, and various other functions.

#### *Accurate Editing Using Microscope Mode*

With Director-S's Microscope mode, you can edit data with incredible precision. Any single MIDI event can be changed, deleted, or inserted while you view all sequencer and editing functions on the CRT. MIDI messages such as bend, modulation, velocity, aftertouch, and control change can be modified with astonishing ease.

#### *Multi-Patch Play and Other Functions*

Up to eight independent patches with full keyboard range (four with the S-50) can be played simultaneously by dividing your S-Series Sampler's sixteen voices into groups and assigning each patch with an independent MIDI channel. Each sound is then routed to one of the separate outputs. System program data, sound data, and song data may be stored together on a 3.5-inch diskette with SYS-503 only. SYS-553 and SYS-333 may store system program data and song data on a 3.5-inch diskette and sound data on another diskette.

A change system mode is provided to allow you to change between systems with ease.



## Sound Libraries for the S-Series Samplers



### **SOUND LIBRARY**

Roland has prepared an extensive library of samples for the S-50, S-550, and S-330, available on 3.5-inch diskettes. This library features a wide variety of carefully selected sampled sounds including keyboards (piano, synth, organ, etc.), strings (guitar, bass, violin, etc.), and an assortment of brass, percussion, and other instruments. There is also a fascinating collection of ethnic musical instrument samples like samisen and shakuhachi.

To create this library of superb, high-quality samples, each musical instrument was carefully selected and then recorded using advanced 16-bit digital sampling technology.

### **SYS-505** **SOUND LIBRARY CONVERTOR SOFTWARE**

SYS-505 allows S-50 users to access the new S-550 and S-330 Sound Library Software currently being developed.



### **MF2-DD** 3.5 inch FLOPPY DISK

# PCM SOUND MODULE



## A Compact MIDI Sound Module with Built-in Sampled Sounds

### U-110 PCM SOUND MODULE

The U-110 is a rack mountable MIDI sample playback unit designed for musicians who prefer to use available Sound Libraries rather than creating their own samples. By playing sounds provided in the unit's built-in ROM or those available on optional ROM cards, the U-110 offers musicians an affordable way to take advantage of the dynamic sounds and realistic textures of sampling. The U-110 features a proprietary LSI chip which provides a 32kHz sampling rate and offers sound quality equalling most high-priced samplers. The built-in 16M bit ROM provides you with the equivalent

amount of memory of four S-550 sampler disks to give you a total of 99 realistic PCM sampled sounds including pianos, bass, drums, brass, strings, and more.

The U-110's ROM format eliminates disk loading time and the unit's front panel features four ROM card slots that offer you instant access to a maximum of four optional cards at a time in addition to the internal sounds. Tones can be selected quickly from the front panel or through MIDI program changes. The U-110 receives Polyphonic Aftertouch messages through MIDI as well to offer you greater expressive capabilities. With six multi-outputs, Mono/Stereo outs, built-in digital effects, and a multi-timbral feature that allows you to play up to six tones simultaneously, the U-110 provides musicians with professional capabilities and

is an economical way to add sampled sounds to any MIDI performance or sequencing set-up.

#### SPECIFICATIONS

- Available Voices: Maximum 31-Voice Polyphony
- Timbres: 6 Multi-Timbres
- Outputs: 6 Multi-Outputs and L (mono), R
- Sampling Rate: 32kHz
- Built-in 16M bit ROM: 99 Tones Including, Acoustic Piano, Electric Piano, Vibes, Marimba, Choir Strings, Electric Organ, Bass, Trumpet/Trombone, Sax, Brass, Flute, Acoustic Guitar, Drums, "Shakuhachi", Bells, Electric Guitar, etc.
- ROM Card Slots: 4
- Effects: Digital Chorus, Tremolo
- Display: 16 Characters x 2 lines, Back-lit LCD
- Jacks: Line Out, Jacks 1-5, L (mono), R, Jacks, Headphone Jack, MIDI (In/Out/Thru)
- Dimensions: 482(W) x 358(D) x 45(H)mm (19" x 14-1/8" x 1-3/4"), 19" rack-mountable (EIA-1U)
- Weight: 4.5kg (9 lb. 14 oz.)

### Optional ROM Cards for the U-110

A Sound Library of optional ROM cards containing a wide range of sounds is available. Sounds include orchestral strings, electric grand, Latin percussion, special effects, ethnic instruments, and clavinet, and many new cards will be developed in the future.



# MIDI KEYBOARD CONTROLLER



*Full MIDI Control in a Dedicated, Full-Function Keyboard*

## **A-50** MIDI KEYBOARD CONTROLLER

Featuring impressive functions and capabilities that make it ideal for the diverse needs of any keyboard player, the A-50 is a master MIDI keyboard controller that is the perfect nucleus of any MIDI system. The A-50 is equipped with a 76-note keyboard capable of covering the needed key range when used to produce piano sounds or when used in a split configuration. The A-50 also features polyphonic aftertouch sensitivity as well as velocity and channel aftertouch sensitivity. Aftertouch, velocity curves and sensitivities can be defined to suit the requirements of any variety of sound modules or instruments connected to the keyboard.

The A-50 provides two sets of pitch bend and modulation controls and twelve user-assignable performance controllers. Front panel performance controllers include four assignable sliders and four assignable switches which may be used to perform functions such as opening and closing filters, changing envelopes, or altering any other parameter. Four expression pedals such as an EV-5 or EV-10, or four footswitches, or any combination of these controllers can also be used to control assigned MIDI functions. Up to four MIDI channels can be assigned to each performance controller.

### **Total MIDI Flexibility**

A merge function allows external MIDI data and the A-50's internal keyboard data

to be merged and sent to the MIDI outputs. MIDI data from two MIDI inputs can be merged as well. This eliminates the bother of frequent MIDI cable connection changes once a remote keyboard or digital piano is linked to one MIDI input and a sequencer output is connected to the other MIDI input. Overlapping splits may be assigned up to four zones. Each zone contains individually assigned MIDI channel numbers, program change numbers assigned to each channel, various performance controller assignments. Velocity and aftertouch curves four additional program changes on any MIDI channels may also be stored and used for effects processor program changes. These parameters can then be assigned to any of 64 patch memory locations for instantaneous switching. In addition, Zone solo and mute may be switched on or off during performances, making the A-50 an immensely powerful master keyboard for live performance or studio work.

