

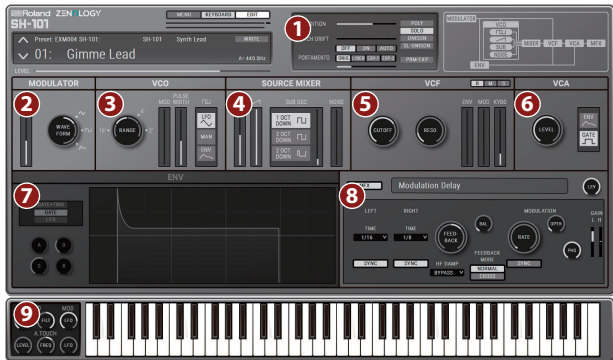
SH-101

Model Expansion

Parameter Guide

This document explains about the parameters and setting screens for the ZENOLOGY Pro Model Expansion.

The parameter names, the order in which they appear and other information may differ, depending on the product.



1 System

CONDITION

Simulates the changes that occur as a unit ages.

PITCH DRIFT

Adjusts the slight pitch drift that occurs when notes are played on an analog synthesizer.

KEY MODE

[SOLO] button

Sound is produced monophonically.

[POLY] button

Sound is produced polyphonically.

[UNISON] button

Sound is produced in unison.

[SL-UNISON] button

Sound is produced in monophonic unison.



PORTAMENTO [OFF] [ON]

[AUTO] buttons (PORTA MODE)

Turns portamento on/off. If this is on, the pitch will change smoothly from one note to the next-played note.

OFF: Regardless of the portamento time setting, portamento is not applied.

ON: Portamento is always applied.

AUTO: Portamento is applied only when you play legato (pressing the next key before completely releasing the previously-played key). This lets you use your playing technique to control portamento on/off.

[ORIG] button

Change according to the original curve of the model.

[LIN] button

Change in a linear curve.

[EXP-1] button

Change in a non-linear curve (gentle slope).

[EXP-2] button

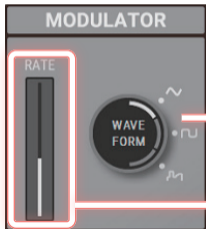
Change in a non-linear curve (steep slope).

[PRM EXP] button

(PARAM EXPANSION)

If this is ON, the range of the LFO RATE, CUTOFF, RESONANCE, and FILTER ENV DEPTH parameters are extended beyond the range of the original model.

2 MODULATOR



[WAVEFORM] knob (LFO WAVEFORM)

Selects the waveform of the LFO.
TRI, SQR, S&H

RATE (LFO RATE)

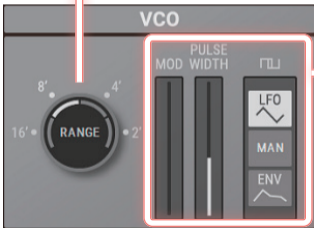
Specifies the rate of the LFO cycle.

3 VCO

[RANGE] knob (OSC RANGE)

Specifies the octave of the oscillator.

16', 8', 4', 2'



MOD (OSC LFO MOD)

Adjusts the depth at which the LFO modulates the OSC.

PULSE WIDTH (PULSE WIDTH MOD)

PW MODE = MAN: Adjusts the pulse width.

PW MODE = LFO/ENV: Adjusts the modulation depth.

(PW MODE)

Specifies the pulse width mode.

LFO: The pulse width is changed by the LFO.

MAN: The pulse width is changed by PULSE WIDTH MOD.

ENV: The pulse width is changed by the ENV1.

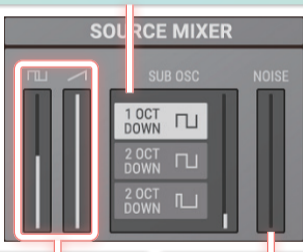
4 SOURCE MIXER

SUB OSC (SUB OSC LEVEL)

Adjusts the volume of the sub oscillator.

