

SP-700

16 BIT SAMPLE PLAYER





The Sounds of Excellence



The new SP-700 Sample Player is the first Roland product of its kind. It has sophisticated editing capabilities and allows you to play the sample libraries available for the acclaimed Roland S-770/750 samplers. The SP-700 features 16-bit linear stereo sampling at 48kHz and has two SCSI ports, allowing you to take advantage of CD-ROM libraries and other storage media. The sizable eight megabyte internal memory is user-expandable to 32MB for



processing large amounts of sample data. The SP-700 has extensive sound editing capability and it offers much more than high-quality sample playback—giving you all the versatility you need for studio sound creation and on-stage performance. With the SP-700, you can load new samples while playing others and control sound parameters in realtime with MIDI devices. For musicians looking for the best sound quality, the SP-700 is a perfect choice.

Multiple Sound Libraries Increase your Creative Potential

Built-in SCSI Interface

The SP-700's two SCSI ports can read wave data from connected magneto optical disk units, CD-ROM players and external hard disk units, giving you an endless selection of sounds to choose from.

Access CD-ROM Libraries

Connect a CD-ROM player to the SP-700 and you can access several libraries of high-quality sounds available on CD-ROM. These libraries are produced by Roland L-CD Sample Archives, as well as third-party developers including PROSONUS' RS-1 and Optical Media International's USV-3. All of these libraries provide 16-bit stereo-sampled sounds so you can take advantage of the SP-700's superb performance. Plus, in addition to sample libraries created for the Roland S-770/750, the SP-700 can load, read and fully edit Akai S-1000 and S-1100 samples!

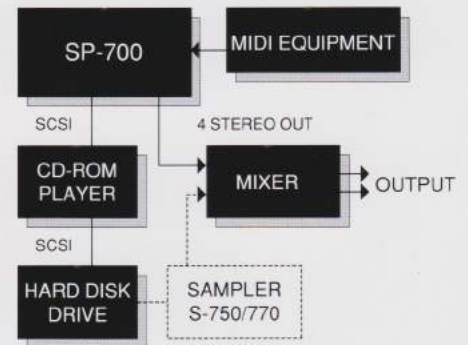
The SP-700 package includes the SV-SP70-01 Library Preview Disc, a condensed CD-ROM demo containing 62 Volume files, 129 Performances, and 400 Patches selected from the Roland CD-ROM libraries.



Saving/Loading and Sharing Data

You can save edited samples or data that you use frequently to a hard disk or magneto optical disk unit. Since the SP-700 can also be daisy-chained, sample wave data can be shared with

the S-770's internal hard disk or an external hard disk if you use the S-750. This makes the SP-700 an ideal add-on sound module for S-770 and S-750 samplers. Upcoming software releases will offer even more editing options, such as computer-based wave data editing.



CD-ROM LIBRARIES



L-CD701 "Rhythm Section Vol. 1"

The L-CD701 contains 107 Volumes, 229 Performances, and 1,009 Patches of essential rhythm section sounds. This wide variety of hot sounds includes incredible acoustic pianos that make use of 16Mbyte memory as well as electric pianos, synth sounds, drums, percussion, basses, and guitars.



L-CD702 "Orchestral Family Vol. 1&2"

The two CD-ROM discs of the L-CD702 include 121 Volumes, 322 Performances, and 1831 Patches, making up a grand total of 1.2 Gigabytes of data. The best material from Roland sampling masters and selected third-party complementary sounds have been assembled into this collection that covers all the instruments and techniques essential for any type of orchestration—jazz, pop or classical.



USV-3 "UNIVERSE OF SOUNDS"

Produced by Optical Media international, the USV-3 features a comprehensive library of superb-quality orchestral sounds as well as SFX. Ranging from strings to synths to brass, every sound was recorded for the highest possible sound quality.



DS-60711 "DRUMSCAPES"

In conjunction with Roland, Northstar has produced the DS-60711 CD-ROM sound library. It is an extensive collection of studio-quality drum sounds that were sampled, transferred, edited and programmed entirely in the digital domain for the highest possible sound quality. The library also includes a selection of real-life drum loops with beats and fills played real drummers. The DS-60711 contains 61 Volumes, 171 Performances and 598 Patches.