The A-50 is also equipped with a built-in Learn function that automatically reads MIDI control change numbers sent to MIDI inputs and stores them within any of the 12 performance controllers. This useful function enables the A-50 to control everything from changing the portamento time of the D-50 Linear Synthesizer with a footpedal, to adjusting panning of the P-330 piano module with a slider. Altering any parameter accessible through system exclusive data, is also possible using exclusive data memorized within A-50 patches.

### **SPECIFICATIONS**

- Keyboard: 76 Keys, Polyphonic Aftertouch Sensitive
- Front Panel: Memory Card Slot, LCD (64 x 240 dots), Bender Lever, Bender Wheel, Modulation Wheel, Assignable Switch x 4, Assignable Slider x 4, Cursor Key x 4, Function Key x 5, Program Change Switch x 18, Other Controls x 14
- Rear Panel: MIDI In x 2, MIDI Thru, MIDI Out x 4, Foot Controller Jack x 4, Patch Change Footswitch Jack x 2, LCD Contrast Control
- Dimensions: 1,197(W) x 289.5(D) x 89(H)mm (47-1/8" x 11-3/8" x 3-1/2")
- Weight: 12kg (26 lb. 7 oz.)
- Accessories: Power Cord, Pedal (DP-2)
- Options: Stand (KS-7), Memory Card

### **OPTIONS**

**KS-7** Keyboard Stand



**M-256E**  
MEMORY CARD



**M-256D**  
MEMORY CARD

# DIGITAL PIANO



## SA Synthesis Technology The Technology behind Roland's line of Digital Pianos

### **RD-1000** DIGITAL PIANO

Structured Adaptive Synthesis is Roland's revolutionary technology developed and designed to reproduce percussive keyboard sounds with incredible accuracy. SA Synthesis makes use of exclusive advanced digital technology to produce amazingly realistic piano, harpsichord, clavinet, vibraphone and electric piano sounds over the entire dynamic and harmonic range of the keyboard. With highly expressive capabilities, SA synthesis captures all the nuances of these instruments and offers professionals the responsiveness they demand.

#### **Superb Keyboard Response**

The RD-1000 is a 16-voice instrument with 88 weighted wooden keys. Any one of four different velocity sensitivity curves may be selected to match your playing style, enabling the RD-1000 to respond to every subtle nuance in your touch and performance. A handy built-in Key Lock function secures the keyboard mechanism during transportation.

#### **Expansive Tone Memory**

The RD-1000 features eight memory banks. The first bank contains preset sounds consisting of three Piano Sounds, Harpsichord, Clavinet, Vibraphone, and two Electric Pianos. Fifty-six locations are

available in the remaining seven banks for storing edited versions of the preset sounds. An additional 64 edited tones can be stored on an optional M-16C memory cartridge. Each of the eight preset sounds can be edited with any of the ten programmable parameters: Voice Level, Bass Level, Middle Level, Middle Frequency, Middle Bandwidth, Treble Level, Chorus Rate, Chorus Depth, Tremolo Rate, and Tremolo Depth. An  $\alpha$ -Dial and illuminated two-line, 20-character LCD simplify the editing process.

#### **Voice Preserve Function**

It is easy to change from one tone to another smoothly and naturally by simply pressing a Voice Selector button. The new tone will sound only after the damper pedal and all the keys have been released. Additional convenient features include Chorus and Tremolo on/off buttons, a tuning function (with a range from 438 to 446Hz in 1Hz increments), a damper pedal, a soft pedal and both XLR and phone outputs. The Key Transpose function displays both the pre-transposed and post-transposed keys.

#### **Flexible MIDI Functions**

The RD-1000 is an excellent MIDI keyboard controller with numerous, flexible MIDI functions. For example, MIDI transmit and receive channels can be set anywhere between 1 and 16. Omni mode can be turned on or off. Program change messages 1 to 128 can be transmitted, and 1 to 64 received. Six combinations of program change messages are possible. MIDI control

change messages can be transmitted by using the External Volume control or an Expression Pedal. With its natural realistic sound source, the RD-1000 serves as an outstanding MIDI slave as well.

#### **SPECIFICATIONS**

- Sound Source: 16-Voice Polyphonic Digital Sound Source Incorporating SA Synthesis
- Keyboard: 88 Wooden Keys
- Memory: 8 Preset Sounds, 56 Programmable Sounds (7 edited sounds of each preset sound)
- Switch: Output Level Select
- Memory Cartridge Slot: 1
- MIDI Connectors: In, Out, Thru
- Jacks on the RD-1000: Headphones, Phone Output (L, R), XLR Output (L, R, 600 $\Omega$ ), Pedal Unit Cable In
- Jacks on the Pedal Unit: Expression Pedal, AC Inlet
- RD-1000 Dimensions: 1,352(W) x 557(D) x 154(H)mm (53-1/4" x 21-15/16" x 6-1/16")
- Pedal Unit Dimensions: 600(W) x 333(D) x 98(H)mm (23-5/8" x 13-1/8" x 3-7/8")
- RD-1000 Weight: 43.5kg (95 lb. 14 oz.)
- Pedal Unit Weight: 8.5kg (18 lb. 12 oz.)
- Accessories: Connection Cord x 2, Power Cord

#### **OPTIONS**

**KS-11** Keyboard Stand



**TB-RD-1000** Carrying Case

**TB-RD-P** Pedal Case

**TB-KS-11** Keyboard Stand Case



# DIGITAL PIANO & DIGITAL PIANO MODULE



## SA Synthesis Technology in Two Compact Keyboards

### RD-300/RD-250 DIGITAL PIANO

The 88-key RD-300 and the 76-key RD-250 feature Roland's revolutionary new Structured Adaptive Synthesis technology which enables them to produce amazingly realistic percussive keyboard sounds.

