

# Fantom-S Fantom-S88

COSMI V-LINK GENERAL MIDI2

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## Specifications

<b>Keyboard</b>	[S] 61 keys (with velocity and channel aftertouch) [S88] 88 keys (Progressive Hammer-Action mechanism and channel aftertouch)	<b>Effects</b>	<Resolution> 480 TPN <Tempo> 5—300 <Note Capacity> approx. 400,000 notes <Song Length> 9,998 measures <Recording Method> Realtime recording, Step recording Multi-Effects: 3 systems, [S] 77 types / [S88] 78 types, Chorus: 3 types, Reverb: 5 types, Input Effect: 6 types, Mastering Effect: 3-band Compressor	<b>Connectors</b>	Headphones Jack, A (MIX) Output Jacks (L (MONO), R) (1/4 inch TRS phone type), B Output Jacks (L, R) (1/4 inch phone type), Input Jacks (L (MONO)/MIC, R) (1/4 inch phone type), Hold Pedal Jack (Half Pedal possible), Control Pedal Jack (assignable), MIDI Connectors (IN, OUT, THRU), USB Connector [supports file transfer (mass storage class)], Digital Audio Interface (COAXIAL/OPTICAL OUTPUT only), AC Inlet
<b>Maximum Polyphony</b>	64 voices (shared with the sampling section)	<b>Expansion Slot</b>	<Internal sound generator expansion(Waveforms, Patch)> SRX expansion boards: 4 slots *1 <Sampling memory expansion> DIMM: 1 slot (supports 128 M bytes, 256 M bytes (3.3 V)) <Memory card expansion> SmartMedia card: 1 slot (supports 8 M bytes/16 M bytes/32 M bytes/64 M bytes/128 M bytes (3.3 V))	<b>Power Supply</b>	AC 117 V, AC 230 V, AC 240 V
<b>Parts</b>	16 parts	<b>Arpeggiator</b>	Preset: 128, User: 128	<b>Power Consumption</b>	17 W
<b>Wave Memory</b>	64 M bytes (16-bit linear equivalent), Waveforms: 1,228	<b>Rhythm Pattern</b>	Preset: 256 (32 groups), User: 256 (32 groups)	<b>Dimensions</b>	[S] 1,050 (W) x 358 (D) x 109 (H) mm, 41-3/8 (W) x 14-1/8 (D) x 4-5/16 (H) inches [S88] 1,408 (W) x 455 (D) x 151 (H) mm, 55-7/16 (W) x 17-15/16 (D) x 6 (H) inches
<b>Preset Memory</b>	Patches: [S] 640 + 256 (GM2) / [S88] 648 + 256 (GM2), Rhythm Sets: 32 + 9 (GM2), Performances: 64	<b>Chord Memory</b>	Preset: 64, User: 64	<b>Weight</b>	[S] 12.5 kg / 27 lbs 9 oz [S88] 29.5 kg / 65 lbs 1 oz
<b>User Memory</b>	Patches: 256, Rhythm Sets: 32, Performances: 64	<b>Display</b>	320 x 240 dots, four-shade graphic LCD (QVGA)	<b>Accessories</b>	Quick Start, Owner's Manual, Sound/Parameter List, Sample Data (Audio) CD, CD-ROM (Editor), Power Cord
<b>Card Memory (SmartMedia)</b>	Patches: 256, Rhythm Sets: 32, Performances: 64	<b>Pads</b>	16 pads, Velocity and Aftertouch sensitive	<b>Options</b>	Wave Expansion Board: SRX Series, Keyboard Stand: [S] KS-12 / [S88] KS-17, Pedal Switch: DP Series, Foot Switch: BOSS FS-5U, Expression Pedal: EV-5
<b>Data Format</b>	16-bit linear (File Type: .WAV/AIFF)	<b>Controllers</b>	Pitch Bend/Modulation Lever, Control Knobs x 4, Assignable Switch x 2, D Beam Controller		
<b>Sampling Frequency</b>	44.1 kHz (fixed)				
<b>Maximum Sampling Time</b>	<Internal memory (32 M bytes) only> mono: 360 sec. approx., stereo: 180 sec. approx. <with DIMM (288 M bytes)> mono: 54 min. approx., stereo: 27 min. approx.				
<b>Number of Samples</b>	User memory: 2,000 (maximum total approximately 16 M bytes), Card memory: 7,000 (128 M bytes SmartMedia)				
<b>Sequencer</b>	<Tracks> Phrase tracks (16 MIDI channels per track): 16, Pattern track (16 MIDI channels per track): 1, Tempo track: 1, Beat track: 1 * The Pattern Track can hold up to 100 patterns.				