CS0CD02 "Foundation" by Club50

The CS0CD02 from Club50 offers numerous instrument sounds to accommodate many musical categories. The sounds include: those optimized for creating basic rhythm sections, such as guitars, drums bass and keyboards; acoustic instruments like brass, winds strings and voice; fretted and ethnic instruments such as banjos and sitars; percussion and sound effects. The CS0CD02 has 122 Volumes, 366 Performances, and 1022 Patches.



RS-1 "Orchestral Strings"

Created by PROSOUNDS, the RS-1 is a comprehensive CD-ROM library featuring critically acclaimed orchestral string sounds performed by a major philharmonic orchestra and recorded by a former Los Angeles Philharmonic recording engineer. Long and short samples are included to optimize the sampler as both a sound source for studio recording and a multitrack sound module controlled by a sequencer, respectively.

Performance Equal to the Roland S-Series Samplers

Advanced Digital Processing

The SP-700's sample playback delivers incredible impact and dynamic range as a result of the advanced digital techniques used. Stereo samples play back using a 16-bit linear wave data format with digital-to-analog conversion at 18-bit. All internal signal processing is conducted on a 24-bit linear basis, and you'll appreciate the increased signal processing speed. The SP-700 high performance level allows you to modify sample data without compromising the fidelity of the original sample.

Immense Memory

The SP-700 is shipped with eight Megabytes of internal memory (RAM) and it can be expanded to an incredible 32MB. This capacity allows the SP-700 to read memory intensive multi-instrument setups and play them back instantly.

Playback Time

Internal 8MB memory	90.9 sec.
Expanded 32MB memory	363.8 sec.

Fixed-rate DI Sampling

The SP-700's 48kHz fixed-rate sampling uses proprietary DI (Differential Interpolation) technology to smooth-out tiered or "staircase" sample waveform shapes. DI performs high-speed calculations and interpolates additional data points between sample points so that the refined wave shapes closely resemble the original waveform. DI technology ensures accurate tonal consistency over a wide range of pitches and full 18-bit D/A conversion quality.

High-end Analog Circuitry

The SP-700 utilizes the highest-quality analog processing components available. Component selection was based on extensive listening evaluations and

reliability ratings. Roland engineers used discrete circuits wherever possible to ensure sonic accuracy and excellent sound quality.

Extensive Multitimbral Capability

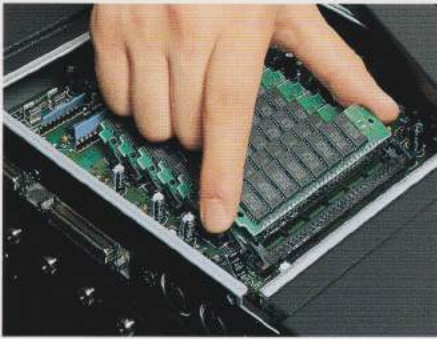
With 24-voice polyphony and 32-part multitimbral capability, the SP-700 can easily handle complex song arrangements. Your compositions will be thick and lush with full instrumentation.

Four Sets Stereo Out

The SP-700 features a 4 Stereo Out mode, enabling the eight individual outputs to be used as four sets of stereo outputs. This feature allows you to take advantage of the SP-700's stereo samples and multitimbral capability.



Synth-like Editing Maintains Your Creative Flow



Internal Memory Expansion

The SP-700's eight megabyte memory can be expanded to a maximum of 32MB with user-installable four MB SIMMs in increments of eight MB.



Advanced Editing Functions

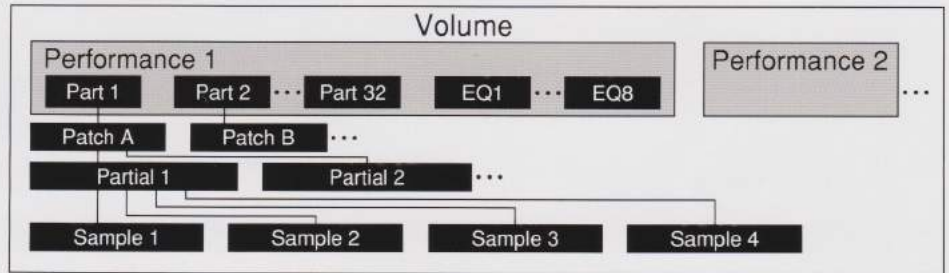
Like top-of-the line professional synthesizers, the SP-700 enables you to edit wave data using Time Variant Filters (TVFs), Time Variant Amplifiers (TVAs) and the Sample Mix Table (SMT). The SP-700's high-performance TVFs incorporate multimode (High Pass, Band Pass and Low Pass) filtering, cutoff frequency, resonance that goes into self-oscillation, and LFO (Low Frequency Oscillator) modulation.