[1 OCT DOWN] [2 OCT DOWN] [2 OCT DOWN (small pulse width)] buttons (SUB OSC)

Specifies the SUB OSC type.



□ (PWM wave) (PW LEVEL)

Adjusts the volume of the PWM wave.

∧ (Sawtooth wave) (SAW LEVEL)

Adjusts the volume of the sawtooth wave.

NOISE (NOISE LEVEL)

Adjusts the volume of the noise.

5 VCF



[R] [M] [S] buttons (VINTAGE FLT TYPE)

If a vintage type model is selected, these buttons change the type of filter.

[R] models a Roland filter, and [M] and [S] model vintage synthesizers made by other companies.

[CUTOFF] knob

Specifies the cutoff frequency of the low-pass filter. The frequency region above the cutoff frequency is cut, producing a more mellow tonal character.

[RES] knob (RESONANCE)

Boosts the region of the filter's cutoff frequency. Higher values produce a stronger result, giving the sound a distinctively synthesizer-like character.

ENV (FLT ENV DEPTH)

Adjusts the amount by which the cutoff frequency is controlled by the envelope.

MOD (FILTER MOD)

Adjusts the amount by which the LFO modulates the cutoff frequency.

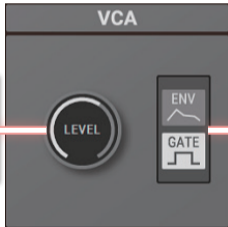
KYBD (FLT KEY FOLLOW)

Varies the filter's cutoff frequency according to the note played on the keyboard.

6 VCA

[LEVEL] knob (AMP LEVEL)

Adjusts the volume of the tone.



[ENV] [GATE] button (AMP ENV SEL)

Specifies whether the volume is controlled by the ENV (ENV) or stays at a fixed volume as long as the key is held down (GATE).

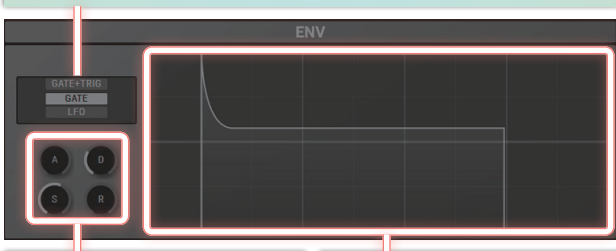
7 ENV

[GATE+TRIG] [GATE] [LFO] buttons (ENV MODE)

Specifies what causes the envelope to attack.

Button	Explanation
GATE+TRIG	Attack each time a key is pressed.
GATE	Attack when a key is pressed anew. No attack when playing legato.

Button	Explanation
LFO	Attack repeatedly at each cycle of the LFO as long as the key is held.



[A] knob (ENV ATTACK)

Adjusts the Attack time.

[D] knob (ENV DECAY)

Adjusts the Decay time.

[S] knob (ENV SUSTAIN)

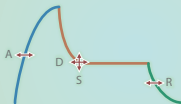
Adjusts the Sustain level.

[R] knob (ENV RELEASE)

Adjusts the Release time.

Envelope

You can edit the ADSR settings of the envelope.



8 MFX

[MFX] button

Turns MFX on/off.

[MFX TYPE] indication

Shows the currently selected MFX name.

[MFX LEVEL] knob

Adjusts the MFX output level.



MFX parameters

The edit screen is different for each MFX type.

9 Controller

BEND [PIT] knob (BEND PITCH)

Specifies the range of pitch change produced by pitch bend.

BEND [FILT] knob (BEND FILTER)

Specifies the range of filter change produced by pitch bend.

MOD [LFO] knob (MODULATION LFO)

Specifies the amount of LFO applied by modulation.



A.TOUCH [LEVEL] knob

Specifies how the volume of the tone is affected by aftertouch.

A.TOUCH [FREQ] knob

Specifies how the frequency of the low-pass filter is affected by aftertouch.

A.TOUCH [LFO] knob

Specifies how the LFO depth is affected by aftertouch.