# PRISMATIC WALL

## I/O

**Audio:** low noise, high headroom buffered dry path with selectable regular or trails bypass.

**CTRL:** use 0-5V CV, an expression pedal, or tip active MIDI (via a MIDI box). Auto-configures based on its input.

**Power:** 9VDC, <200mA. Protected from over-voltage and reverse polarity conditions.

## RESONATOR

*TUNE*
Changes the pitch of the resonator bank by altering the sample rate of the DSP over a 4 octave range. Range/spacing of the resonators is determined by MODE.

*DAMPING*
High frequency damping of the resonator. Turn clockwise to increase brightness, with metallic artifacts at max. Highly interactive w/ DECAY.

*DECAY*
Overall resonator sustain. At higher settings, adds an analog feedback loop to create sustaining, metallic drones.

*MODE*
Selects the interval spacing between strings in the resonator bank as follows:

○ **Single note.** Straightforward, with additional strings forming overtones.

△ **Stacked neutral 3rd.** Has a dreamy quality thanks to its microtonal nature.

⬠ **Stacked 5th.** Deep, expansive, and sustaining, like a giant piano floating in the astral plane.

⬤⬤⬤ **Chromatic.** Twelve strings, each packed a semitone apart. Uses a lower fidelity string model to maximize density, while imparting a slight digital haziness.

Long press MODE to shift up an octave. This also mellows out higher overtones.

## Panel

**9V DC ONLY** ▲ CTRL ▼

TUNE   MIX   DRIVE

DAMPING   DECAY   LFO RATE   LFO AMOUNT

AUX **HOLD: ALT** — MORPH / PRESET

MODE — ○ △ ⬠ ⬤⬤⬤

WAVE **HOLD: MOD** — ∿ / 〰

PRESET

AUX   PRISMATIC WALL   ENGAGE

## ANALOG

*MIX*
Sets the relative balance of dry and effected signals from 0% to 100%.

*DRIVE*
Signal gain into the resonators. (The dry level is unaffected.) Use this to reduce the sensitivity of hot signals or overload the input with graceful overdrive.

## LFO

*RATE/AMOUNT*
The LFO speed ranges from glacially slow to the lower range of audio rate modulation, and the amplitude ranges from zero to completely off the rails.

*WAVE*
Select between normal and random LFOs. LFO is assigned to TUNE by default. Hold WAVE to access the Mod Matrix, where you can assign the LFO to other controls.

## ENGAGE

Activates the effect. Hold until the bypass LED blinks to toggle bypass modes. In trails bypass, the resonators will ring out naturally when the effect is turned off.

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## PRESETS

To save, hold until the first LED blinks. Then scroll to a slot and long press to confirm. To recall, press Preset to scroll through slots 1-3. Up to 16 slots available via MIDI PC messages.

## AUX

Use the button to determine footswitch behavior.
*MORPH* mode intelligently and expressively ramps between two control states.
*PRESET* mode scrolls through the first 3 preset slots.

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## MORPHING

Morph mode can smoothly transition between any two settings. Dial in a sound, then press the Aux footswitch and dial in a second sound. Then, you can morph between states by pressing the Aux footswitch, which has intelligent momentary or latching behavior. Use the Rise/Fall alt parameters to change the morphing speed.
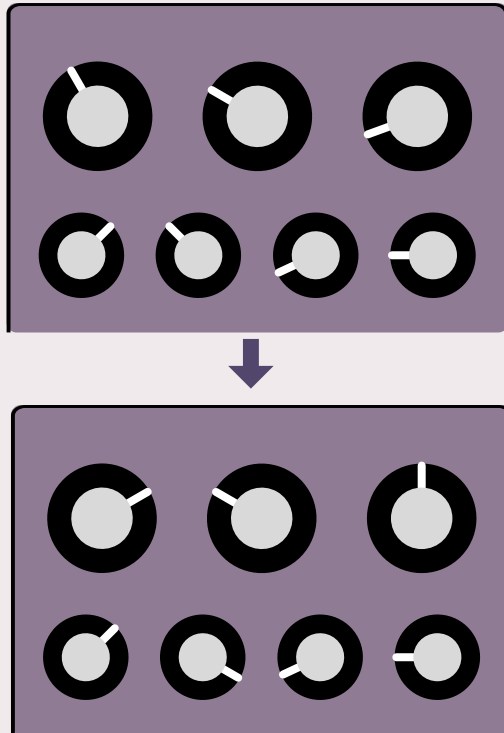
Morph mode is directly connected to the expression function, so it serves as an easy way to assign min and max values if you want to continuously morph parameters.

## ALT FUNCTIONS

To access alt functions, long press the AUX button until the nearby LEDs begin to blink. Press AUX again to save and exit.

QUANTIZE    SKEW    VOL TRIM

RISE    FALL    RATE MULT    SHAPE

● MORPH

AUX
HOLD: ALT ● PRESET
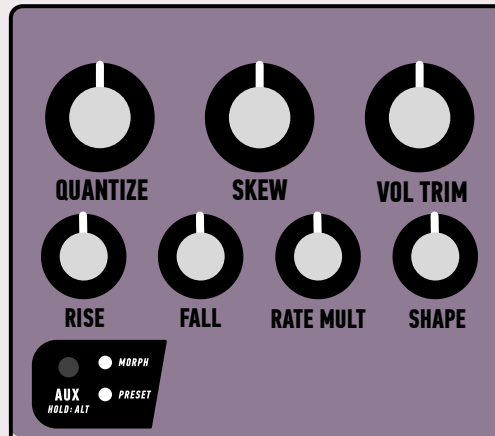
*QUANTIZE*
Turn clockwise past noon to quantize the Tune control into semitone steps.

*VOL TRIM*
Fine tune overall volume by +/-3dB

*RISE/FALL*
Ramping times for Morph mode. Turn clockwise to increase the ramping time.

*SKEW*
Bend the LFO into a ramp. Turn left to ramp upward or right to ramp downward.

*SHAPE*
Change the LFO shape. In periodic mode, goes from triangle to square to sine. In random mode, changes the smoothing behavior.

*RATE MULTIPLIER*
LFO speed range with four zones. Slow, medium, fast, and All (which gives the Rate knob the entire LFO range).

## MOD MATRIX

To access the mod matrix, long press the WAVE button until the nearby LEDs begin to blink. Press WAVE again to save and exit.

TUNE MOD    MIX MOD    DRIVE MOD

DAMPING MOD    DECAY MOD

WAVE
HOLD: MOD

The LFO modulates Tune by default, but you can assign it to other controls. Each knob sets its own modulation amount. At noon, the LFO has no effect. Turn right for positive modulation, and left for negative modulation.

OFF
−    +
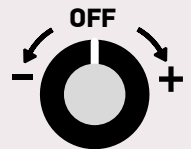
## If you get stuck...

Hold Aux button + press Mode to clear Expression/Morph
Hold Aux button + press Wave to clear the mod matrix
Hold Aux button + press Preset to clear alt settings

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