Eight preset SA synthesized tones are stored for instant recall, including five 16-voice polyphonic tones (three different Piano tones, Vibraphone, and Electric Piano 1), and three 10-voice polyphonic tones (Harpichord, Clavinet, and Electric Piano 2).

Both pianos feature a built-in Chorus effect, a Brilliance adjustment slider, a Tremolo effect with adjustable Rate and Depth settings, a Key Transpose function,

and a special Voice Preserve function for smooth tone changes. In addition, two DP-2 Pedal Switches can be connected to either unit, one of which functions as a damper pedal, and the other functions as either a soft pedal, a sostenuto pedal, or a remote control pedal.

#### MIDI Versatility

The RD-300 and the RD-250 feature a keyboard split that can be positioned anywhere on the keyboard and the upper and lower parts may be assigned separate MIDI channels. Each part has its own MIDI message transmit on/off control as well as local on/off. In addition, each part has its own External Volume Control for adjusting slave volume levels. MIDI control messages including chorus, tremolo, hold, sostenuto, and soft pedal can be transmitted or received. Program change messages 0 to 127 can be transmitted and 0 to 31 can be received.

#### SPECIFICATIONS

- RD-300 Keyboard: 88 Keys, Velocity-Sensitive
- RD-250 Keyboard: 76 Keys, Velocity-Sensitive
- Preset Sounds: Piano 1, Piano 2, Piano 3, Harpsichord, Clavi, Vibraphone, Electric Piano 1, Electric Piano 2
- Effects: Chorus (On/Off), Tremolo (On/Off, Rate, Depth)
- Jacks: Headphones, Output (L, R), Soft/Remote Pedal, Damper Pedal
- MIDI Connectors: In, Out, Thru
- RD-300 Dimensions: 1,405(W) x 461(D) x 133(H)mm (55-5/16" x 18-1/8" x 5-1/4")
- RD-250 Dimensions: 1,242(W) x 461(D) x 133(H)mm (48-7/8" x 18-1/8" x 5-1/4")
- RD-300 Weight: 27.2kg (59 lb. 15 oz.)
- RD-250 Weight: 29kg (63 lb. 15 oz.)
- Accessories: Power Cord, Connection Cord x 2, DP-2 Pedal Switch

#### OPTIONS

- KS-7 Keyboard Stand
- TB-RD-300 Carrying Case



## The Perfect Piano Module for Discriminating Musicians

### P-330 DIGITAL PIANO MODULE

The P-330 is a compact, rack-mountable digital piano sound source module which contains a selection of high-quality keyboard and piano sounds that expand the sound potential of any MIDI keyboard set-up. Featuring SA (Structured Adaptive) synthesis technology, the P-330 contains an assortment of sounds including Piano 1, 2, and 3,

Harpichord, Clavinet, Vibes, and Electric Piano 1 and 2. Once a sound is selected on the P-330, several high-quality effects including Chorus, Tremolo, and Equalizer may be selected to enhance the sound as desired. Designed for MIDI compatibility, the P-330 allows you to stack several P-330 sound modules together to multiply its 16-voice polyphonic abilities if desired. Optimized for professional use in the studio as well as real-time performance, the P-330 delivers superior sound quality in a space saving design.

#### SPECIFICATIONS

- Maximum Number of Voices: 16-Voice Polyphonic
- Sound Sources •SA Synthesis: Piano 1, 2, 3, Harpsichord, Clavi, Vibes, Electric Piano 1, 2
- Effects •Chorus: On/Off, Rate: 0-100, Depth: 0-100
- Tremolo: On/Off, Rate: 0-100, Depth: 0-100
- Equalizer: High, -100 ~ +100, Low: -100 ~ +100
- Octave Shift: -2, -1, 0, +1, +2
- Velocity: 5 Pre-set Velocity Curves
- Front Panel: 16 Character, 2-line LCD, Function Switch, Edit Switch, Tune Switch, Write Switch, Stack/Exit Switch, Dump Switch, Patch Switch x 8, Headphones Jack, Volume, Power On/Off, MIDI Message Indicator
- Rear Panel: MIDI (In/Out/Thru), Jacks: L, R, Line Out, Output Level Switch
- Dimensions: 482(W) x 340(D) x 44(H)mm (19" x 13-3/8" x 1-3/4"), 19" rack-mountable (EIA-1U)
- Weight: 5kg (11 lb.)
- Accessories: MIDI Cable, Connection Cord (LP-25) x 2

# POLYPHONIC SYNTHESIZER MODULE



*Add a Remarkable Digital/Analog Sound Capability to Your MIDI Setup*

## MKS-70

**POLYPHONIC SYNTHESIZER MODULE**

The MKS-70 is a rack-mountable hybrid digital/analog synthesizer that offers the best features of both technologies, as well as a 12-voice polyphonic sound source, expandable tone/patch memory, overlapping key split, and full MIDI implementation. Equipped with 24 DCO's and 24 Envelope Generators, the MKS-70 can function as either a 12-voice polyphonic synthesizer or as two 6-voice polyphonic synthesizers which simultaneously play different sounds.

The MKS-70 is ideal for any MIDI keyboard setup and can also serve as an excellent sound source for a MIDI guitar controller. The MKS-70 is equipped with a "mono mode" function which allows guitarists to assign a separate voice to each guitar string using a separate MIDI channel. This enables the guitarist to perform realistic bending, slurring, and vibrato effects.

