

## SAFETY INSTRUCTIONS

- Read, Keep & Follow these instructions
- Heed all warnings
- Clean only with dry cloth
- Do not use this apparatus near water
- Do not expose the apparatus to dripping or splashing and ensure that no objects filled with liquids, shall be placed on the apparatus
- **WARNING:** To reduce the risk of fire or electric shock do not expose this apparatus to rain or moisture
- Unplug this apparatus during lightning storms or when unused for long periods of time
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Only use attachments/accessories specified by the manufacturer
- Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."
- Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as:
  - power-supply cord or plug is damaged
  - liquid has been spilled or objects have fallen into the apparatus
  - the unit has been exposed to rain or moisture.
  - the unit is dropped or the enclosure is damaged
  - the unit does not operate normally or changes in performance in a significant way

## SPECIFICATIONS

### Electrical Specifications

#### Potentiometer

Internal resistance - 470K Ohm

Taper - Custom

Usage rating > 1M cycles

#### Switch

Type - Latching

Function - Enables and disables Mute mode

### Dimensions

Base length at longest point - 9.9"

Base width at widest point - 4.0"

Height at highest point including feet - 3.25"

Pedal length - 8.7"

Pedal width at widest point - 3.0"

Pedal width at narrowest point - 2.3"

Weight - 3.5lbs

## DEMO VIDEO

Available on YouTube at -

<http://youtu.be/yt3T0xQjNeg>

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## VM-1 Passive Volume Pedal



## USER GUIDE

## INTRODUCTION

Congratulations on your purchase of the Mission VM-1 volume pedal. This product is designed to be intuitive to setup and operate, and to provide many years of trouble free service.

However, we recommend that you take a few moments to read through this User Guide in order to get the best possible experience with your new pedal.

## FEATURES

The VM-1 is a professional quality, all metal volume pedal designed for use with guitars. The pedal uses a 470K Ohm impedance potentiometer, that works perfectly with most passive electric guitar pickups. The VM-1 also features an isolated second output for connecting to a tuner or similar device, and a mute switch to permit silent tuning and noise free guitar changes.

## POWER

The VM-1 is a passive device and requires no internal battery or external power source for volume control and switching. If your VM-1 is fitted with the optional LED indicator, an internal 9v battery is required to power the LED only. If the battery is removed, the pedal will still function, only the LED will be disabled. Replace the battery by opening the battery cover on the baseplate.

## CONNECTIONS

The VM-1 uses a single ¼" TS phone jack marked **IN**, and two ¼" TS phone jacks marked **OUT 1** and **OUT 2** on the underside of the pedal. Connect your guitar directly to the **IN** jack with a regular guitar cable.

Since the VM-1 is a high impedance pedal, it works best when used first in the signal chain and connected directly to the guitar output. In general it is not recommended to use the pedal after other effects, particularly buffered effects, as this may cause an uneven response. Connect **OUT 1** to the guitar amp or next pedal in your signal chain.

If you are using a guitar tuner, you can isolate it from the signal chain by connecting it to **OUT 2**.

**OUT 2** is only enabled when the pedal is in mute mode. This avoids the tuner and additional cabling loading the pickups and causing a loss of high frequency sometimes referred to as 'tone suck'.

## MUTE MODE

Mute mode is engaged by pushing on the front of the pedal to activate the switch under the rocker. In mute mode, **OUT 1** is disconnected so no signal will pass to the amplifier. This is useful to completely mute your signal when the instrument is not in use, and allows switching of instruments on the input without any clicks or pops. **OUT 2** is engaged in mute mode in order to allow silent tuning. Activating

the switch a second time will reconnect **OUT 1** and disconnect the tuner. If fitted, the optional LED will light when in mute mode.

## ADJUSTMENTS

The tension of the rocker can be adjusted using the tension adjustment screw on the rear of the pedal between the rocker and the base. Use the hex key provided to tighten the adjustment screw until the pedal remains in place. It maybe necessary to adjust this screw every once in a while to compensate for use and environmental conditions such as very hot or cold weather, when the pedal has been stored for a long period, or after shipping. Replacement hex keys are available from Mission Engineering. The tension adjuster is not included if the optional spring load has been fitted.



The switch sensitivity on the VM-1 can be adjusted by lowering or raising the switch in the chassis. Use spacers and washers provided to lower the switch making it harder to press. Remove spacers and washers to raise the switch making it easier to press. **When replacing the switch, be careful not to over tighten the lock nut and damage the switch.**

