

# AKAI PROFESSIONAL SAMPLER CATALOG / 1989

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MIDI STEREO DIGITAL SAMPLER

S1000

S1000HD

S1000PB

MIDI DIGITAL SAMPLER

S950



**AKAI**  
*professional*

**The Most Powerful Digital Sampler—With Unsurpassed Natural Sound Clarity, Extensive Digital Editing Functions, and a Powerful Graphic Display and Intuitive Operating System**

**Outstanding 16 Bit CD Sound Quality for Extraordinarily Realistic Sounds**

The S1000 delivers the highest possible sound quality attainable with its 44.1kHz sampling rate and 16 bit stereo sampling. Through the use of 24 bit internal processing and by careful isolation of the digital and analog circuitry, the S1000 can accurately reproduce acoustic instruments with all their authentic ambience and original spatial cues. You now have the capability to generate sounds that are indistinguishable from their acoustic counterparts. And the S1000 even gives you control over the expressive nuances as with an acoustic instrument.

**A Large Graphic Display and an Ergonomically Designed Front Panel Allow Smooth and Fast Control of Even Complex Editing**

The first thing you see on the S1000 is the magnificent blue and silver graphic display screen. It is more than just aesthetically pleasing though. This large and informative 40 character by 8 line display is the "window" through which the extensive capabilities of the S1000 are quickly accessed. Information and control parameters are stored on screen displays or "pages". Any of 38 different pages may be instantly searched and recalled using the **Function Keys** and **Soft Keys** so there is no need to constantly refer to the manual. And graphic images are used to quickly convey information whenever "a picture tells a thousand words" and makes understanding easier. While sampling a sound, a graphic representation of the signal amplitude envelope is displayed in real time allowing you to utilize the widest possible dynamic range on every recording. There is even a **Zoom In/Zoom Out** function that lets you examine precisely as small or as large a section of sample wave data as you wish for easy loop editing. The tremendously effective "page system" gives you access to an enormous number of editing and control parameters all from a surprisingly simple control panel. And careful attention was even paid to the design of the control panel—the keypad uses an ergonomically designed

sloping pad, there are front panel phone jack and XLR inputs, and there are large rotary cursor and data dials. So operating the S1000 will be as much of a pleasure as listening to it.

**Extensive Digital Editing Capabilities Allow Unsurpassed Sound Shaping and Sound Creation.**

The S1000 gives you tremendous power to modify and alter sampled sounds and the ability to even create entirely new instruments from existing samples. Editing can be done on a stereo sample, a mono sample, or on individual left and right segments of a stereo sample. The S1000 offers up to **eight loop points** so the loop can be dynamically varying to avoid the stagnant repetitive sound often associated with sample loops. An **Auto-looping** function makes finding the right loop points a breeze. And **Crossfade Looping** blends the beginning and ending loop points for smooth seamless loops. Loops can be played until the note is released or with the loop in the release while the envelope decays. The unique **Join function** gives you the powerful ability to **Splice** or **Crossfade** between two samples to create an entirely new sounding sample. Thus you can perform Frankenstein-like "cloning effects" such as joining the powerful scrape of a rosin bow violin to the mellifluous sound of a sweet soprano. This powerful process gives you the ability to create new ethereal sounding instruments that send tingles up the spine.

The S1000 offers numerous other sample editing features including standard synth waveforms which can be mixed with acoustic samples, **LFOs** with desync capability for chorusing effects with a different frequency on each voice, **-18dB/oct Sweepable Digital Lowpass Filters**, and two **ADSR** envelopes per voice for filter modulation, amplitude shaping, or pitch bending. Swirling pitch shifting effects are easily created using the **Beat** frequency offset and identical sounds in different keygroups. And by utilizing the output channel **Offset** function, sounds in various velocity zones can be shifted to different outputs creating dynamically shifting spatial location. These are just a sample of the many parameters you can control and effects you can create with the flexibility and power of the AKAI S1000.

**Experience the 4th Dimension of Expression with Velocity Zones**

The S1000, like most samplers, allows you to split the note range into keygroups for multisampling capability. From here the S1000 opens up a new dimension in real time expression with **Velocity Zones** which allow you to assign up to four different samples per keygroup that

can be crossfaded or switched between depending upon the velocity. This gives you a vast new range of expressive control directly from your keyboard or other controller. The selected samples, keygroups, and velocity zones settings are stored together as a **program**. Each program can be set to its own MIDI channel, voice number, keyrange, octave shift, output assignment, and voice priority allocation.