### SPECIFICATIONS

•Memory: Internal Memory (64 Patches, 50 Preset Tones, 50 Programmable Tones), External Memory (64 Patches, 50 Tones) •Buttons: Patch Memory (A to H, 1 to 8), Edit (Patch, Tone, MIDI, Parameter, Value, Name), A/B (also moves cursor), Chase Play, Cartridge, Write, Shift, Enter, Master Tune •Controls: Volume,  $\alpha$ -Dial •Switches: Memory Protect, Power

•Jack: Headphones •Connector: Programmer In •LED's: MIDI Indicator, Mono Mode Indicator •Display: 32-digit, fluorescent display •Rear Panel: Output Jacks (Total Mix, Tone A Right, Tone A Left, Tone B Right, Tone B Left), Switch (Output Level), MIDI Connectors (In, Out, Thru) •Dimensions: 480(W) x 400(D) x 88(H)mm (18.78" x 15.34" x 3.716"), 19" rack-mountable (EIA-2U) •Weight: 7.6kg (16 lb. 12 oz.) •Accessories: Connection Cord x 2, MIDI Cable, M-64C Memory Cartridge, Edit Map



## PG-800 PROGRAMMER

PG-800 is designed for use with the SUPER JX, JX-8P and MKS-70. Its sliders and controls simplify editing and programming, even permitting the simultaneous adjustment of several different parameters.

The PG-800 fits snugly on top of the SUPER JX, JX-8P or MKS-70, and is held in place by a magnetic seat. It comes packaged with a carrying case.

•Dimensions: 265(W) x 215(D) x 27(H)mm (10.7/16" x 8.7/16" x 1.1/16") •Weight: 680g (1 lb. 8 oz.) •Accessories: 6-pin DIN Cable, Carrying Case



*Distinctive JUNO Sounds in a Compact New MIDI Module*

## MKS-50

**POLYPHONIC SYNTHESIZER MODULE**

The MKS-50 is a 6-voice polyphonic MIDI module with the same sound source circuitry as the  $\alpha$  JUNO synthesizer. It features a versatile seven-parameter Envelope Generator that permits creation of a wide and interesting range of articulations. Also, a built-in Chorus allows you to add extra richness and fullness to your tone creations.

The internal memory stores 128 pro-

grammable tones and 128 patches. A Tape Interface is featured for storing additional tones, patches, and chord patterns on cassette tape.

The MKS-50 shares virtually all of the exciting features of the  $\alpha$  JUNO-1, including a Chord Memory function, a special DCO design that offers 14 different waveforms, and extensive MIDI implementation. MIDI mono mode makes the MKS-50 a great sound module for a MIDI guitar system.

### SPECIFICATIONS

•Memory: 128 Tones, 128 Patches, 16 Chords •Jack: Headphones (8 to 150 $\Omega$ , Stereo) •Control:

Volume •Display: 16-digit, illuminated LCD •Buttons: Tune/MIDI, Name, Data Transfer, Write, Patch, Tone, Number, Parameter, Value •Switch: Power •LED: MIDI Indicator •Rear Panel: Output Jacks (Mono, Stereo), Tape Interface Jacks (Save, Load), MIDI Connectors (In, Out, Thru) •Dimensions: 480(W) x 290(D) x 44(H)mm (18.7/8" x 11.7/16" x 1.3/4") •Weight: 3.5kg (7 lb. 11 oz.) •Accessory: MIDI Cable



## PG-300 PROGRAMMER

Designed for the MKS-50,  $\alpha$  JUNO-1 and  $\alpha$  JUNO-2, the PG-300 features numerous slider controls that make editing and programming these instruments quick and simple.

## OPTIONS

### VR-101/102/103 SOUND LIBRARY

The VR-101/102/103 Sound Library offers MKS-70 users a wide variety of additional high-quality sounds. Each ROM card gives you 50 Tones and 64 Patches consisting of either acoustic sounds (VR-101), Synth sounds (VR-102), or Sound Effects (VR-103), and greatly expands your musical sound resources.

# MIDI SIGNAL PROCESSING UNIT



## Keyboard Signal Indicator Displays MIDI Data Flows

### A-110 MIDI DISPLAY

The A-110 displays a full 88-key note range (A1 to C8) for convenient monitoring of MIDI messages such as note on/off, program change, and hold. Occupying only a single rack space, the A-110 is a valuable monitoring tool.

#### SPECIFICATIONS

- Indicators and Display, Key Indicators (88 Keys: A0 to C8), Hold Indicator, Octave Indicator, Program Change Display
- Switches: Channel Selector (1 to 16, All Ch, All-PGM)
- Jacks: MIDI In x 1, MIDI Thru x 5, AC In x 1
- Dimensions: 482(W) x 274(D) x 44(H)mm (19" x 10-13/16" x 1-3/4")
- 19" rack-mountable (EIA-1U)
- Weight: 2.9kg (6 lb. 6 oz.)



## MIDI Patching for the Most Demanding Set-ups

### A-880 MIDI PATCHER/MIXER

The A-880 provides you with eight MIDI inputs which are assignable to any combination of eight MIDI outputs to allow instantaneous switching of inputs to outputs without changing any MIDI cable connections. The A-880's MIDI Mix function

allows any two MIDI signals from different sources to be mixed without MIDI event dropouts or transmission delays, and MIDI data can be filtered to exclude specific MIDI messages such as bend, program change, note on/off, etc.

MIDI connection settings can be stored in any of 64 memory patch locations which allows you to switch MIDI input/output connections externally using MIDI program change messages.

#### SPECIFICATIONS

- Connectors: MIDI In x 8 (Front Panel 2, Rear Panel 6), MIDI Out x 8 (Front Panel 2, Rear Panel 6)
- Buttons: Mode x 4 (Scan/Mix, Signal, Memory, Write)
- Input/Bank: MIDI In x 8
- Output/Number: MIDI Out x 8
- LEDs: Mode x 4 (Scan/Mix, Signal, Memory, Write)
- Input/Bank: MIDI In x 8
- Output/Number: MIDI Out x 8
- Memory: 64 Patch settings
- Dimensions: 482(W) x 286(D) x 44(H)mm (19" x 11-1/4" x 1-3/4")
- 19" rack-mountable (EIA-1U)
- Weight: 3kg (6 lb. 10 oz.)

# MIDI PERIPHERAL



### MPU-105 MIDI OUTPUT SELECTOR

The MPU-105 has one MIDI In connector and five MIDI Thru connectors. Five Select switches allow the MIDI Thru connectors to be turned on and off individually. The MPU-104 and the MPU-105 can be combined to form a convenient and economical MIDI patchbay.

