DELTA II

HARMONIC TREMOLO

Demo Kit

SPACEMAN

Introducing Delta II

EFFORTLESS INSPIRATION
The Delta II is a powerful optical harmonic tremolo with extensive tone shaping and rhythmic capabilities. The novel LFO enables its pilot to craft harmonic, and traditional tremolo sounds that stagger, hop, buzz, beat, and swirl with unparalleled variety using a brilliantly simple interface. Soar through the sonic scenery as evolving rhythms throb and pulse through your consciousness like stars flickering across the cosmos.

NEW COLORWAYS
Delta II Standard Edition colorways offer vivid visual appeal to match their breathtaking tonality and thoughtful functionality.

DELTA II FEATURES
- Smooth and lush all analog signal path, with 3 distinct voices
- Harmonic or traditional tremolo with a twist of the LAG control
- Wide-range LFO capable of slow pulsation to audio-rate madness
- Flexible filtering for deep and expressive tones
- 18V capable for high headroom use cases
- Selectable Expression / CV control of DEPTH or RATE
- Internal VOLUME trimpot for precise level matching

TRULY HANDCRAFTED
Hand-wired and built in Portland, Oregon, the Delta II features true-bypass relay switching with a soft-touch footswitch. On top of the cast-aluminum enclosure sits a durable, engraved vinyl faceplate and jewel indicator light. This pedal is built to last a lifetime, both on Earth or in the vacuum of space.

TECHNICAL SPECIFICATIONS
- Input Resistance: 1M Ohm
- Bypass Current Draw: 19.5mA
- Engaged Current Draw: 45mA
- Expression / CV: 0-5V DC via TRS jack - Over / Reverse voltage protected
- Input Voltage: 9-18V DC, negative center via the 2.1mm jack

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DELTA II

The Delta II is an optical harmonic tremolo with a deep feature set in a compact form factor. A twist of the innovative **LAG** control allows you to smoothly morph between traditional and harmonic tremolo, with infinite rhythmic possibilities. Hazy throbbing rhythms, and energetic harmonics swirl and blend in a cauldron of filtering, phasing pulsations.

VOICE Toggle - Each of the 3 voices consist of signal pairs to be modulated. Switch Left - High & Dry. Switch Middle - High & Low. Switch Right - Low & Dry.

RATE - Wide range LFO speed control. Range is 0.12Hz - 60Hz (8s - 17ms).

DEPTH - Intensity of LFO modulation. At minimum, LFO modulation is disabled.

LAG - Dials in 0-180 degrees of phase lag between the LFO outputs. At minimum, you'll get traditional tremolo. As **LAG** is introduced, you'll get harmonic tremolo with tons of rhythmic variety.

FREQ - The frequency splitter is a resonant 2-pole state-variable filter. High-pass, and Low-pass outputs are paired in different **VOICE** combinations for modulation. Range is 100Hz - 6kHz.

RES - Introduces a formant vocal quality to the filter. At higher settings, you'll notice a more dramatic emphasis as you sweep filter frequency.

EXP Jack - Sweep the **RATE** or **DEPTH** directly using any standard expression pedal or 0-5V CV via ¼" TRS cable. An internal switch selects which parameter is routed to the **EXP** Jack.

BYPASS Footswitch - True-bypass soft-touch relay switching to engage and disengage the effect.

ALTERNATE MODES - Apply power with the footswitch depressed. The **LAG** control transforms into a 4 position mode selector with additional LFO presets.

Mode 1 - LFO output 1 runs at normal speed, and LFO output 2 at half speed.
Mode 2 - Same as mode 1, but offbeat from each other.
Mode 3 - LFO output 2 runs at normal speed, and LFO output 1 at half speed.
Mode 4 - Same as mode 3, but offbeat from each other.

The Delta II requires external power of 9-18V DC, negative center via the 2.1mm jack next to the output jack. The Delta II has a high 1M ohm input impedance and a maximum current draw of 45mA when the effect is engaged. Please contact Spaceman if you are unsure about your DC adapter.

