

Better Life with Music



GAIA SYNTHESIZER SH-DI Software for SH-DI GAIA SYNTHESIZER SOUND DESIGNER



This unique combination includes a synthesizer — a hands-on instrument for learning how sounds are made — and a custom-made companion software program.

It's a fun, friendly, and educational system for learning the basics of synthesis and sound design.



SYNTHESIZER SH-DI



Marana and



This interactive learning system gives students unique and effective tools for learning synthesis, and helps build their knowledge base and skill set.

"GAIA SH-01" is the embodiment of the origin of synthesizers, giving you the tools to create new sounds by freely manipulating waveforms. "GAIA Synthesizer Sound Designer" is a companion software program that lets students systematically learn how sounds are made on synthesizers by recording and playing back the entire process of sound creation with GAIA SH-01. This powerful hardware and software combination provides an engaging and effective environment for mastering the art of sound-design.



GAIA SYNTHESIZER SH-01

Experience the joy and creativity of synthesis with GAIA. The friendly, hands-on control panel makes sound-design fast and easy. It's an instant-gratification dream instrument that's easy enough for a student and powerful enough for a pro.

State-of-the-art virtual analog synthesizer engine, faithful to the processes of creating sounds on an analog synth.

Controls are logically arranged according to sound-flow; knobs and sliders provide direct interaction with the sound.

User-friendly layout, with oscillators, filters, amps, and LFOs — the essential building blocks of sound.

Triple-stacked sound engine enables astonishingly fat and diverse sounds; equivalent of having three synths in a single instrument.

Five channels of effects give you powerful tools to process your sounds.

Built-in phrase recorder lets you record and play back your performance; automatically create arpeggio performances.



COSM V-LINK & DEEAM USB AUDIO USB MEMORY

PATCH

Software for SH-01 GAIA SYNTHESIZER SOUND DESIGNE

THII WILL

Access all of GAIA's sound-design functions graphically on your PC or Mac. No hidden layers to navigate — it's all right in front of you!

USB connection supported

Instantly access every controller on the navigation screen.

Connect your computer and GAIA via USB

Display GAIA's operation panel on your computer screen. Control GAIA with your mouse and keyboard as well as from GAIA's front panel.

View GAIA's functions on the navigation screen This intuitive program provides graphical control of GAIA's functions, and lets you print out each step of your sound-design process.

Display all three sound engines simultaneously You can view all parameters of GAIA's three internal synthesizer engines on a single screen. The sliders and knobs onscreen can be moved with the mouse; you can also enter numerical values for detailed editing.





SYNTHESIZER SOUND DESIGNER Software for SH-D1 <SD-SH01>

ASION DISC Windows Mac OS X







🤗 🤭 ACTION LIST - Synth Bass TONE1 BOS -12 LIER CUTOFF ENV DEPTH SUSTAIN LEVEL DECAY TIME 3 +38 EPATCH_COMMON-ON DECAMP -ATTACK TIME -DECAY TIME -SUSTAIN LEVEL -RELEASE TIME FILTER -ENY DEPTH

66 27



Software for SH-01 GAIA SYNTHESIZER SOUND DESIGNER

Record the entire sound-design process

Every move you make with the virtual onscreen controls (as well as with GAIA's physical controllers) can be recorded, played back, and even displayed as an Action List.

Begin playback at any point in the process

You can play back your recorded Action Lists to see and hear your panel settings and the changes you've made to the sound. You can also begin playback at any point on the List. The screen will show the panel setting you've made at that point, and will sync with the change in sound.

Learn from experts

You can explore the library of preset Action Lists (created by pro artists) to analyze how sounds are made. Through this, you can learn advanced techniques for creating impactful sounds.

You can display, in a separate window, the evolving expressions of waveforms in a graphical format, giving you a new dimension and concept of sound.



Learn to create your own GAIA sounds with this helpful, easy-toread guidebook.