Sample Mix Table

Using the SMT you can combine up to four separate samples to create new sounds and assign individual pan positions for each sample. You can also control layering and velocity switching/mixing and define the fade area for creating velocity crossfades. Samples that have been combined can also be edited by adjusting TVF and TVA parameters.

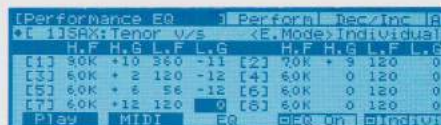
Wave Data Architecture

The SP-700's sound data organization structure is identical to the S-770/750 architecture.



Digital 2-Band EQ

The SP-700 features digital 2-band EQ that can be inserted just before each of the eight outputs, and can be configured as four stereo EQs or eight independent EQs. This EQ allows broad tonal contouring, with the low band covering 16Hz to 600kHz and the high band ranging from 750Hz to 18kHz. The memory in the EQ section stores 64 different settings and 1 setting per Performance.



Features for Easy Operation

- The SP-700's large LCD (240 x 64 dots) and rotary encoder/cursor make it simple to perform any operation.
- The SP-700 allows you to load new sample data while playing currently loaded samples. In realtime, you can control sound parameters with an external MIDI device to enhance your performance.
- You can conveniently edit major parameters such as EQ, Pan and TVF for a Patch assigned to a Part in Performance mode, without having to enter Patch mode.
- The Listen Delete function keeps track of all MIDI operations, noting channels not accessed during live performance or sequencing. This information allows you to delete unused samples and realize the full potential of available RAM.
- With the Volume/Recover Backup Memory, you can store up to sixty-four Performance parameters, or one Volume in internal memory. Then, you can load them quickly as sample data—cutting down on valuable load time.
- S-770/750 owners will appreciate Multiple Select which allows several files to be "marked" in the Disk menus, then loaded or saved with one command.



SP-700

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Specifications

Max. Polyphony: 24 voices
Sampling Method: Fixed rate DI (Differential Interpolation) processing
Sampling Frequency: 48kHz
Data Format: 16-bit linear
Signal Processing: D/A Conversion 18-bit
Internal Processing 24-bit linear
20Hz to 20kHz (± 3 dB)
Frequency Response:
Residual Noise Level (IHF-A Type):
Stereo Out A (or Individual Out 1-2) -85dBm or less (all volume controls: MAX)
Stereo Out B-D (or Individual Out 3-8) -85dBm or less
Internal Memory: 8Mbyte (expandable to max. 32Mbyte)
Controls:
Knob Volume
Dial Value/Cursor
Switches/Buttons Performance, Patch, Partial, Disk, System, Jump, F1, F2, F3, F4, F5, Exit, Command, Name, List, Page (Previous, Next), S1/Dec, S2/Inc, \uparrow \downarrow \Rightarrow \Leftarrow , Mark, Home, Shift, Power

Display: 64 x 240 dot backlit LCD
Indicators: Stereo Out A-D (or Individual Out 1-8), SCSI x 2, MIDI In/Out/Thru, Phones
Output Standards:
Output Levels
Stereo Out +7dBm (1 voice)
+19dBm (16 voices)
+1dBm (1 voice)
+13dBm (16 voices)
Individual Out
Output Impedance 1.6 k Ω
Dimensions: 482(W) x 389(D) x 88(H)mm (19" x 15 $\frac{5}{8}$ " x 3 $\frac{1}{2}$ ")
Weight: 6.5Kg (14 lb 10 oz)
Accessory: SV-SP70 Library Preview Disc
SIM8 Memory Expander (4Mbyte SIMM)
MO-7 Magneto Optical Disk Unit
EPM-CS1 Magneto Optical Disk

@0dBm=0.775 Vrms

*Specifications and appearance subject to change without notice.



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