

# **HVO™**

## **Owner's Manual**

### **Revision 1.0**

#### Description

The HVO is a high voltage overdrive pedal. It is unique in that it runs off a 250V internal supply. Also, the discreet transistor gain stages are configured for Triode mode operation. The result is that it sounds like a great tube amp.

#### Inputs and Outputs

**IN:** This ¼" mono jack is used to connect to a guitar or the output of an effects pedal.

**OUT:** This ¼" mono jack is used to connect to a guitar amplifier or another pedal.

**9V DC:** This 5.5/2.1mm jack is used to connect to the supplied external power supply. This supply is 9V DC (center negative) and is regulated. At least 350mA is required. Only this type of supply should be used.

#### Controls

**POWER:** This is the ON/OFF power switch. Push to the left to turn on the pedal.

**GAIN:** This knob is used to control the gain.

**BASS FREQ:** This 3-way switch is used to control the bass rolloff frequency.

**BASS:** This knob is used to control the bass level.

**BOOST:** This 3-way switch is used to boost the gain of the amplifier. The left position is the lowest gain, the center position is medium gain, and the right position is maximum gain.

**TREBLE:** This knob is used to control the treble level.

**VOICE:** This 3-way switch is used to change the overall voicing. The center position provides a "vintage" sound. The right position provides a "modern" sound, and the left position provides a "metal" sound.

**VOLUME:** This knob is used to set the output volume.

#### Operating Instructions

Connect the guitar or effects pedal to the IN jack using a guitar cable with a ¼" mono plug. Also connect the OUT jack to another amplifier or effects pedal using an instrument cable with a ¼" mono plug.

Connect the supplied external power supply to the 9V DC jack and plug the external supply into a wall socket. Turn on the HVO with the POWER switch. The blue LED will turn on when the footswitch is in the ON position. It will turn off when the footswitch is in the bypass position.

The output volume of the HVO is controlled with the VOLUME knob. The BYPASS footswitch is used to bypass the HVO.

Set the amp for a clean tone with the HVO bypassed (blue LED off). Push the footswitch (LED on) and adjust the VOL knob to match the volume when bypassed.

#### For a Clean Boost: .

Set the BOOST switch to the left (minimum) position. Adjust the GAIN knob for maximum volume without distortion. Adjust the BASS, TREBLE and VOICE controls to taste. Adjust the VOLUME knob for the amount of boost desired

#### For a "Bluesbreaker" sound:

This is best used with an amp set for clean or mild overdrive. Set the VOL knob to about 10 o'clock. Set the BOOST switch to the middle position. Adjust the GAIN knob to about 1:00 o'clock for a Strat (lower for a Les Paul). Set the VOICE switch to the middle position. Set the BASS FREQ switch to the middle position. Set the BASS knob to maximum and the TREBLE knob to about 9:30 o'clock. Adjust GAIN and TREBLE to taste.

#### For a Classic Rock sound:

Best if used with amp set for a clean tone. Adjust the VOL knob for same volume as when bypassed. Set the BOOST switch to the center position. Set the VOICE switch to the center or right position. Set the BASS FREQ switch to the left position and the BASS knob to the center position. Adjust the GAIN and TREBLE knobs to taste.

#### For a Metal sound:

Best if used with amp set for a clean tone. Adjust the VOL knob for same volume as when bypassed. Set the BOOST switch to the right position. Set the VOICE switch to the left position. Set the BASS FREQ switch to the center position and the BASS knob to the center position. Adjust the GAIN and TREBLE knobs to taste.

### **Specifications**

Input impedance	700K ohms
Output impedance	1.5K ohms
Power	9V DC, 350mA, center negative

### **Warranty and Repair**

The warranty period is 2 years. If during the first 2 years the HVO needs repair, Surprise Sound Lab will repair or replace it at no charge. The owner will be responsible for shipping charges. Any problems due to misuse, abuse or modification will not be covered under the warranty. Any repairs outside of the warranty will be performed by Surprise Sound Lab for a reasonable fee. Please email [info@surprisesoundlab.com](mailto:info@surprisesoundlab.com) for any repair requests