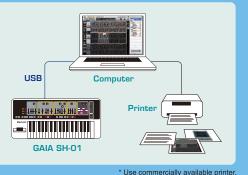


PRINT

Print your screen settings

Connect a printer to your computer to print out your panel settings and Action Lists. You can also print your Action Lists as text.

Use your print-outs in a variety of situations Since the entire sound-making process can be printed, teachers can distribute hardcopy as summaries of what was taught in class, or as a tool for teaching new methods. Teachers can also ask students to hand in print-outs of their creations.



The combination of Roland's GAIA SH-01 synthesizer and companion Mac/PC software is a fun and unique solution for educators and students.

It inspires creativity by allowing GAIA users to interactively explore every tone parameter on their large computer monitors. The software can also record and play back the entire sound-creation process, step by step, with its unique Action List function; the Wave Viewer function can display each waveform as a graph for visual reference. Beginners of synthesizer programming and pros alike will appreciate this powerful and inspiring approach to synthesis, as well as teachers of synthesizer programming.











This process helps students understand and learn, step by step, the teacher's sound-making process!

Examples of use





The GAIA Educational System currently in use at the world-renowned Musicians Institute in Hollywood, California.

Visit our website for in-depth information on GAIA.

www.roland.com





GAIA SH-01 Synthesizer



Keyboard	37 keys (velocity sensitive)	Effects	
Maximum Polyphony	64 voices	DIST	Distortion, Fuzz, Bit Crash
		FLANGER	Flanger, Phaser, Pitch Shifter
Sound Generator Section	Virtual analog synthesizer sound generator (Number of part: 1) (Oscillator + Filter + Amp + Envelopes for each section + LFO) x 3 PCM sound generator (Number of parts: 15)	DELAY	Delay, Panning Delay (with tempo sync function)
		REVERB	Reverb
		LOW BOOST	Low Boost
		Knobs	CONTROL 1, LEVEL
		Controllers	Pitch Bend/Modulation lever, D BEAM Controller
Patch Memory	Preset: 64, User: 64	Arpeggiator	Preset pattern: 64
OSC Section		Phrase Recorder	User: 8, Number of Track: 1
Oscillator waveform	SAW, SQUARE, PULSE/PWM, TRIANGLE, SINE, NOISE, SUPER SAW	Connectors	OUTPUT jacks (L/MONO, R) (1/4-inch phone type), Headphone jack (Stereo 1/4-inch phone type), PEDAL jack (TRS phone type), MIDI connectors (IN, OUT) USB COMPUTER connector (Supports Hi-Speed USB : Audio/MIDI) (Use a USB cable and a computer with a USB connector that support Hi-Speed USB), USB MEMORY connector (Supports Hi-Speed USB flash memory),
Knobs/Sliders	PITCH, DETUNE, Pulse Width, Pulse Width Modulation		
Envelope	Attack, Decay, Envelope Depth		
Modulation	Oscillator Sync, Ring Modulation (Tone 2's OSC is applied as modulation to Tone 1's OSC.)		
FILTER Section		1	EXT IN jack (Stereo miniature phone type), DC IN jack
Filter Type	LPF, HPF, BPF, PKG (-12 dB/-24 dB), BYPASS	Power Supply	DC 9 V (AC Adaptor or rechargeable nickel-metal hydride AA batteries (sold separately) x 8)
Knobs	CUTOFF, RESONANCE, KEY FOLLOW		
Envelope	Attack, Decay, Sustain, Release, Envelope Depth	Current Draw	600 mA
AMP Section			Rechargeable nickel metal hydride
Knob	LEVEL	Battery life for continuous use	batteries: Approximately 5 hours (approximately 4 hours if USB memory is connected) * Zinc-carbon batteries or alkaline batteries cannot be used
Envelope	Attack, Decay, Sustain, Release		
LFO Section			* These figures will vary depending on the actual condisions of use.
LFO Shape	TRIANGLE, SINE, SAW, SQUARE, Sample&Hold, Random	Dimensions	mm: 689 (W) x 317 (D) x 100 (H) mm inches: 27-3/16 (W) x 12-1/2 (D) x 3-15/16 (H)
Knobs/Sliders	RATE, FADE TIME, PITCH DEPTH, FILTER DEPTH, AMP DEPTH	Weight	4.2 kg / 9 lbs 5 oz (excluding AC Adaptor) Owner's Manual, Guide Book, CD-ROM (USB Driver),
Tempo Sync	ON/OFF	Accessories	DVD Video, AC Adaptor, Power Cord

