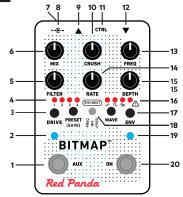
The Bitmap™ is a stereo bitcrusher with fractional bit reduction and sample rate modulation. It also features waveshaping, wavefolding, and a window comparator for extreme digital distortion. A drive control handles everything from single coil guitars to synthesizers, with +8 dBu maximum signal level and plenty of gain for hard clipping. Modulation and envelope control create dynamic, responsive distortion and digital artifacts.

The Bitmap 2 is tuned to provide maximum sustain without sputtering on staccato notes. Less extreme settings add layers of nonlinearities that interact in subtle ways, giving you the warmth and grit of 8- and 12-bit samplers. Sample rate reduction turns your guitar into 8-bit video game sounds or twists scales into inharmonic melodies. Sample rate modulation adds subtle motion or morphs your guitar into entirely new textures.

BITMAP



- AUX (default: tap)
- 3 Drive (input gain)
- 4 Presets
- 5 Filter cutoff

2 AUX LED

- 6 Wet/dry mix
- USB
- **8** 9V DC 250 mA
- Output (TRS)
- Bit reduction

- Control port
- 12 Input (TRS)
- Sample rate reduction
- Modulation rate
- 15 Modulation depth 16 Modulation waveform
- 17 Envelope amount
- 18 Envelope destination
- Bypass indicator 20 Bypass

CONTROLS

MIX

Drv/wet blend.

CRUSH

Bit reduction from 24 bits to 1 bit.

FREQ

Sample rate reduction (aliasing), from 48 kHz to 110 Hz

FILTER

Lowpass filter cutoff. Resonance can be adjusted using the editor or MIDI and saved to a preset

DRIVE

Adjusts the input gain from 0 to +40 dB. When the knob is moved, the **PRESET** and **WAVE** LEDs will temporarily display the signal level.

Adjust the **DRIVE** knob so that the "warning" LED blinks only occasionally to maximize the input range. Reduce it to make the signal sputter and cut out. Increase it for hard sustain and a more saturated sound.

CONTROLS (CONT.)

WAVE

Press to cycle through modulation waves:

•000	Triangle LFO
0000	Square wave LF
0000	Random LFO
•00•	Wavefolder
	Wave window

Waveshaper LFO waveforms modulate the FREQ control. but can be routed to FILTER or MIX using

the editor or MIDI and saved to a preset.

RATE

LFO frequency. Also syncs to tap tempo or MIDI clock. (Use the editor to set divisions.) Moving the **RATE** knob disables tap tempo.

DEPTH

Sets the modulation amount for LFO waves. Adjusts the foldover point, window level, or waveshaper curve. These are level dependent, and also affected by **DRIVE**.

Bypass / effect switch. Hold for momentary effect. The ON LED blinks vellow for tap tempo and MIDI clock sync.

CONTROLS (CONT.)

ENV:DEST

Envelope modulation destination. The input signal envelope can modulate the FREQ knob (+/-) or MIX (towards wet). Can be routed to MIX (-) or filter cutoff using the editor or MIDI and saved to a preset.

ENV

Envelope modulation amount.

AUX

Multi-purpose footswitch that can be configured using the editor:

Tap (default) - tap tempo (hold to cancel).

Preset - cycles through presets.

Preset shift - jumps to next preset while held, returns when released. Use for emphasis or bursts of noise.

Wave on/off - disables LFO or waveshaping.

LFO hold - freezes LFO at current output value (momentary or latching).



PRESETS

Press the **PRESET** button to cycle through presets 1-4 and the live knob settings.

To save a preset, select the desired preset and hold the **PRESET** button for two seconds to store the current settings in that location. Bypass indicator will blink green.

127 presets are available via MIDI program change messages. To save a preset, hold down the **PRESET** button while sending a MIDI program change.

POWER

Use an isolated, well-regulated 9V DC power supply that can deliver 250 mA or more. See our knowledge base for information about specific power supplies.

If the pedal detects a problem with the power supply, the bypass LED will turn magenta and switch to bypass.

CTRL PORT

The CTRL (control) port supports:

- expression pedal
- control voltage (0-3.3V)
- Red Panda Remote 4 (or DIY switches)
- Tap tempo (normally open)
- 1/4" MIDI (via 3rd-party adapters)

USB PORT

The Mini USB port supports:

- firmware updates
- MIDI

RESOURCES

Owner's Manual: www.redpandalab.com/downloads

Firmware updates:

www.redpandalab.com/downloads

Web-based editor (requires Chrome): www.redpandalab.com/web-editor

Knowledge base and support: www.redpandalab.com/support

WARRANTY

This product is warranted against defects in materials and workmanship for one (1) year from date of original purchase. It does not cover damages or wear resulting from accident, misuse, abuse, or unauthorized adjustment and/or repair. Should this product require service (or replacement at our option) while under warranty, please contact support@redpandalab.com.

SPECS

Input impedance: 1 M Ω Output impedance: < 470 Ω Max. input: +8 dBu

Power: 9V DC, center negative

Current: 250 mA

EXPRESSION PEDAL

Use a pedal with a 10-25 $k\Omega$ linear pot.

- \bullet Hold right footswitch while plugging in exp.
- Move to heel position, adjust knobs.
- · Move to toe position, adjust knobs.
- Hold right footswitch for 2 seconds to save.

 Default assignment is **FREQ** knob, from minimum to knob position.

REMOTE 4

- · Hold right footswitch while plugging in.
- · Press footswitch for desired mode.
- Hold right footswitch for 2 seconds to save.



