



One Series Ultrawave Multiband Processor



Product # SA250

Ultrawave Multiband Processor Product Description:

The Ultrawave Multiband Processor embarks on a pioneering journey into the advanced potential of overdrive and tremolo, exploring a brave new universe of sounds yet unheard. At the Ultrawave's core is a dynamic and multi-dimensional approach known as multiband processing. This process splits the frequency spectrum of a guitar, bass, or synthesizer into multiple, discrete frequency bands and equips each band with its own array of adjustable parameters. In the case of overdrive, the Ultrawave splits the incoming signal and provides separate drive and output level controls for each individual band. The result is a thick and rich distortion with loads of unique overtones and dynamic interplay. Split the signal into 1, 2, 3, 4, 8, or 10 frequency bands, and apply any of the band splitting options to an exciting collection of overdrive types, including Tube, Diode, Foldback (a method of distortion often heard in the world of synthesizers), Octave Up, Negative Flip Diode, and more.

The Ultrawave also has an incredible companion collection of innovative sound processing blocks to take sound creation into vast new directions. These are found in the Neuro Desktop Editor (free editing software for Mac or Windows) or Neuro Mobile App (free for iOS and Android). All presets created in the Neuro editors can be loaded directly to the pedal, saved to a personal, cloud-based preset library, and published to the Neuro Community to be easily accessed by other Ultrawave owners. The dual channel compressor block includes studio level controls that can be placed before or after the drive circuits. The Multiband Tremolo block provides individual control of each band's tremolo depth, rate, and start time as well as its LFO wave shape. Changing the LFO wave shape and varying the tremolo start times of each frequency band creates fantastically propulsive sounds reminiscent of sequencer or arpeggiator effects. The LFO's Ring Mod option creates waves of retro/futuristic industrialism. The Morph feature explores the marvelous potential of sound morphing, which allows musicians to smoothly transition from one super-

charged tone to another with an external expression pedal, LFO, or envelope follower. The Ultrawave also has advanced stereo features that can send entirely different drive effects to each of the outputs for a wide stereo field, place the effect in two places in a signal chain, or generate mind-spinning, ping-pong tremolo effects. Plug in, turn up, and explore the wonders of multiband processing built on over a decade of refinement and experimentation.

One Series Ultrawave Multiband Processor Features & Specifications:

- **37 Different Band Splitting Options:** Band Splitting options including single, 2, 3, 4, 8, and 10 bands. Each band splitting option includes several sub-sets with different band splitting frequency points.
- **44 Different Distortion Types:** Choose from distortion/overdrive/fuzz types that include Tube, Diode, Foldback, Negative Flip Diode, Octave Up, and more.
- **Dual Channel Compressor/Expander:** Compressor features Input Gain, Threshold, Ratio, Attack, Release, and Output Gain controls with a detailed graphic monitor. Use the dual channel capabilities to isolate compression to specific frequencies. Place the compressor/expander before or after the overdrive module.
- **Multiband Tremolo:** Use the Multiband Tremolo's different start time options to create sequencer or arpeggiator type effects. Use the Band Phase Offset control to set up 2, 3, 4, 5, 6, 8 or 10 beat patterns.
- **Stereo Ins and Outs:** Create two entirely different presets and run them in series, parallel or run each to a separate output. Stereo options also apply to the Multiband Tremolo - use the Channel 1/Channel 2 Sync options or the Phase Offset control to create stereo ping-pong, tremolo effects.
- **Detailed LFO Controls:** Use the LFO module to control the Ultrawave's Tremolo, Morphing or Ring Mod features. Choose between a standard Sine Wave or use the Attack/Release controls to create highly customized LFO shapes.
- **Sound Morphing:** Change from one sound to another with an expression pedal, envelope follower or LFO.
- **8 Band Graphic Equalizer**
- **Adjustable Noise Gate**
- **Assignable Knobs:** Reassign all four of the Ultrawave's knobs to the parameters most useful for making quick, on-stage changes. Save a different set of knob assignments for every preset.
- **External Expression Pedal Control:** Make simultaneous, on-the-fly changes of up to three parameters with an external expression pedal.
- **6 Toggle Switch Accessible Presets:** Quickly access up to 6 pedal presets with the Ultrawave's toggle switch.
- **Create, Save, and Share Presets with the Neuro Desktop Editor:** Use the Neuro Desktop Editor to quickly download presets created by other Ultrawave owners or create and publish your own presets and make them accessible to entire Neuro Community.
- **Neuro Mobile App. (for iOS or Android)** – Connect your mobile device directly to the pedal for access an extended set of adjustable parameters. Save and download customized effects to the pedal and share them with other One Series owners. Connector cable included with pedal.
- **Universal Bypass** — Select either analog buffered or relay based True Bypass.
- **MIDI Capable** — Connect the Ultrawave to the Source Audio Neuro Hub and access up to 128 presets with MIDI Program Change (PC) messages. Control many of the pedal's parameters with MIDI Continuous Controller (CC) messages or assign LFO modulation speed with MIDI Clock.
- **USB Port** - Class compliant USB-MIDI allows the Ultrawave to work as a plug-and-play device with recording software running on Mac and Windows. The USB port offers connectivity to the Neuro Desktop Editor providing access to deep editing possibilities and pedal firmware updates.
- **Brushed anodized aluminum housing** - Dimensions: L: 4.5 in./11.4cm x W: 2.75 in./7cm x H: 2 in./5.1cm (including knobs) 9V DC power supply included.
- **Includes 9v DC power supply** - 300mA / Negative tip / Pedal draws 150mA.

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