**A Step Beyond Mere 16 Voice Multi-Timbral Capability**

The S1000 with its 16 voice capability becomes extraordinarily powerful when used as a multitimbral instrument. The S1000 can hold up to 200 sampled sounds, 100 programs, and 400 combinations of sampled sounds, programs, and keygroups. Thus an incredible selection of instruments can be instantly accessed for playback. This **hyper-timbral** capability of the S1000 means that not only can up to 16 different voices be played, but different samples within each program can be played depending on where the notes are in the key range and depending on the note velocity. Programs may even be assigned a stereo output level, pan setting, individual channel output assignment, and the velocity zones may be adjusted for relative loudness and filter settings. The S1000 allows you to use its 16 voices and 8 individual outputs in the most musically effective way.

**Expand Memory to 8 Megabytes, Interface to Hard Disk Drives, and Access a Huge Growing Worldwide Software Library.**

When you purchase an S1000, you are investing in much more than just a machine. You are investing in a digital sampler with the ability to expand to as large and powerful a system as you desire. The S1000 comes with a standard 2 Megabytes of RAM that gives you close to 24 seconds of stereo sampling time. The RAM can be easily expanded up to 8 Megabytes with the addition of up to 3 EXM005 memory expansion boards. The S1000 also gives you the ability to expand your system hardware with a variety of optional interface boards. The **IB-102 ATARI/SUPRA™ Hard Disk Interface** allows connection to Atari or Supra hard disks, the **IB-103 SCSI Interface** connects to SCSI hard disk drives, and the **IB-104 Digital Audio Interface** allows direct digital transfers of data from compact disk and DAT players. The 2DD/2HD 3.5 inch disk drive allows you to play any of the many S900 disks (sounds and loop points) or use density disks for efficient data storage. The S1000 gives you compatibility and access to a continuously expanding worldwide software library.



# S1000

MIDI STEREO DIGITAL SAMPLER



< SPECIFICATIONS > • Sampling method: 16 bit linear sampling • Sampling frequency: 44.1kHz/22.05kHz switchable • Sampling time: 23.76sec. (Mono, 44.1kHz sampling) 47.52sec. (Mono, 22.05kHz sampling), 11.88sec. (Stereo, 44.1kHz sampling), 23.76sec. (Stereo, 22.05kHz sampling) \* Up to 4x the stated playback time with up to 3 EXM005 Memory Expansion Boards • Frequency response: 20Hz ~ 20kHz (44.1kHz sampling rate), 20Hz ~ 10kHz (22.05kHz sampling rate) • Internal memory: 2M bytes (Up to 8M bytes with 3 optional EXM005 expansion memory boards) • Maximum number of samples: 200, maximum number of programs: 100, maximum number of combined samples + programs + key groups: 400 • Voices: 16 • Pitch shift method: interpolation & Decimation digital operation (operating precision 24 bit, custom LSI used) • Pitch shift range:  $\pm 2$  octaves • Pitch shift resolution: 1 cent • Filter section: Variable frequency digital lowpass filter (-18dB/Oct), Envelope generation: 2 (digital operation) • Disk drive: 3.5 inch 2HD/2DD switchable • Display: 320 character display with large graphic function display • Front panel connectors: Rec In Cannon  $\times 2$ , (L ch, R ch), PHONE  $\times 2$  (L ch, R ch), input level (switchable balance/gain) HI: -58dBm/MID: -38dBm/LOW: -18dBm • Rear panel connectors: STEREO OUT  $\times 2$  (L ch, R ch)/nominal output level -3dBV (center position pan), Output impedance 600ohms, ASSIGNABLE MIX OUT  $\times 8$ /nominal output level -3dBV, Output impedance 600 ohms, EFFECT SEND  $\times 1$ /nominal output level -3dBV, Output impedance 600 ohms, STEREO HEADPHONE  $\times 1$  EFFECT RETURN  $\times 2$  (L ch, R ch)/input level -3dBV, Input impedance 10k ohms, FOOT SWITCH  $\times 1$ , MIDI IN  $\times 1$ , MIDI OUT  $\times 1$ , MIDI THRU  $\times 1$ , Interface Board Slot  $\times 2$  • Dimensions: 482.6(W)  $\times$  132.6(H)  $\times$  425.0(D)mm (EIA 3U rackmount) • Weight: 9.5kg • Accessories: Sound Library SL1001-SL1004.