\*1 If the maximum DIMM expansion is installed, only two SRX slots will be available.

Fantom-S88 Rear Panel



Fantom-S Rear Panel



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Roland®

FANTOM-S



# Fantom-S



Fantom-S



Fantom-S88

# The Perfect Marriage of Sampling and Synthesis.

The Fantom-S Series is more than just a workstation with sampling. It's a complete solution for professional music production. With seamless integration of audio and MIDI, new "Skip Back Sampling," a Dynamic Pad Bank and USB, the 61-note Fantom-S and 88-note Fantom-S88 have everything to take your music from idea to completion. The workstation has evolved into a digital studio, and it's called the Fantom-S Series.

Advanced music production studios with seamless integration of audio and MIDI

All-new Patches and Rhythm Sets expandable via 4 optional SRX-Series boards

Professional sampling with realtime timestretch and .WAV/AIFF compatibility

New Skip Back Sampling\* continuously records your performance

New Dynamic Pad Bank with 16 velocity-sensitive pads for easy sample triggering

3 MFX processors, plus dedicated reverb, chorus and mastering processor

4 Line outputs, stereo Line input, 24-bit S/PDIF digital output and USB port

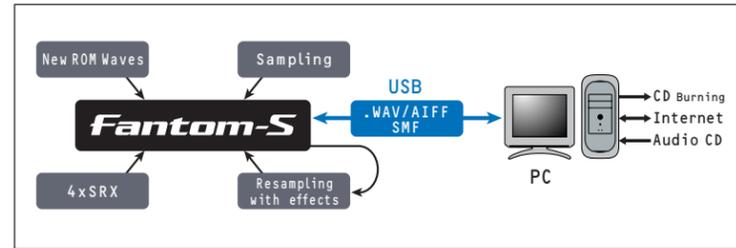
\*Skip Back Sampling function patent pending.



**Fantom-S** **Fantom-S88**  
COSM V-LINK MIDI2

# A Revolutionary Music Production Tool.

Whether you prefer working with audio, MIDI or both, Roland's new Fantom-S Series offers an elegant and musical production environment with everything you need. Start with an expandable stereo 4-Tone synthesis engine with all-new Patches and Rhythm Sets. Then add your own sounds with the Fantom-S/-S88's unique user sampling functions. Now put it all together using the programmable Arpeggiator and sequencer, resample your entire composition and export the audio to a computer. There has never been a faster way to make music!



## Fresh Sounds for Your Next Hit

Roland keyboards are known for great sounds, and the Fantom-S Series is no exception. Both models feature a brand-new 64MB wave ROM with hundreds of stereo-sampled waves. The result is an entirely new set of Patches and Rhythm Sets that cover everything a modern composer needs. The drum kits, in particular, are exceptional, as are the new bass sounds, leads and pads. All of the Patches have been expertly programmed for maximum expression. Try the acoustic guitar Patches if you need proof!

## Complete Audio/MIDI Integration

The idea behind the original Fantom was to keep the music flowing. So for the Fantom-S/-S88, a strong emphasis was placed

on the way audio and MIDI are integrated. The result is a fluid environment in which both worlds can come together as one. Audio can be sampled using the stereo analog inputs or imported via USB (.WAV/AIFF formats only). It can then be integrated directly as a synth waveform or sequenced alongside MIDI tracks. And if you change tempo, the Fantom-S/-S88 will even timestretch your phrases automatically!

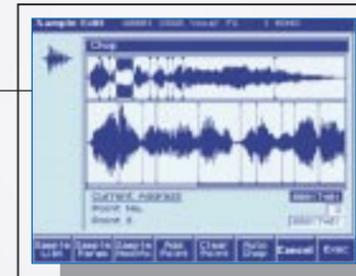
## Professional Sampling and Editing

When it comes to sampling, the Fantom-S Series is hard to beat. To start, both models feature a generous 32MB of sample memory, which can be expanded to a whopping 288MB\*—that's more than any other workstation keyboard and enough space to resample an

entire song! And editing samples is now easier than ever, thanks to a large 1/4 VGA display with helpful graphic icons including full waveform editing with zoom capabilities.