Rear Panel



GAIA SYNTHESIZER SOUND DESIGNER Software for SH-01 <SD-SH01>

Screens

- •Tones Edit screen, Effects Edit screen Full editing of GAIA's sound parameters.
- Action List screen
 Record and replay the entire sound-creation process.
- •Waveform Viewing screen Waveform viewing software lets you see the synth waveform.

System Requirements

[Windows]

- Operating System: Microsoft® Windows® 7
 (32-bit/64-bit/(Service Pack 1 or later)
 Microsoft® Windows® Vista®
 (32-bit/64-bit/(Service Pack 2 or later)
 Microsoft® Windows® XP Home Edition/Professional
 (Service Pack 3 or later)
 CPU: Intel® Core™, Pentium® processor 2 GHz or higher
 PAM* 2 GB er more

•RAM: 2 GB or more •Hard Disk: 100 MB or more of free space

- Obsplay/Colors: 1,440 x 900 dots or higher/24-bit Full Color or more
 Others: CD-ROM Drive
 A computer with a USB connector that supports USB Specification
 Revision 2.0 or higher
 - * Use a USB cable and a computer with a USB connector that support Hi-Speed USB. * Intel chipset is recommended.

 - * GAIA SH-01 may not perform to its full specs when used with an added USB 2.0 interface card.
 - * This driver cannot be used in a virtual Windows environment, such as Windows XP Mode (Virtual Windows XP) or Virtual PC. * Apple Mac computers running Microsoft Windows are not
 - supported

[Mac OS]

- Operating System: Mac OS X v10.5.8 or later
- •CPU: Intel[®] processor •RAM: 2 GB or more

- Hard Disk: 100 MB or more of free space
 Display/Colors: 1,440 x 900 dots or higher/16.7 million colors or more
 Other: CD-ROM Drive, Apple Mac computer with on-board Hi-Speed USB

 Use a USB cable and a computer with a USB connector that
 - support Hi-Speed USB.

* Although Roland has tested numerous configurations, and has determined that on average, a computer system similar to that described above will permit normal operation of the GAIA SH-01 Applications, Roland cannot guarantee that a given computer can be used satisfactorily with the GAIA SH-01 Applications based solely on the fact that it meets the above requirements. This is because there are too many other variables that may influence the processing environment, including differences in motherboard design and the particular combination of other devices involved.

Before using this product, you may need to update your GAIA SH-01 to the latest version. In order to perform the update, you will need a separately available USB memory device.

* The GAIA SH-01 is required in order to use this software.



V-LINK

Once a musical instrument generates sound vibrations, it reaches the human ear through various mediating objects, each of which significantly affects the sound. The material and configuration of the instrument, the electric/magnetic amplifying system, the air and the reverberation of the room all affect the final sound. Sound modeling, an advanced DSP technology, "virtually" reconstructs these objects. Roland's breakthrough Composite Object Sound Modeling (COSM) uses the advantages of multiple modeling methods and succeeds in accurately emulating existing sounds, as well as producing sounds that have never before been created.

Using V-LINK, musicians can "play" video from their electronic instrument - or even control a live video camera - when used with Roland/EDIROL video products. With V-LINK, musicians have a powerful interface for realtime audio and video integration

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