- Connector Select Switches: 1 to 5
- MIDI Connectors: In x 1, Thru x 5
- Indicators: Connector Numbers (1 to 5), MIDI, Power
- Power Source: DC 9V by PSA series AC Adaptor
- Current Draw: DC 9V, 5mA (when all LEDs lighting)
- Dimensions: 218(W) x 157(D) x 46(H)mm (8-9/16" x 6-3/16" x 1-13/16")
- Weight: 900g (2 lb.)
- Accessory: AC Adaptor (PSA series)



### MPU-104 MIDI INPUT SELECTOR

The MPU-104 has five MIDI In connectors and one MIDI Thru connector. Five Select switches are provided for selecting which of the five MIDI Inputs will be accepted and transmitted.

- Connector Select Switches: 1 to 5
- MIDI Connectors: In x 5, Thru x 1
- Indicators: Connector Numbers (1 to 5)
- Power Source: DC 9V by PSA series AC Adaptor
- Current Draw: DC 9V, 5mA
- Dimensions: 218(W) x 157(D) x 46(H)mm (8-9/16" x 6-3/16" x 1-13/16")
- Weight: 900g (2 lb.)
- Accessory: AC Adaptor (PSA series)



### MPU-103 MIDI CHANNEL FILTER/CONVERTER

- Switches: Filter Channel Select, Converter On/Off, Key Event Only On/Off
- Indicators: MIDI, Power
- MIDI Connectors: In, Out, Thru
- Power Source: DC 9V by PSA series AC Adaptor
- Current Draw: DC 9V, 200mA
- Dimensions: 218(W) x 167(D) x 46(H)mm (8-9/16" x 6-9/16" x 1-13/16")
- Weight: 930g (2 lb. 1 oz.)
- Accessory: AC Adaptor (PSA series)



### MM-4 MIDI THRU BOX

The MM-4 has one MIDI In connector and four MIDI Thru connectors. It allows one MIDI controller to control four MIDI slaves.

- MIDI In Jack: 1
- MIDI Out Jacks: 4
- Indicators: MIDI, Power
- Power Source: DC 9V by PSA series AC Adaptor
- Dimensions: 138(W) x 73(D) x 37(H)mm (5-7/16" x 2-13/16" x 1-7/16")
- Weight: 300g (11 oz.)

# MICRO COMPOSER



## A Powerful Eight Track Sequencer with 100,000 Note Capacity and More

### MC-500MKII MICRO COMPOSER

The MC-500 MARK II is a self-contained MIDI production computer based on Roland's "open system" design philosophy. New Roland software packages and updates allow you to use your MC-500 as more than a sequencer and let you keep up with the latest developments. Featuring an impressive 768K of internal RAM, the MC-500 Mark II comes with the new SUPER MRC software package which provides musicians with superior sequencing capabilities and greater control over their music than ever before.

SUPER MRC with the MC-500 Mark II gives you instant access to approximately 100,000 notes (25,000 with the MC-500 and MC-300), and all functions such as recording, editing, copying, merging, and song loading can be performed quickly, efficiently, and easily.

SUPER MRC provides eight separate polyphonic tracks (for MC-500/300 users, this expands your four track capacity to eight tracks), and each track handles MIDI

data from all 16 channels. That equals 128 separate performance parts—each of which each can be edited, copied, and merged without any loss of editing capability. All of this can be sent through two separate MIDI outputs which simultaneously handle MIDI data from all 16 channels. Any combination of the eight tracks can be assigned to either or both outputs, making it possible to control 32 (16 x 2) separate MIDI channels.

#### SPECIFICATIONS

##### MC-500 MKII HARDWARE

- Internal Memory Capacity (RAM): 768K bytes.
- Disk Drive: For 3.5" 2DD Disk
- Disk Storage Capacity: 720K bytes
- Display: 20 Characters x 2 lines, back-lit LCD
- Rear Panel: MIDI (In/Thru/Out x 2)
- Jacks: Start/Stop (for the DP-2), Punch-In/Out (for the DP-2), Metronome Out, Metronome Level, Tape Sync In/Out (RCA Pins)
- Input Level: -20 to 0dBV (0dBV=0.775Vrms)
- Input Impedance: 50k $\Omega$
- Output Level: -10dBV (at 50k $\Omega$  load)
- Output Impedance: 1k $\Omega$  or less
- Dimensions: 305(W) x 285(D) x 91(H)mm (12" x 11-1/4" x 3-9/16")
- Weight: 3.4kg (7 lb. 8 oz.)
- Accessories: SUPER MRC System Disk, Blank Disk (MF-2DD), MIDI Cable x 2, AC Cord, MC-500 MKII Owner's Manual, SUPER MRC Application Manual (Basic, Advanced), "What is MIDI," Warranty, List of Service Stations
- Options: Pedal switch (DP-2), Connecting Cable PJ-1M, Carrying Case AB-300

##### SUPER MRC SOFTWARE SONG DATA

- Max. Length of Song Data: 9,999 measures or quarter notes x 87,381
- Tempo Control Range: =10 to 250 (Basic Tempo), =5 to 500 (Controlled by Tempo Track)
- Tracks: Phrase Track x 8 (16 MIDI channels per track), Rhythm Data Track x 1 (to store joined rhythm patterns), Tempo Track x 1
- Recording Modes: Realtime Recording, Step Recording
- Max. Number of Simultaneously Recorded Notes: 64 Notes (in realtime recording mode)
- Max. Number of Simultaneously Output Voices: 64 Notes/Track
- Resolution: 96 Clock/Quarter Note
- Time Signature: 1 to 32/16, 1 to 32/8, 1 to 32/4, 1 to 32/2
- Rhythm Pattern Data
- Max. Number of Rhythm Instruments: 32 (assigned to separate MIDI channels)
- Max. Number of Patterns: 240 per song
- Resolution: 32nd-note minimum (settable for each instrument)
- Song Data Storage Capacity
- Internal Memory: 8 Songs or approx. 100,000 Notes (using MC-500/300)
- Disks
- System Disk: 103 Files, or approx. 90,000 Notes
- Data Disk: 109 Files, or approx. 150,000 Notes
- Song Data Internal Setting: Func 1 to 14
- Song Data Editing
- Editing with Range Set: Edit 1 to 15
- Event based Editing
- Micro Editing 1 to 5: Step Editing 1 to 3
- Song Linking: Mode 3 Link