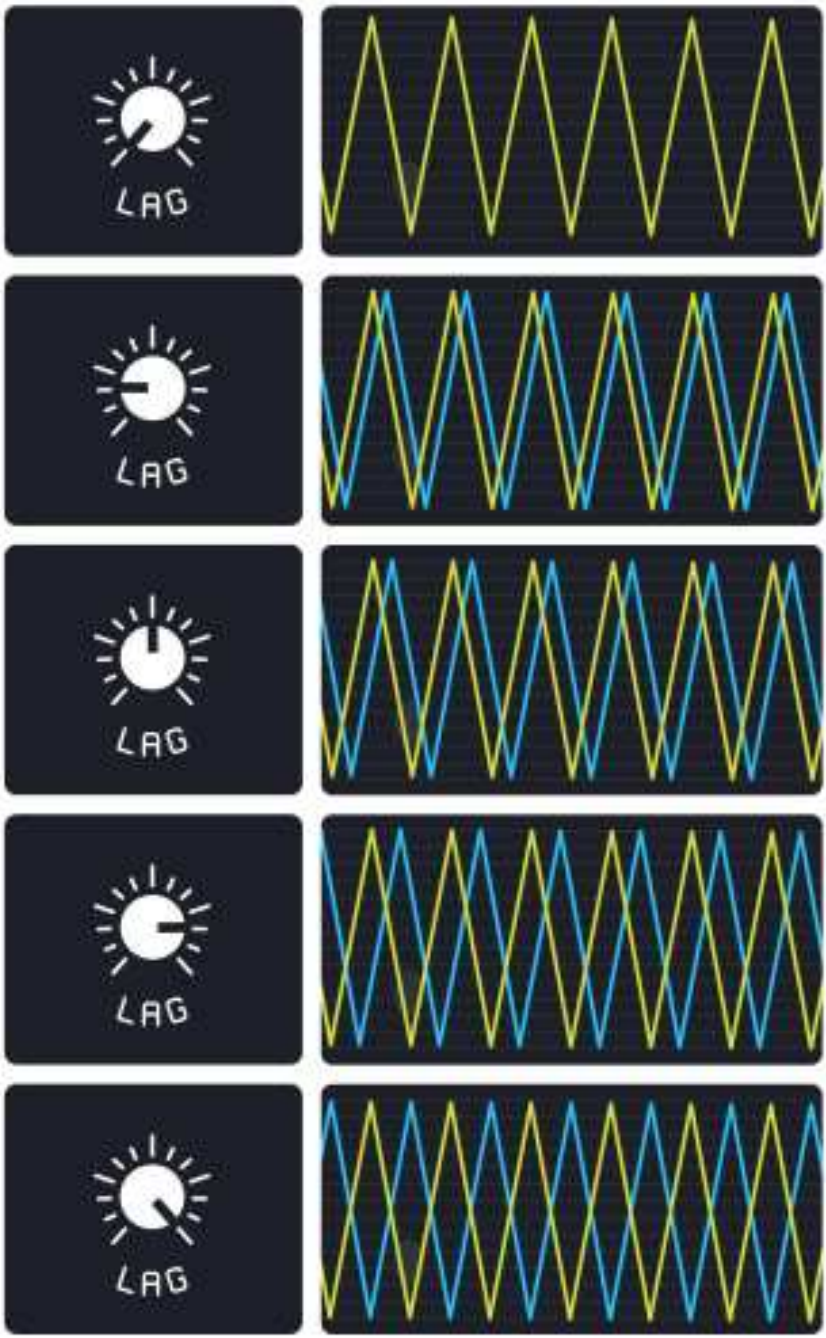
All Spaceman pedals are covered by a Limited Lifetime Warranty.

DELTA II

HARMONIC TREMOLO

LAG control map

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LAG
LAG
LAG
LAG
LAG

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Suggested Settings

On the following pages you'll find a collection of carefully crafted settings to get your started on your journey.

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Harmonic Tremolo Suggested Settings