**A Large Capacity 40 Megabyte  
Hard Disk Version of the S1000  
which Provides Instant Access to  
a Multitude of Sounds**

The stiff competition in today's music world demands that you not only have the best sounding sampler but that you also have one that lets you *access the sounds FAST...* The S1000HD combines all of these features and puts you at the leading edge in digital sampling technology. Its 16 bit resolution and 44.1kHz sampling rate give you unsurpassed sound quality. The S1000HD comes with a standard 2 Megabytes of RAM which can be easily expanded up to 8 Megabytes by adding

up to three optional EXM005 Memory Expansion Boards. The S1000HD has all of the sampling and editing functions of the S1000, the large graphic display, and the powerful intuitive system operation. The S1000 by itself is already tremendously powerful. And with the addition of an internal 40 Megabyte hard disk, it becomes a remarkable high performance machine. The hard disk gives you the ability to load and save sounds **500% faster** than on a regular 2HD disk drive. The ability to manipulate data so fast greatly facilitates editing and data management operations and thus provides increased control. The high speed and large storage capability of the S1000HD will save you time and give you additional flexibility which make it easy to use the S1000HD both during live performance on stage and in the studio. The high quality sampling sound of the S1000HD combined with the intuitive operating system and large data capacity of the hard disk make the S1000HD one of the highest performance digital samplers available.

**A Playback-Only Version of the  
S1000 Augmented by the AKAI  
Studio Quality Sound Library and  
the S900 Sound Library**

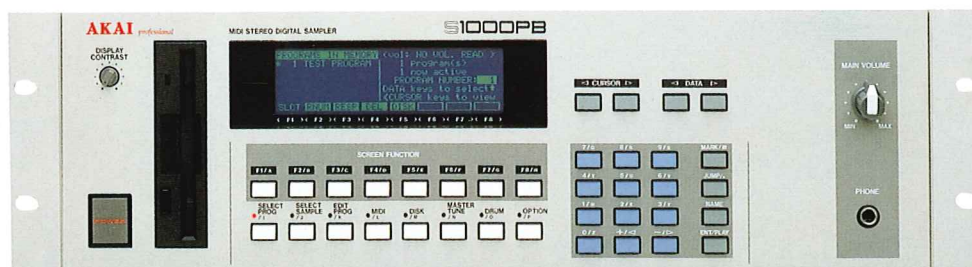
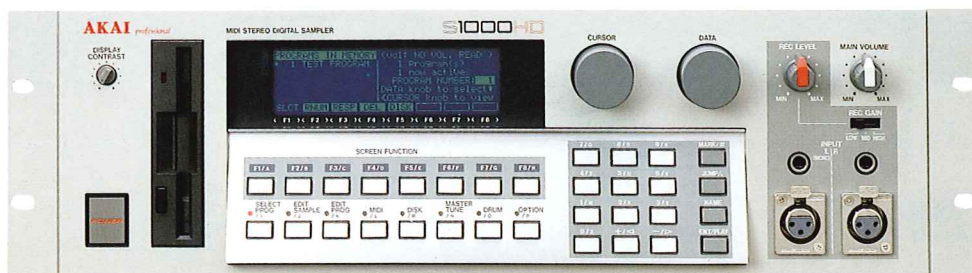
The art of Sampling requires more than just talent. To make the highest quality samples of traditional acoustic instruments such as strings, winds, brass, and ethnic instruments requires that you have access to a professional recording studio, top notch musicians and ensembles, and instruments to record. It is also difficult for many individual musicians to justify the time and expense required to make high quality samples. Therefore when judging a sampling instrument, you must look beyond its mere specifications and also consider the quality and size of the sound library available for it.

The AKAI S1000 sound library was produced in world-class recording studios such as at the "AIR STUDIO" in London which is known for its excellent acoustics. These first-class studio quality samples, which cost thousands of dollars to pro-

duce, consist of a complete selection of acoustic instrument samples that utilize the maximum capabilities of the AKAI S1000. And there is also an extensive worldwide library of excellent sounds for the S900 which can be played on the S1000PB. These sounds can be utilized as they are, or used as a starting base for editing with the S1000PB to create your own unique programs.

The S1000PB has all of the same impressive specifications as the S1000 but without the input and recording capability. The S1000PB uses the same intuitive operating system as the S1000, the paging system with **Function Keys** and **Soft Keys**, and special data buttons and cursor buttons for smooth control operation. The large graphic display allows you to view information in real time and enables you to work efficiently and precisely. There are also standard synth waveforms which can be blended with sampled instruments to create those popular contemporary sounds. The standard 2 Megabytes of RAM can be expanded to 8 Megabytes by adding up to 3 EXM005 Memory Expansion Boards. You can also expand with hardware options such as the IB-102, IB-103 Hard Disk Interface Boards, the IB-104 Digital Audio Interface Board.