##### EXTERNAL CONNECTIONS

- MIDI Environment Control
- MIDI Input Control: MIDI 1, 2
- MIDI Output Control: MIDI 3
- External Sync: MIDI, Tape Sync

# MICRO COMPOSER & SOFTWARE



## Attractively Priced Sequencer with Advanced Sequencing Capabilities

### **MC-300** MICRO COMPOSER

The MC-300 is a new, attractively priced sequencer designed for musicians who need a sophisticated but affordable

sequencer. The MC-300 features most of the functions of the MC-500, including Roland's "open system" design approach featured in the more advanced MC-500 Mark II as well. The MC-300 can run commercially available software designed for the MC-500 and MC-500 Mark II including SUPER MRC and a variety of other optional packages. With an internal memory capacity of 25,000 notes, the MC-300 offers the same user-friendly design found on the MC-500.

#### **SPECIFICATIONS**

##### **MC-300 HARDWARE**

•Memory Capacity: 256K bytes •Disk Drive: Accepts one 3.5" MF-2DD Disk •Display: Illuminated LCD (2 lines x 20 characters) •Jacks: Start/Stop, Punch-In/Punch-Out, Metronome Out, Tape Sync In/Out •MIDI Connectors: In, Out x 2 Thru •Dimensions: 305(W) x 280(D) x 79.5(H)mm (12" x 11" x 3-1/8") •Weight: 3.4kg (7 lb. 8 oz.) •Accessories: MRC-300 System Disk, MIDI Cable x 2, Blank Disk x 1

##### **MC-300 SOFTWARE**

•Tracks: Recording Track x 4, Rhythm Track x 1, Tempo Track x 1 •Recording Methods: Realtime Recording, Step Recording •Rhythm Track: Controls up to 32 Sound Sources, Stores up to 90 Rhythm Patterns with 32nd-note minimum resolution •Edit Functions: Erase, Delete, Insert, Merge, Extract, Transpose, Change Velocity, Quantize, Copy, Change MIDI Channel •Microscope Functions: Change Event, Delete, Insert, Change CPT •Memory: Approx. 25,000 Notes (Internal Memory), Approx. 100,000 Notes (Disk Memory) •External Sync: MIDI, Tape Sync

## Software and Accessories That Expand Your Music-Making Potential

### **SUPER MRC** NEW SYSTEM SOFTWARE FOR THE MC-SERIES MICRO COMPOSERS

Super MRC is a completely new sequencing package which includes over 100 new functions and useful features. Roland's engineers spent over two years developing SUPER MRC to produce a superior sequencing package that gives musicians greater control over their music than ever before. Perfectly matched for use with the MC-500 Mark II, SUPER MRC software is also compatible with the MC-500 and MC-300 and expands the four track capacity of these units to eight tracks. Song data which has been created on the MC-500 or MC-300 can be converted to SUPER MRC data easily using SUPER MRC's data convert function.

### **MRD-500** RHYTHM BANK

The MRD-500 is a unique Rhythm Bank program that gives you approximately 800 preprogrammed rhythm patterns for the creation of custom rhythm tracks. A well-documented reference manual makes it easy to locate suitable rhythms for a variety of musical styles including rock, Latin, and jazz. The drum patterns also contain velocity data for accents and dynamics, and can be used in conjunction with a MIDI rhythm composer such as the TR-626, TR-505, TR-707, or TR-727 to provide the perfect rhythmic accompaniment for your musical compositions.

### **MRB-500** BULK LIBRARIAN

The MRB-500 Bulk Librarian program is designed to turn the MC-500 Mark II, MC-500, or MC-300 Micro Composers into a database for various synthesizers, effects processors, and other MIDI devices that use System Exclusive bulk data transfer. MRB-500 software allows you to store Roland System Exclusive data as well as that of other instrument manufacturers. With a storage capacity equivalent to 16 RAM cards for the D-50, or 100 for  $\alpha$  JUNO cartridges, the MRB-500 Bulk Librarian software is an economical and efficient storage medium for MIDI System Exclusive data,

### **MRP-500** PERFORMANCE PACKAGE

The MRP-500 software package allows compositions stored on disk to be loaded to the MC-500 or MC-300 in any order for automatic performance. The time interval between songs can be set at between 0 and 240 seconds, and it is also possible to mute tracks or skip songs.

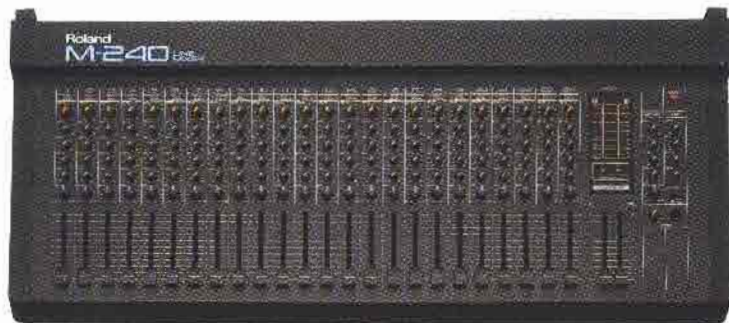
Function settings can be stored and saved to disk, including settings for MIDI transmit channels, Soft Thru, Clock, and Metronome on/off. MRP-500 software is ideal for live performers and makes performing large amounts of sequenced material easier than ever.

### **OM-500** MC-500 CONVERSION KIT

OM-500 is a conversion kit which upgrades an MC-500 to an MC-500 Mark II.