The Fantom-S/-S88 is also the first instrument to feature Roland's new *Skip Back Sampling* technology. This function continuously records your performances "behind-the-scenes" so you'll never lose a great idea. (The audio captured can be truncated based on musical beats.) Skip Back Sampling also makes for an easy way to resample any realtime knob and controller tweaks—another Roland first! And with 16MB of flash RAM and optional SmartMedia storage, saving your samples is ultra-convenient.

\*Requires optional DIMM memory. 288MB possible only in "2x SRX Mode". When using four SRX expansions, sample memory can be expanded to 192MB maximum.



**Sample Edit (Chop) Window**  
Sampled waveforms are displayed graphically for quick editing, and can be automatically divided into 16 "slices" using the Chop function.



**User Programmable LFO**  
Similar to a Step Modulator, this function allows you to program cyclic modulation (such as filter cutoff, pitch, etc.) using 16 steps.



**Dynamic Pad Bank and Patch Play Window**  
The screen is divided to show you the currently selected Patch for the keyboard and the currently selected Patch for the Dynamic Pad Bank.



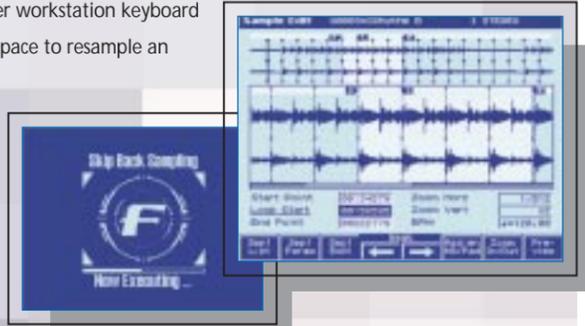
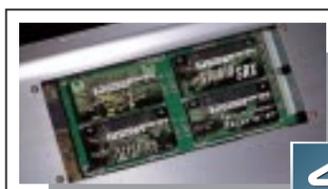
## New Dynamic Pad Bank

One of the Fantom-S/-S88's coolest additions is the Dynamic Pad Bank, which features 16 velocity-sensitive pads for programming drums and triggering phrases. These time-tested rubber pads not only feel great, but they also make sequencing drum patterns more natural and fun. Of course, the pads can also be used to trigger audio phrases and RPS patterns, making the Dynamic Pad Bank a great way to create phrase-based music quickly—especially when combined with Skip Back Sampling.

## USB Sample Exchange

The Fantom-S Series makes importing samples from a PC or Mac simple, thanks to a built-in USB port. Just browse your computer's hard drive for .WAV and AIFF files, and import the sounds you want using simple drag-and-drop commands (the Fantom-S/-S88 will appear on your computer as a hard drive). Now the audio can be used as a synth waveform or even assigned to the Dynamic Pad Bank for sequencing. Likewise, you can also export a fully mastered song to your computer for burning CDs or MP3 creation.

**Expansion Slot**  
With room for up to four SRX-Series Expansion Boards, the Fantom-S/-S88 can be customized to suit musical applications from orchestral sounds to dance music.



## SRX Series WAVE EXPANSION BOARD

### Roland's Premier Sound Library

The SRX-Series is Roland's next-generation sound library for "SRXpandable" instruments like the Fantom-S/-S88. With a strong focus on quality, each 64MB-equivalent expansion is loaded with sounds for all types of applications and genres. And with nine titles to choose from and more on the way, there's an SRX expansion that's right for you.

SRX-01



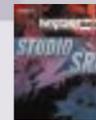
Dynamic Drum Kits

SRX-02



Concert Piano

SRX-03



Studio SRX

SRX-04



Symphonique Strings

SRX-05



Supreme Dance

SRX-06



Complete Orchestra

SRX-07



Ultimate Keys

SRX-08



Platinum Trax

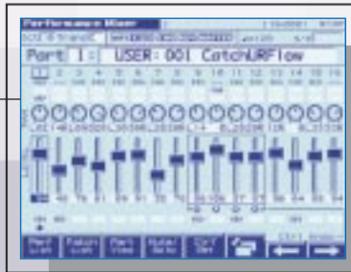
SRX-09



World Collection



# A New Level of Expression.



**■ Performance Mixer Window**  
Make adjustments to a multitimbral Performance like track level, panning and effects sends.