Harmonix

The quintessential Harmonic Tremolo setting

The VOICE is selecting Low-pass and High-pass filter outputs

The FREQ knob controls the crossover frequency of the filter outputs

Traditional Tremolo Suggested Settings



Sweet & Lowdown

Harmonic Tremolo Suggested Settings



High & Dry

Harmonic Tremolo Suggested Settings



Throbby

Harmonic Tremolo Suggested Settings



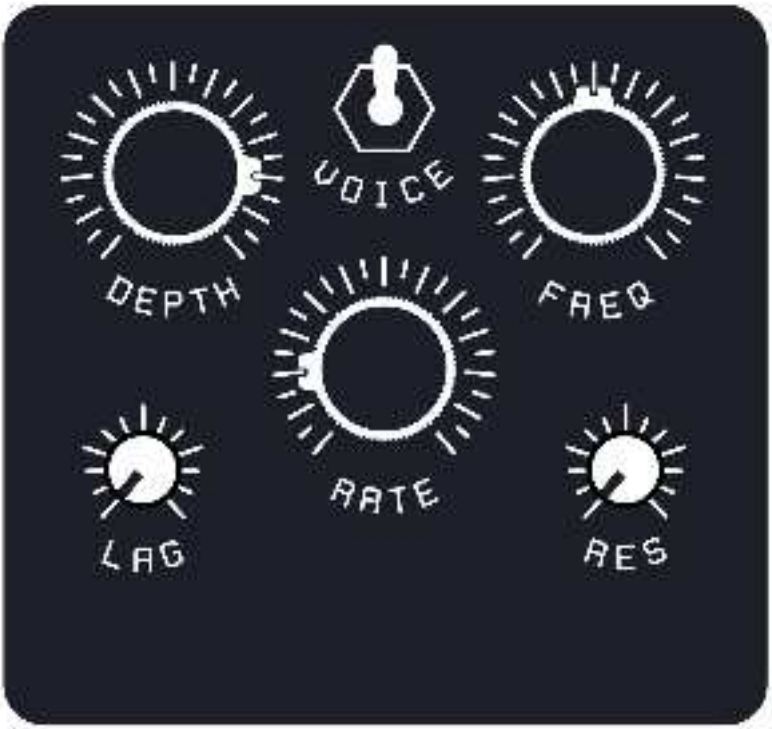
Good Vibrations

Harmonic Tremolo Suggested Settings



Phased & Confused

Traditional Tremolo Suggested Settings



Smooth Operator

This is a traditional tremolo sound

With LAG off, and VOICE in the middle, the tone shaping of the FREQ and RES is effectively minimized

Traditional Tremolo Suggested Settings



Highlighter

DELTA II

HARMONIC TREMOLO

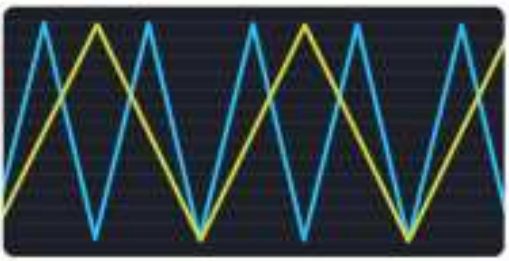
Alternate Mode Map

Apply power with the Footswitch depressed

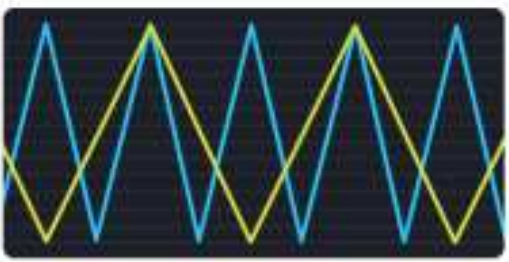
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VOICE
△ = DRY
△ = HIGH-PASS
VOICE
△ = LOW-PASS
△ = HIGH-PASS
VOICE
△ = DRY
△ = LOW-PASS

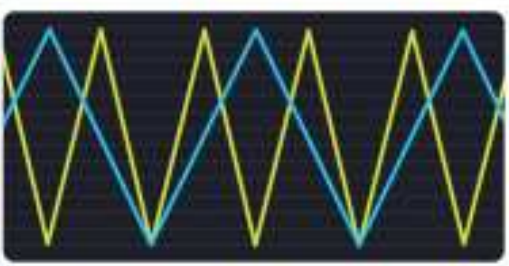

LAG



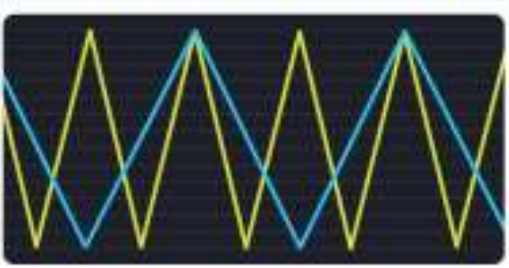

LAG




LAG




LAG



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HARMONIC TREMOLO

Technical Specifications

Width:	2.60 inches / 66 mm
Depth:	4.73 inches / 120 mm
Height:	2.17 inches / 55 mm
Weight:	10.5 ounces
Input Resistance:	1M Ohm
Bypass Current Draw:	19.5mA
Engaged Current Draw:	45mA
EXP / Control Voltage	0-5V DC TRS Jack - Over / Reverse voltage protected
Input Voltage:	9-18V DC, negative center via the 2.1mm jack

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