

JUNO-106

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] button (PORTA MODE/PORTA TIME)

Selects whether portamento is applied to the performance and specifies the portamento time.

PORTA CRV

[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 LFO



[RATE] knob (LFO RATE)

Specifies the rate of the LFO cycle.

[DELAY TIME] knob (LFO DELAY TIME)

Adjusts the time from when the key is pressed until the LFO starts to apply modulation.

3 DCO

[RANGE] knob (OSC RANGE)

Specifies the octave of the oscillator.
16', 8', 4', 2'

LFO (OSC LFO MOD)

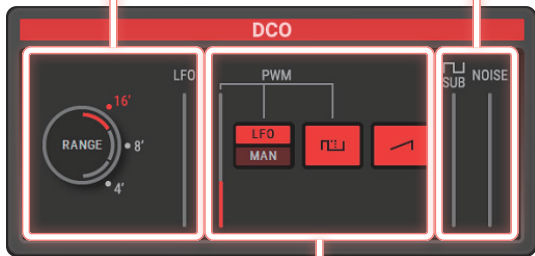
Uses the LFO to vary the pitch (vibrato).

[SUB] button (SUB LEVEL)

Adjusts the volume of the sub oscillator.

NOISE (NOISE LEVEL)

Adjusts the volume of the noise.



PWM

PM MODE = LFO: Adjusts the modulation depth.

PM MODE = MANUAL: Adjusts the pulse width.

[LFO] [MAN] button (PW MODE)

Selects whether the pulse width is modulated by the LFO (LFO) or kept at the fixed value specified by PULSE WIDTH MOD (MANUAL).

[SUB] (PWM wave) button (PW SWITCH)

Turns the PWM wave on/off.

[SAW] (Sawtooth wave) button (SAW SWITCH)

Turns the sawtooth wave on/off.

4 HPF



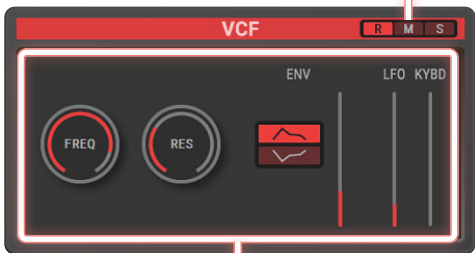
[FREQ] knob (HPF STEP)

Sets the high-pass filter's cutoff frequency in four steps.
0, 1, 2, 3

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.



[FREQ] knob (CUTOFF)

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.

Polarity buttons

Specify the polarity of the filter.

ENV (FLT ENV DEPTH)

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

LFO (FILTER MOD)

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

KYBD (FLT KEY FOLLOW)

Adjusts the amount by which the keyboard pitch affects the cutoff frequency (key follow). With smaller values, the cutoff frequency becomes lower as you play higher notes.

6 VCA



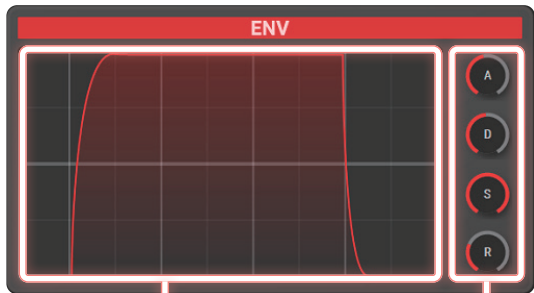
[LEVEL] knob (AMP LEVEL)

Adjusts the volume of the tone.

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

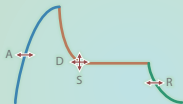
Specifies whether the volume is controlled by the ENV (ENV) or by the gate signal (GATE).

7 ENV



Envelope

You can edit the ADSR settings of the envelope.



[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.

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.