



The origin of sound, the future of creativity...

## Dream. Create. Perform.

Named for the mythological goddess GAIA, the SH-O1 synthesizer symbolizes creation. With its massive analog-modeled tone and friendly hands-on control panel, this inviting instrument harks back to the genesis of synthesis, yet it utilizes today's most advanced technology. The triple-stacked engine puts potent virtual analog synthesis under your fingertips, driven by a control panel that's fast and fun to use. The signal flow is simple to grasp, with logically arranged knobs, sliders, and buttons. Even first-timers can create great sounds!



### Combining the vintage spirit of analog synths with state-of-the-art technology.

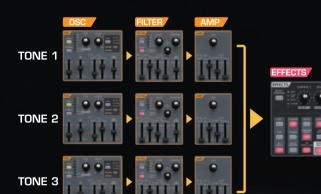
At the heart of GAIA is Roland's newly developed virtual-analog engine that combines the DNA of Roland's coveted analog synths, such as the SH-1000, with cutting-edge synthesis.

### Hands-on panel design that's easy to understand.

The foundation of sound creation is an instrument's user interface, and how fluidly it lets you customize sounds. GAIA features a front panel that's logically laden with knobs and sliders — adhering to the basics of synthesis and signal flow.

### Create dense synth sounds on a single unit. Express yourself with GAIA's triple virtual-analog engine.

GAIA lets you create incredibly thick, powerful sounds. Three oscillators drive a trio of multimode, resonant filters, multi-shape LFOs, and amplifiers, plus nine envelope generators, and a complete multi-effects system.



Manipulate tone in real time by

waving your hand over the invisible

performance as you make dramatic

Sync your GAIA performances with

BENDER/MODULATION

Push the lever left or right to bend

the pitch of notes; push it forward

for modulation (vibrato, etc). These are must-have controllers for synth

video content to open up a new

dimension in live entertainment.

gestures that alter the tone.

V-LINK

powerful synth engine, which delivers the equivalent of three complete synthesizers. Manipulate sound on all three layers at once or

to achieve vibrato, wah, or tremolo effects. GAIA provides a natural connection between its controls and the ransition of sounds they produce.

21 oscillator waveforms (3 variations of 7 types) forms the basis of GAIA's sound. In addition to standard sine, square, and sawtooth waves. GAIA is equipped with Roland's famous SUPER SAW waveform (inherited from Roland's classic JP-8000 and V-Synth GT) plus oscillator sync and

Create cool variations in tone with the filter. From buttery smooth tonal sweeps to ripsaw howls and squeals, you can make the filter sing with resonance and

This section is used to add tone. Specify the difference between sustained tones produced on an organ, or example, and decaying ounds produced on a piano

Effects are powerful tools for creating sounds. Add distortion or colorful fluctuations to your tone, or add spatial expanse and depth. Also included: BIT CRUSH for creating intense distortion and LOW BOOST for ultra-lows. GAIA's powerful effects section lets you use up to five types

 With its inviting panel design full of friendly hands-on controllers, GAIA makes it easy to master the basics of synthesis.

• Connect GAIA to your PC via USB to create music in a PC-based

EXT IN

Connect your audio player

to this jack and play backing

tracks during a live show or

use it for practice. The Center

sounds in the center of the

sound spectrum for vocal or

BATTERY POWER

GAIA can run on AC or

battery power, great for

street performances! Play up

to five hours\* on eight AA

POWERED

nickel metal hydride

instrument training.

## SYNTHESIZER SH-O1

CB-37SY



Roland

### COSM

instrument, the electric/magnetic amplifying system, the air and the reverberation of the room all affec

### V-LINK

interface for realtime audio and video integration.

# EXT IN (STEREO) Roland GAIA

■Rear Panel

main keyboard or on your desk with

OUTPUT Jack

### OCTAVE UP/DOWN

MIDI Connector

record MIDI or audio.

PEDAL Jack

transpose notes up or down in half-tone

USB COMPUTER Connector GAIA supports both USB MIDI and USB audio.

· B = • Roland GAIA

Play auto arpeggios simply by holding chords. You can save your favorite arpeggio patter with a tone that suits it best.

You can save your user patches and phrase

a great time-saver, since you can recall you data directly from USB flash memory.

In addition to its 64 preset patches, sounds at your fingertips.

GAIA comes with a Phrase Recorder that lets you record and slider actions, such as complex filter movements, that can be applied to your live playing.

### ■ Specifications

Keyboard	37 keys (velocity sensitive)	REVERB	Reverb
Maximum Polyphony	64 voices	LOW BOOST	Low Boost
Sound Generator Section	Virtual analog synthesizer sound generator (Number of part: 1)	Knobs	CONTROL 1, LEVEL
	(Oscillator + Filter + Amp + Envelopes for each section + LFO) x 3 PCM sound generator (Number of parts: 15)	Controllers	Pitch Bend/Modulation lever, D BEAM Controller
		Arpeggiator	Preset pattern: 64
Patch Memory	Preset: 64, User: 64	Phrase Recorder	User: 8, Number of Track: 1
OSC Section			OUTPUT jacks (L/MONO, R) (1/4 inch phone type)
Oscillator waveform	SAW, SQUARE, PULSE/PWM, TRIANGLE, SINE, NOISE, SUPER SAW	Jacks/Connectors	Headphone jack (Stereo 1/4 inch phone type) PEDAL jack (TRS phone type) MIDI Connectors (IN, OUT) USB COMPUTER (Supports USB HI-Speed Audio MIDI) (Use a USB cable and a computer with a USB connector that support USB 2.0 HI-Speed.) USB MEMORY (Supports USB 2.0 HI-Speed 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			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		
AMP Section			600 mA
Knobs	LEVEL	Current Draw	* Battery life for continuous use (differs depending on the conditions of use) Rechargeable nickel metal hydride batteries:
Envelope	Attack, Decay, Sustain, Release		
LFO Section		Current Draw	Approximately 5 hours
LFO Shape	TRIANGLE, SINE, SAW, SQUARE, Sample&Hold, Random	(app	(approximately 4 hours if USB memory is connected)  * Zinc-carbon batteries or alkaline batteries cannot be used
Knobs/Sliders	RATE, FADE TIME, PITCH DEPTH, FILTER DEPTH, AMP DEPTH		
Tempo Sync	ON/OFF	Dimensions	mm: 689.3 (W) x 316.9 (D) x 99.5 (H)
Effects		Dimensions	inches: 27-3/16 (W) x 12-1/2 (D) x 3-15/16 (H)
DIST	Distortion, Fuzz, Bit Crash	Weight	4.2 kg / 9 lbs 5 oz (excluding AC Adaptor)
FLANGER	Flanger, Phaser, Pitch Shifter	Accessories	Guide Book, CD-ROM (USB DRIVER), DVD Video, AC Adaptor,

PHRASE RECORDER

## SYNTHESIZER SH-O1