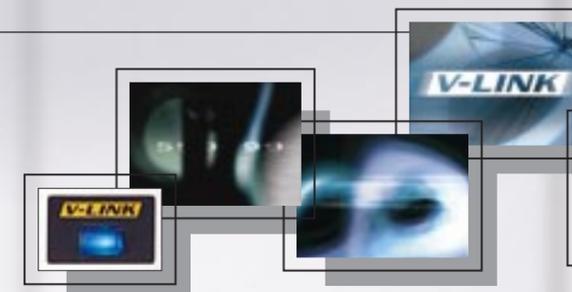
**■ Layer View Window**  
Here you can view up to four multitimbral parts at once, making it easy to select Patches and set key ranges when creating splits and layers.



**■ D Beam**  
The D Beam Controller uses an infrared beam of light to send various controller changes depending on the function selected (Solo Synth, Pad Trigger, Assignable).  
\*D Beam light has been colored for illustrative purposes only. Actual infrared light beam is invisible.



unique Progressive Hammer-Action Keyboard and Sympathetic Resonance effect). You can even open and close the lid at various angles using an exclusive graphic editing screen.



**■ V-LINK**  
With V-LINK, musicians can trigger and control Edirol video products from the Fantom-S/S88's keyboard and pads using a single-cable connection.

## Streamlined Mixing and Performance Setup

To make mixing easier, Roland gave the Fantom-S/S88 a new Mixer View screen. Similar to the look and feel of a digital mixer, this screen offers intuitive graphic editing of a multitimbral Performance—allowing you to change track levels, panning and effects settings using four front-panel knobs. Now mixing your song feels less like a workstation and more like a studio! And setting up the Performance is just as simple, thanks to a new Layer View screen with quick graphic editing of layering and key zones.

## The Word on Effects

The Fantom-S/S88 is loaded with pro-quality effects to take your song all the way to final mixdown. To start, you get 24-bit

reverb and a dedicated chorus processor that can also create delay. Up to three multi-effects processors are available in Performance mode, giving you everything from COSM® Guitar Amp Modeling and Lo-Fi processing to tempo-synced delay, Slicer, Isolator, multiple effects chains and more. (In Performance mode, all three MFX can be configured for parallel or serial use.) A dedicated mastering processor lets you add the finishing touch with multi-band compression. Combined with the resampling feature, the Fantom-S/S88's effects processors can be used to create entirely new sounds.

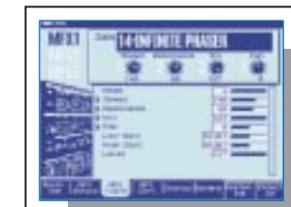
## Programmable Arpeggiator and D Beam

The original Fantom's Arpeggiator and Rhythm Generator proved to be very popular with musicians for their ability to create exciting riffs and motifs. For the Fantom-S Series, Roland has

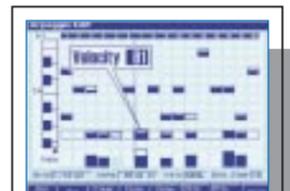
taken this function to the next level by adding full programmability. Now you can graphically program your own 32-step patterns with individual velocity value bar graphs for each step! Use the Arpeggiator to create anything from wild synth patterns to bass lines and chord comping, or add realistic-sounding drums with the Rhythm Generator. And with the Fantom-S/S88's D Beam Controller, you can adjust controllers like filter cutoff or volume, trigger pads, or even play melodies using an infrared beam of light.

## Workstation or Stage Piano?

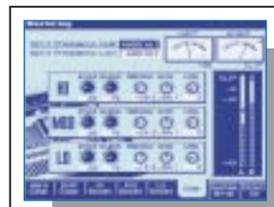
Choose the Fantom-S88 and you'll get both. Simply press the Piano Mode button, and this 88-note workstation will automatically call up an acoustic piano Patch, which can be played as expressively as a concert grand (thanks to Roland's



**■ MFX Edit Window**  
Use this screen to edit the four major parameters of an MFX processor. Simply twist the Fantom-S/S88's knobs and the changes are reflected onscreen. More detailed parameter editing is also available.



**■ Programmable Arpeggiator**  
Create your own arpeggiator patterns by inputting notes in the 32-step grid. Parameters such as pitch, velocity and note duration can be specified for each step.



**■ Mastering Window**  
The Fantom-S/S88's mastering processor offers split-frequency compression. Here you can adjust the compressor settings for each frequency band (Hi, Mid, Lo).