The S1000PB gives you fast and easy access to high quality sample playing and can be used alone, or as a 2nd sampler offering the best cost/performance solution to expanding your sampling system.

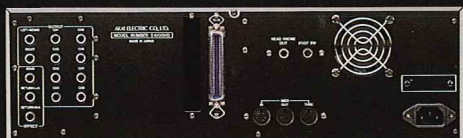


# S1000HD

MIDI STEREO DIGITAL SAMPLER

# S1000PB

MIDI STEREO DIGITAL SAMPLER



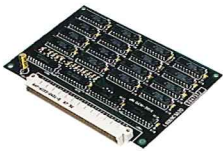
< SPECIFICATIONS > • 40 Megabyte internal hard disk • Front Panel Connectors: REC IN XLR x 2 (L ch., R ch.), PHONE x 2 (L ch., R ch.) • Rear Panel Connectors: STEREO OUT x 2 (L ch., R ch.), EFFECT SEND x 1, ASSIGNABLE MIX OUT x 8, STEREO HEADPHONE x 1, EFFECT RETURN x 2 (L ch., R ch.), FOOT SWITCH x 1, MIDI IN x 1, MIDI OUT x 1, MIDI THRU x 1, SCSI Interface Port, Interface Board Slot • DC Fan Installed for Hard Disk • Dimensions: 482.6(W) x 132.6(H) x 425(D) mm (EIA 3U rackmount) • Weight: 11.5kg • Accessories: Sound Library SL1001 - SL1004



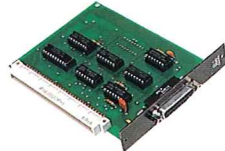
< SPECIFICATIONS > • Rear Panel Connectors: STEREO OUT x 2 (L ch., R ch.), EFFECT SEND x 1, ASSIGNABLE MIX OUT x 8, STEREO HEADPHONE x 1, EFFECT RETURN x 2 (L ch., R ch.), FOOT SWITCH x 1, MIDI IN x 1, MIDI OUT x 1, MIDI THRU x 1, Interface Board Slot x 2 • Dimensions: 482.6(W) x 132.6(H) x 425(D)mm (EIA 3U rackmount) • Weight: 9.5kg • Accessories: Sound Library SL1001 - SL1004

## OPTIONS

FOR S1000



● EXM005 MEMORY EXPANSION BOARD



● IB-102 ATARI/SUPRA HARD DISK INTERFACE BOARD



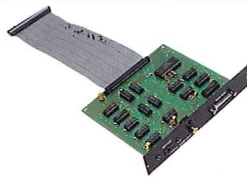
● IB-103 SCSI HARD DISK INTERFACE BOARD

● IB-104 DIGITAL AUDIO INTERFACE BOARD

FOR S950



● EXM006 MEMORY EXPANSION BOARD



● IB-105 ATARI-SUPRA/CD-DAT INTERFACE BOARD

FOR S1000/S950



● BL1000 3.5 INCH 2HD BLANK DISK



● BL350 3.5 INCH 2DD BLANK DISK



**ME35T**  
AUDIO/MIDI TRIGGER

Converts audio signal pulses (such as those generated by electronic drum pads, drum sequencers, or a microphone) into MIDI signals. By using the ME35T to drive a sampler or synthesizer you can create a variety of rhythm and percussion sections.



**MX76**  
MIDI MASTER KEYBOARD

The MX76 is a weighted piano touch 76 note MIDI master keyboard. You can split the keyboard into as many as four groups with each group having its own program parameters. The 40 character x 8 line LCD and quick parameter call functions give you superior performance control capability.



**XE8**  
MIDI DRUM EXPANDER

The XE8 has 16 internal "high-energy" drum sounds. By using IC memory cards you can expand the sounds to include a variety of drum and percussion sounds. Up to 32 programs may be stored. The XE8 can be used with a drum sequencer or as a sound generator for electronic drums pads and will generate up to 8 stunning polyphonic drum sounds at a time.



**MPC60**  
MIDI PRODUCTION CENTER

The MPC60 is a powerful MIDI Digital Drum Sampler/Sequencer. The sequencer section has a 60,000 note capacity and 99 tracks. The superb sounding sampler has a 40kHz sampling rate and an 18kHz frequency response. The combined capabilities and high quality sound make this the ideal MIDI production center.

AKAI ELECTRIC CO., LTD.

Electronic Musical Instrument Div.

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■ For improvement purposes, specifications and design are subject to change without notice.