

Canvas Volume Pedal

Manual Copy

Introduction

The Canvas Volume Pedal is an exciting new addition to the Canvas line of products from Walrus Audio. It is a robust volume pedal with useful features not commonly found on similar products. It uses a precision position sensor to determine the pedal's position and high-quality VCAs for a premium, all-analog signal path. It has no strings, pots, or gears to get scratchy, wear out, or break. The chassis is made from a mix of steel and aluminum, which makes it very strong while being conscious of weight.

With its flexible input and output configurations, it can accommodate all common pedalboard signal flows, such as mono with a dedicated tuner out, mono in, and dual mono out and full stereo. Canvas Volume offers user control over features such as taper, minimum on volume, maximum gain, and lag. This allows you to shape the feel and response of your volume pedal, tuning its behavior to best fit your rig and playing style.

- Sleek and custom enclosure design
- Magnetic sensors for maximum accuracy
- Various controls over the sweep
 - Taper options, adjusting the curve of the sweep
 - Minimum on, adjusts the range of sweep
 - Lag, to smooth out swells
 - Gain, and options for boost
- True Stereo or Mono with Tuner output

Controls

The user interface on Canvas Volume is tucked up under the heel of the pedal. There are two buttons with four parameter LEDs above them. These four LEDs indicate which parameter is currently selected and can be edited. The four parameters are Taper, Minimum On, Gain, and Lag. Each parameter has eight possible settings indicated by the eight value LEDs to the right of the buttons.

To edit a parameter, click the right and left buttons to select the desired parameter. As you move through the parameters, the setting for each is displayed with the value LEDs.

To increase the value of the selected parameter, press and hold the left button while clicking the right button. To decrease the value, press and hold the right button while clicking the left button.

Taper: The taper of a volume pedal refers to the curve of how your signal level changes through the sweep of the pedal. This is the most important parameter to dial in the “feel” of how the volume changes as you move the pedal. There are eight tapers to choose from on Canvas Volume. Each taper is a model of a real-world volume pedal and provides a different response from the pedal sweep. Taper 1 is custom-designed specifically for the Canvas Volume, aiming to provide an ultra-smooth response for guitar players. Tapers 2-6 provide more traditional audio tapers modeled after popular volume pedals. Tapers 7 and 8 feature models from pedals with a more linear response favored by pedal steel players:

Taper One (Canvas Taper)

Taper Two (Lehle model)

Taper Three (Boss model)

Taper Four (Dunlop model)

Taper Five (Ernie Ball VP Jr model)

Taper Six (Hotone model)

Taper Seven (Hilton model)

Taper Eight (Goodrich model)

Minimum On: By default, this parameter is set to its lowest setting, offering the highest level of attenuation at heel down, about -90dB. As you increase this setting, you reduce the maximum level of attenuation, therefore raising the volume and letting some signal still pass through at heel down. Increasing this setting will cause the pedal to raise your signal level quicker as you start to move the pedal, since you will be starting from a place of less attenuation.

Gain: This parameter sets the volume when the pedal is in the toe-down position. By default, it is set to position 5, which is unity gain (0dB). Settings lower than 5 will cause the maximum volume to be lower than unity when at toe down, and settings above 5 raise the maximum volume at toe down, in 3dB increments, up to +9dB at position 8.

Lag: This parameter allows the user to introduce a delay to the volume response of the pedal, which will further smooth the overall feel and sound when using the pedal. By default, it is set to position 1, which is the fastest response time. At position 8, the volume response lags by 2000ms behind the actual pedal position.

Signal Routing

Canvas Volume offers different signal routing options to best fit the needs of your particular application and desired signal flow. The options are:

- Mono in, Mono Out, Tuner Out
- Stereo In, Stereo Out
- Mono In, Dual Mono Out

When running mono in and mono out, connect your guitar to the left input and amp to the left output. The right output will serve as a dedicated tuner output. For full stereo applications, use the left and right input and left and right output, and the pedal will control the volume of both channels. If mono in and dual mono out is desired, this can be configured in the Utility Menu.

Utility Menu

To enter the utility menu, press and hold both buttons while applying power and release when all 8 value LEDs light up a single color. The four-parameter LEDs indicate four different utility functions that can be performed. Click the left and right buttons to scroll and select the utility function you would like to perform.

Purple – Factory Reset

To perform a factory reset, enter the utility menu and scroll to the purple LED and long-press the left button. The LEDs will flash, and the pedal will reboot with all settings put back to their factory defaults. Note: Any time a factory reset is performed, the pedal will need to be recalibrated.

Red – Calibration

To calibrate the volume pedal, enter the utility menu, scroll to the red LED, and long-press the left button. The eight value LEDs will start flashing. On a stable surface, gently sweep the pedal between full heel down and full toe down two to three times. Then long-press the left button until the LEDs begin to flash. The pedal will then reboot and be calibrated, ready to use.

Yellow – Mono Mode

By default, the right output jack is held at unity gain volume and serves as a tuner out when the pedal is connected in a mono system. To change the behavior of the right output jack in a mono system, enter the utility menu and scroll to the yellow LED. The first and second value LEDs indicate which mode it is currently in.

Value 1: right out = tuner output when configured in mono.

Value 2: right out = second mono output when configured in mono.

Use the left and right buttons to move the LED to the desired mode. Once the selection has been made, the LED flashes and the pedal boots, and will use the newly selected mono mode when cabled up in mono.

Blue – DFU

To enter DFU mode, enter the utility menu and scroll to the blue LED. Long-press the left button, and the LEDs will flash, and the pedal is now booted into DFU mode.

Note: this should only be done if instructed by Walrus Audio customer support. If this is done by accident, simply disconnect and reapply power to the pedal, and it will boot up for normal operation.

Specs

Input Impedance: 1M Ω

Output Impedance: 330 Ω

Frequency Response: 20Hz To 20kHz

Inputs: 2, 1/4" unbalanced TS

Outputs: 2, 1/4" unbalanced TS

USB Type C: For firmware updates via walrusaudio.io

Power Requirement: Isolated 9VDC, center-negative, 300mA minimum

Size: Height: 1.9" / 48mm Width: 3.6" / 91mm Depth: 8.9" / 225mm

Weight: 2.2 lbs