Bitmap firmware 2.1 release notes

Bitmap version 2.1 expands its sonic range with more distortion and filter options, and adds the ability to transfer presets between your pedal and a computer . It was released in December, 2024.

We recommend doing a factory reset after updating your firmware. If you upgrade without performing a factory reset, the output gain will be set to 0 dBu. Hold the WAVE button until the LED changes to cyan and turn the MIX knob to its minimum setting to enable automatic gain control.

Note that the DRIVE control has more gain, so you will need to turn it down after updating the firmware.

Presets saved in earlier versions should not be affected.

New features:
- Input drive has more gain.
- Three input drive saturation types. Hard clipping (default) is the same as version 2.0.x and is similar to overdriving a mixer channel. Distortion 1 is a full-frequency distortion. Distortion 2 is a midrange-focused distortion that cuts through in a band setting or mix.
- Filter has 3 ranges: 330 Hz - 20 KHz (normal), 20 Hz - 20 kHz (extended), and ±2 octaves relative to the sampling rate (relative).
- The filter resonance can be adjusted by holding dow the WAVE button and turning the FILTER knob.
- Anti-aliasing filter with response similar to classic 12-bit samplers. The anti-aliasing filter can be set to on (default), off (matches v2.0.x), and adjustable (tracks filter frequency).
- Adjustable output level (-30 to +6 dB) by holding down the WAVE button and turning the MIX knob. At the minimum setting, it uses an automatic gain control to match the output volume to the input.
- The envelope follower is now pre-drive, to allow more dynamics with saturation. The envelope follower has a wider range.
- The envelope destination can be set to the filter or mix (inverted) by holding down the WAVE button and setting the ENV:DEST toggle switch to the left or middle position, respectively.
- The right LED is green if the envelope follower is active and an input signal is present.
- If the AUX switch is set to Modulation On/Off, the left LED will be green if modulation is on and red if it is off (previously it blinked when the setting changed).
- Filter resonance, modulation, and envelope destinations are remembered when power is off.
- Added mono in/mono out and stereo in/stereo out configurations.
- Hold tap tempo switch to cancel tap tempo.
- Improved out-of-band noise rejection.
- USB and 1/4" MIDI improvements.
- Web editor allows you to upload, download, copy, and paste presets.
- Web editor has been updated for the new features listed above. It is also supported on Linux.
- TouchOSC template for performance control and configuration (optimized for iPad).

Troubleshooting
- If your Bitmap's output is too loud after upgrading:
    - Hold the WAVE button until the LED changes to cyan and turn the MIX knob right past 12:00, then to its minimum setting to enable automatic gain control.

- Turn down the DRIVE control.

To perform a factory reset:
1. Start with the pedal unplugged.
2. Hold the PRESET, WAVE, and ON switches while plugging in power. The right LED will be solid blueish white.
3. Release the PRESET and WAVE switches first.
4. Release the ON footswitch.
5. When the factory reset is complete, the LEDs will cycle through different colors.
6. Power cycle the pedal to continue.