# LINE MIXER



## M-240/M-160 LINE MIXER/RACK-MOUNT MIXER

### High-Quality Line Mixers for Full Function Flexibility

Roland's M-240 and M-160 combine superior sound quality with greater mixing flexibility to meet the demanding requirements of today's electronic musicians. In addition to channel fader, sensitivity, pan, and auxiliary controls, both units feature three independent stereo effects sends which allow you to create multiple effects combinations for each input. The three effects busses feature stereo returns which permit you to take full advantage of effects devices equipped with stereo outputs such as digital delay and digital reverb. With an exceptionally high signal-to-noise ratio, low distortion, and outstanding frequency response, these units feature compact designs and are well suited for any application from recording to performing.

#### SPECIFICATIONS

•Inputs •Channels: 1-16 (M-160), 1-24 (M-240) •Master: Return 1, 2, 3 (stereo), 4 (mono), Bus In, Eff. 1, 2, 3, Aux, Phones Mix In •Outputs: Effect Send 1, 2, 3, Aux, Balance Out (L, R), Unbalance Out (L, R) Phones  
•Controls •Channels: Sens, Effect 1, Effect 2, Effect 3, Aux, Panpot, Channel Fader •Master: Send Level Eff. 1, 2, 3, Aux, Return Level Rtn. 1, 2, 3 (stereo), Rtn. 4 (mono), Panpot of Return 4, Aux Select (Pre/Post), Headphone Level, Master Fader (L, R), Power Switch •Rear Panel: Level Select •Indicators •Channel Peak/Signal Indicator •Master: 12 Point Bar LED Peak Meter (L, R), Pre Fader Peak/Signal Indicator, Power Indicator  
•Frequency Response: 10Hz to 60kHz  $\pm 1$ dB (Sens Min) •THD at 20Hz to 20kHz: 0.1% or less •Crosstalk: -70dB or less •M-160 Dimensions: 482(W) x 250(D) x 180(H)mm (19" x 9-13/16" x 7-1/16") •M-240 Dimensions: 660(W) x 288(D) x 88(H)mm (26" x 11-5/16" x 3-7/16") •M-160 Weight: 5.6kg (12 lb. 6 oz.) •M-240 Weight: 5.1kg (11 lb. 4 oz.)

# KEYBOARD AMPLIFIER & SPEAKER



## CUBE KEYBOARD AMPLIFIERS

Roland's Cube-Series Keyboard amplifiers are designed to faithfully reproduce the complex sounds of today's electronic musical instruments. Each unit offers two input channels and treble, middle, and bass EQ controls, in addition to line-out and headphone jacks. The CK-60 and CK-40 come with built-in reverb.

#### CUBE KEYBOARD SPECIFICATIONS

**CK-100** •Output: 100W (RMS) •Speakers: 38cm (15") Woofer x 1, Horn Midrange x 1, Dome Tweeter x 1 •Controls: Volume (1 and 2)—pull attenuator on, Bass, Middle, Treble •Switch: Power •Jacks: Input 1 x 2, Input 2 x 2, Pre Out, Main In, Line Out, Headphones •Dimensions: 464(W) x 400(D) x 753(H)mm (18-1/4" x 15-3/4" x 29-5/8") •Weight: 31kg (68 lb. 5 oz.) •Accessory: Vinyl Cover  
**CK-60** •Output: 60W (RMS) •Speakers: 30cm (12") Woofer x 1, Horn Tweeter x 1 •Controls: Volume (1 and 2)—pull attenuator on, Bass, Middle, Treble, Reverb •Switches: Reverb, Power •Jacks: Input 1, Input 2, Recording Out x 2, Pre Out, Main In, External Speaker, Headphones •Dimensions: 370(W) x 300(D) x 465(H)mm (14-9/16" x 11-13/16" x 18-5/16") •Weight: 16.5kg (36 lb. 6 oz.) •Accessory: Vinyl Cover  
**CK-40** •Output: 40W (RMS) •Speaker: 25cm (10") Double Cone x 1 •Controls: Volume (1 and 2)—pull attenuator on, Bass, Middle, Treble, Reverb •Switch: Power •Jacks: Input 1, Input 2, Recording Out x 2, Pre Out, Main In, Headphones •Dimensions: 310(W) x 205(D) x 368(H)mm (12-3/16" x 8-1/16" x 14-1/2") •Weight: 11kg (24 lb. 4 oz.) •Accessory: Vinyl Cover



## RSM-150L MONITOR SPEAKER SYSTEM

The RSM-150L is compact, three-way bass reflex studio monitor designed to provide clear, accurate frequency response over the whole audio spectrum. All three speaker components employ a low leakage magnetic flux design, and variable high and mid-range level controls allow you to adjust the RSM-150L's frequency characteristics to optimally meet your particular requirements.

#### SPECIFICATIONS

•Speakers: 28cm x 1 (Woofer), 12cm x 1 (Cone Squawker), 2.5cm x 1 (Hard Dome Tweeter)  
•Rated Input: 45W (RMS) (Continuous Programming: 135W) •Impedance: 8 $\Omega$  •Output Sound Pressure Level: 91dB (1W/1m) •Playback Frequency Response: 50Hz to 20kHz •Cross Over Frequency: 1kHz, 4kHz •Enclosure: Bass Reflex •Material and Finish: Particle Board (Vinyl-Leatherette Finish), Jersey Grille (Detachable), Flank Handle •Inputs: Push Terminal •Dimensions: 360(W) x 308(D) x 655(H)mm (14-3/16" x 12-1/8" x 25-13/16") (Including the corner guard) •Weight: 20kg (44 lb. 1 oz.) •Accessories: Speaker Cord (5m two-lead type cord)



## MS-30 BK/WH SPEAKER SYSTEM

The MS-30 is a compact, heavy-duty speaker system which features a specially-designed, five-inch full range speaker in a tuned and reinforced enclosure. The MS-30 has a rated power handling capacity of 30 watts, and the speaker unit is magnetically shielded, making it ideal for a wide range of applications including recording, instrument amplification, home-entertainment, and audio-visual production.

