

ESI 2000

DIGITAL SAMPLER



The new ESI 2000 64 voice sampler is E-MU's most affordable sampler ever, giving you all of the professional features that you have come to expect from the leader in digital sampling at a breakthrough price. And the ESI 2000 still offers you the industry's most intuitive user interface, putting an incredible amount of power at your fingertips while keeping almost all functions just one or two button-pushes away. With its unbeatable combination of features, friendly interface and affordable price, the ESI 2000 sampler is clearly the best value on the market today.

▼ Exceptional Features

The ESI 2000 offers you professional features with 64-voice polyphony, up to 128 MB of sample RAM, 64 digital 6-pole filters (19 different types), and a host of powerful DSP capabilities including time compression and expansion, parametric EQ, and digital tuning. Creating your own samples is fast and efficient with the ESI 2000's easy-to-use sampling and editing interface. Sample editing tools include manual and automatic truncation, cross-fade looping, cut, copy, paste, normalization, and automatic correlation for easy looping. Add ten programmable trigger buttons for firing off grooves without having to use a keyboard, and you have an indispensable tool for all of your music and sound effects projects.

▼ Extreme Expandability

E-MU also offers you the optional ESI 2000 Turbo Board, giving you two additional stereo subouts, an effects stereo submix, two 24-bit stereo effects processors, and S/PDIF digital I/O for greater mixing and sampling flexibility. The Turbo Board effects section provides you with more than 30 effects and four stereo submixes (per processor), including high quality reverb, delay, chorus, flange, and even distortion algorithms. You can also upgrade your ESI 2000's sampling memory from the standard 4 MB all the way up to 128 MB using industry standard 72-pin SIMMs – that's over 25 minutes of mono sampling time at a sample rate of 44.1 kHz! And the ESI 2000's standard SCSI port not only gives you access to the thousands of sounds available on CD-ROM, but also allows you to save your sounds and presets to a wide array of storage media (hard drives, Zip, Jaz, etc.).

▼ Powerful DSP

The ESI 2000 has all the tools you need to meet any sample editing requirement:

- Stereo phase-locked time compression/expansion makes your samples longer or shorter without changing the pitch.
- Pitch change modifies the pitch of your samples without altering the length.
- Sample rate conversion gives you extra sampling time by changing the sample rate after the sound has been sampled.
- Doppler/pan effect provides you with complete control of the stereo field.
- Exciter adds life and crispness to your samples.
- Parametric EQ lets you adjust the overall tonal character of your samples.
- Transform multiply allows you to create new sounds by merging two sounds together, and then accentuating frequencies common to both and discarding uncommon frequencies – you've got to hear it to believe it!
- Cut, copy, paste commands are the basic editing functions for slicing and dicing your samples.
- Auto truncation saves you time by trimming the start and/or end of your sample.
- Crossfade looping virtually eliminates any clicks or pops in your looped samples.
- Audio scrub helps you find that perfect loop point.
- Auto normalize changes the gain of your samples to give you the best signal-to-noise ratio.
- Compressor reduces the dynamic range of your sample and gives your kicks and basses a punchier, tighter sound.

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▼ Key Features

- 64 voice polyphony for thick sequencing and layering.
- SCSI interface allows you to access thousands of sounds via CD-ROM and save your sounds to a variety of storage media.
- 4 MB of RAM, upgradeable to 128 MB with 72 pin SIMMs.
- 64 digital 6-pole filters with 19 different filter types, allow you to modify the sound of your samples and make them come alive.
- Over 1000 presets included on 2 CD-ROMs accessed via SCSI.
- 4 audio outputs (expandable to 8, plus a stereo-effects output and S/PDIF digital I/O with Turbo Option Board) for great mixing flexibility.
- User-friendly interface means you spend less time looking at the manual and more time creating great music.
- Optional dual stereo effects processors breathe life and depth into your samples.
- Compatible with Akai S-1100/1000 and E-MU E-IIIx, ESI-32, ESI 4000 and EMAX II libraries via SCSI, giving you access to thousands of sounds.
- 10 programmable front panel buttons for triggering samples quickly and easily without a MIDI controller.
- Powerful DSP and editing functions for customizing your sounds, including stereo phase locked time compression and expansion, parametric eq, digital tuning, manual and auto truncate, cross-fade looping, cut, copy, paste, normalization, and automatic correlation (for finding loop points).

Options:

6215 Turbo Option Kit

Controls:

Data Entry
Data Wheel Encoder
Increment/Yes and Decrement/No
Enter and Escape
10-key pad

Cursor Control:

Up, down, left, right

Disk Functions:

Drive select
Load bank
Save bank
Audition key

Trigger functions:

Trigger mode
10-key pad

▼ Specifications

▼ Display

20x4 backlit LCD

▼ Sound RAM

4 MB standard, expandable to 128 MB using standard 72 pin SIMMs

▼ Data Storage

1.44 MB floppy
50 pin SCSI interface for use with SCSI hard disks, CD-ROM, Zip, Jaz and MO drives

▼ Input and Output Resolution:

128x oversampling sigma/delta A / D conversion
Discrete 18 bit D / A converters

▼ Input Sampling Rates

22.05 KHz and 44.1 KHz (analog), 32 KHz, 44.1 KHz, and 48 KHz (via S/PDIF option)

▼ Output Sampling Rate:

44.1 KHz

▼ Signal to Noise:

> 90 dB (output)

▼ Frequency Response:

20 Hz - 20 KHz

▼ THD and Noise:

<.05%

▼ THD:

<.03%

▼ Output Level:

+10 dBu

▼ Output Impedance:

1000 ohms

▼ Stereo Phase

Phase coherent +- 1 degree at 1 KHz

▼ Audio Channels

64 mono channels, 32 stereo channels

▼ Digital Filters:

64 digital 6 pole filters with 19 types

▼ Inputs

MIDI in, stereo unbalanced 1/4" analog inputs, S/PDIF digital input (optional)

▼ Outputs

Four unbalanced polyphonic 1/4" analog outputs, MIDI out and thru, two more stereo outs plus stereo effects output and S/PDIF out (optional)

▼ Dimensions

Height: 3.4 inches/9 cm
Width: 17 inches/43 cm
Depth: 10.4 inches/26.5 cm
Weight: 10 lbs 3 oz/ 4.6 kg

▼ Power Requirements

100-240 VAC, 50/60 Hz, less than 50 watt (suitable for touring worldwide)



**ESI Turbo
Option Kit**

▼ Sound Support For ESI 2000

The ESI 2000 is fully compatible with E-MU's extensive CD-ROM library for EIII, EIIIx, EMAX II, ESI-32 and ESI 4000. The library includes all the classic Emulator musical instrument sounds and sound effects along with General MIDI and the latest developments in the world of dance music.

The Formula 4000 library is optimized for the ESI 2000's architecture, and offers presets that use the multi-filter and real-time control potential of the ESI 2000. Check out these essential discs:

- Hip-Hop Nation - Phatt Sounds, Worms & Loops.
- Analog Odyssey : Vintage Synthesizers and Keyboards.
- Techno Trance : Dance Electronica & Loops
- Earth Tones : World Instruments



- Protezoa : Mondo Multi-timbral banks including Proteus 1,2,3 & Vintage.

The ESI 2000 is also compatible with the Akai S1000/S1100 sound library which can be loaded from SCSI hard-drive, removable media or CD-ROM.

E-MU's in-house sound-design group has also developed a selection of CD-Audio (eg. Phatt Beats, Orbit Beats) for users to create loops without needing a CD-ROM drive. Hot new sounds are in constant development both internally and from third-party development partners. Contact your local E-MU dealer, call E-MU direct at 1-888-ESC-1-ESC (US only) or surf over to our online shop at www.emu.com to check out the latest in soundware for your E-MU sampler.



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