#### SPECIFICATIONS

•Input: 30W (RMS) •Speaker: 12cm (5") Full-Range, Magnetic-Shielded x 1 •Impedance: 6 $\Omega$  •Jacks: 6.5" Phone Jack x 1 •Input: Push Terminals •Dimensions: 132(W) x 175(D) x 218(H)mm (5-3/16" x 6-7/8" x 8-9/16") •Weight: 2.0kg (4 lb. 7 oz.) •Finish: Black (MS-30BK), White (MS-30WH) •Options: MAH-1 Mounting Holder

# ACCESSORY

## KEYBOARD STANDS

**KS-2**



**KS-5**



**KS-7**



**KS-8**



**KS-11**



## EXPRESSION PEDALS

**EV-5**



**EV-10 (BOSS)**



## FOOT VOLUMES

**FV-50H/50L (BOSS)**



**FV-100 (BOSS) FV-200 (BOSS)**



## PEDAL SWITCHES

**DP-2**



**DP-6**



## FOOT SWITCHES

**FS-5L/5U (BOSS)**



(LATCH TYPE)



(UNLATCH TYPE)

**FS-1/2/3**



## MEMORY CARTRIDGES/DISKS/CARDS

**M-16C/64C**

MEMORY CARTRIDGES



**MF2-DD**

3.5 inch FLOPPY DISK

**QD-10**

2.8 inch QUICK DISK

**M-256E/D, 128D**

MEMORY CARD

DISK/CARD	MODEL
<b>MF2-DD</b>	D-20, S-50, S-550, S-330, MC-500MKII, MC-300, MC-500
<b>M-256E/256D</b>	D-10, D-20, D-50, D-110, D-550
<b>M-128D</b>	D-110

NOTE: The approximate life of M-256D and M-256E batteries ranges from two to four years, and one to two years, respectively.

## CONNECTION CORDS

### MIDI CABLES

5-pin DIN plug ↔ 5-pin DIN plug		
<b>MSC-07/07R/07Y</b>	70cm × 2	Black/Red/Yellow
<b>MSC-15/15R/15Y</b>	1.5m × 1	Black/Red/Yellow
<b>MSC-25/25R/25Y</b>	2.5m × 1	Black/Red/Yellow
<b>MSC-50/50R/50Y</b>	5.0m × 1	Black/Red/Yellow
<b>MSC-100</b>	10.0m × 1	Black
<b>MEA-1</b>	MIDI Extension Adaptor	

5-pin DIN cable for connecting MIDI jacks on MIDI keyboards and MIDI sequencers etc.

### PIN JACK CORDS

Angle phone plug ↔ Pin plug + Pin-to-phone adaptor		
<b>PJ-1M (OFC)</b>	2.5m × 1	Black
<b>PJ-2 (OFC)</b>	1.5m × 1	Black (gold-plated connecting parts)
<b>PJ-3 (OFC)</b>	2.5m × 1	Black (gold-plated connecting parts)

### DC CABLES

8-pin parallel cord (for AC adaptor)		
<b>PCS-20A (BOSS)</b>	1m × 1	Black
DC plug ↔ DC plug		
<b>PCS-25 (BOSS)</b>	50cm × 2	Gray
<b>PCS-26 (BOSS)</b>	1m × 2	Gray
<b>PCS-27 (BOSS)</b>	2.5m × 2	Gray
DC jack ↔ DC plug × 2		
<b>PCS-28 (BOSS)</b>	2.5m × 1	Gray
<b>PCS-29 (BOSS)</b>	20cm × 2	Gray

### RGB CABLES

<b>RGB-25I</b>	2.5m × 1	To IBM-compatible monitor
<b>RGB-25N</b>	2.5m × 1	For CC-121/141 (Roland DG)
<b>RGB-25A</b>	2.5m × 1	Compatible with ATARI 1040ST display "SC1224"
<b>RGB-25E</b>	2.5m × 1	Compatible with 21-pin EURO SCART

NOTE: OFC (Oxygen Free Copper) having a purity of 99.99% is employed for audio signal PCS cords, thereby ensuring high grade sound transfer suitable for digital equipment.

### PCS CORDS

Phone plug ↔ Phone plug		
<b>PCS-40 (OFC)</b>	40cm × 2	Black (one with a pair of red plug handles and the other with a pair of black plug handles)
<b>PCS-75 (OFC)</b>	75cm × 2	
<b>PCS-150 (OFC)</b>	1.5m × 2	
Phone plug × 2 ↔ Phone plug × 2		
<b>PCS-075W (OFC)</b>	75cm × 1	
<b>PCS-150W (OFC)</b>	1.5m × 1	Black (red and black plug handles on each cord end)
<b>PCS-250W (OFC)</b>	2.5m × 1	
<b>PCS-500W (OFC)</b>	5.0m × 1	
Phone plug × 4 ↔ Phone plug × 4		
<b>PCS-250Q (OFC)</b>	2.5m × 1	Black
<b>PCS-500Q (OFC)</b>	5.0m × 1	Black
Angle phone plug ↔ Angle phone plug		
<b>PCS-18B (OFC)</b>	10cm × 5	Black
<b>PCS-19B (OFC)</b>	70cm × 1	Black
Angle phone plug × 2 ↔ Angle phone plug × 2		
<b>PCS-15L (OFC)</b>	1.5m × 1	Black (red and black plug handles on each cord end)
<b>PCS-25L (OFC)</b>	2.5m × 1	
Phone plug × 2 ↔ Pin plug × 2 + Angle pin-to-phone adaptor × 2		
<b>PCS-100PW (OFC)</b>	1.5m × 1	Black (red and black plug handles on each cord end)
Mini plug ↔ Mini plug		
<b>PCS-10</b>	20cm × 2	Black/Red
	40cm × 4	Black × 2/Red × 2
	60cm × 2	Gray
Phone jack × 2 ↔ Pin plug × 2		
<b>PCS-21</b>	1.5m × 1	Black
Mini stereo plug ↔ Mini stereo plug		
<b>PCS-22S</b>	50cm × 1	Gray



*\*Specifications and appearance subject to change without notice.*