

## Small Pedalboard System

# DUAL VITALIZED ROUTING INTERFACE DVI-1M

## OWNER'S MANUAL

Thank you for choosing a Providence product. In order to take full advantage of the features and performance the product provides, please read this owner's manual thoroughly, and keep it in a safe place for future reference.

### ■ Main Features

The Providence DVI-1M "Dual Vitalized Routing Interface" combines dual Vitalizer circuits with junction box and externally controllable mute functionality in one compact, convenient unit that is an ideal input/output interface for a wide variety pedal and effect systems.

#### ● Dual Vitalizers

Built-in Vitalizer circuits lower the impedance of instrument signals, stabilizing the sound and effectively preventing signal degradation that can occur in multi-pedal systems and long cables. The DVI-1M includes two Vitalizer circuits: one following the main IN input and one following the RETURN input, providing Vitalizer benefits for a variety of routing setups.

#### ● Junction Box

Inputs and outputs are laid out to provide maximum efficiency and flexibility for pedal system wiring.

#### ● Tuner Output (Third Parallel Out)

The TUNER output is normally connected to an instrument tuner, but it can alternatively be used as a third parallel output after changing an internal switch setting.

#### ● Mute Box

An external latching-type footswitch can be connected to the MUTE CTL jack to control the DVI-1M mute circuit. In a standard setup where the pedal system is connected between the SEND and RETURN jacks, muting is applied at end of the pedal chain so that noise and unwanted ambience can be completely shut off when not playing.

#### ● Pop Noise Reduction Circuit

The DVI-1M mute circuit uses high-quality relays to ensure that no signal degradation occurs. A circuit that reduces the chance of pops and clicks occurring when the muting is switched on or off is also included. The entire system is designed to reject electrical interference from connected effect units or external sources, for stable, low-noise operation.

#### ● Thru Jack

The THRU jacks are stereo phone (TRS) types that can carry two electrically isolated audio signals, one via the tip and one via the ring, plus a ground connection (sleeve). The THRU jacks can be used to patch to amplifier channel control inputs from the pedal system, patch dual audio channels, or handle other functions according on system needs.

#### ● Wide-voltage DC Input

The DVI-1M can accept a wide range of supply voltages (+9V to +18V) from a variety of AC adapters designed for use with musical instruments and pedal systems. It can also be powered from a single 006P type 9V battery.

### ■ Connectors and Functions

① **THRU:** These TRS (Tip-Ring-Sleeve) jacks are directly connected, providing a convenient patch-through point for two independent signals via the tip and ring, and a ground connection via the sleeve.

② **OUT:** The OUT jack will normally be connected to the input of an instrument amplifier or similar device, and outputs a signal processed via the second DVI-1M Vitalizer circuit. The mute function is applied just before the OUT jack, muting the signal after it has been returned from the effect chain connected between the SEND and RETURN jacks. This makes it possible to tune silently on stage with all system noise effectively muted.

③ **IN:** This is the main input jack, directly connected to the first Vitalizer circuit. The guitar, bass, or other instrument that feeds the system should be connected here.

④ **MUTE CTL:** An external latching footswitch or other type of latching control device connected to this jack can be used to turn the DVI-1M mute function ON and OFF. Connect the switch or switching device via a monophonic ¼-inch phone cable.

⑤ **TUNER:** This output can function either as a tuner output or a third parallel output (the first two being OUT and SEND). To change the function of the output, remove the unit's rear cover and set the TUNER/PARA slide switch to the appropriate position. The switch is set to TUNER when initially shipped.

⑥ **SEND:** This output is normally used to send the instrument signal to the first pedal in the effect chain. It can also be used as a parallel output. The SEND output is affected by the unit's mute function.

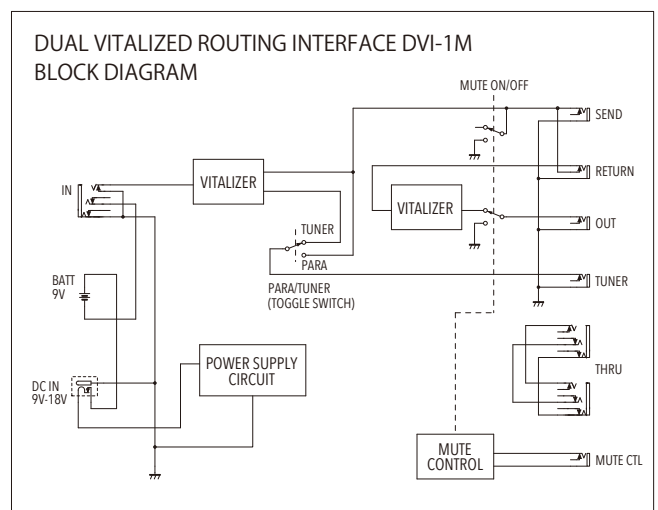
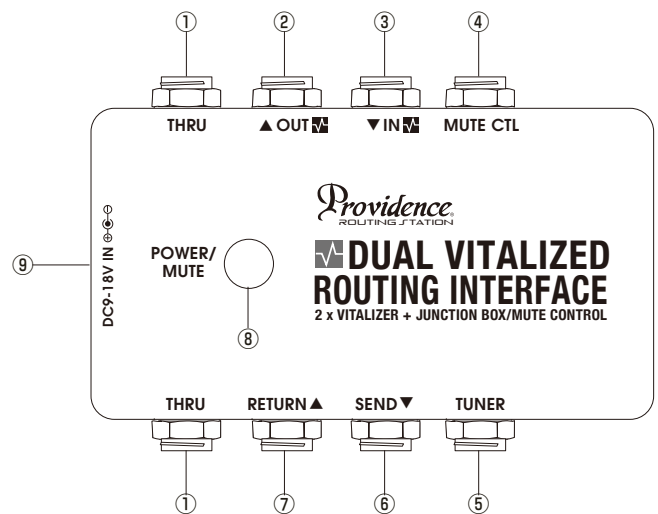
⑦ **RETURN:** The output from the last pedal in the effect chain fed by the SEND output is normally returned to the RETURN input. The RETURN jack can also be used as a second input, allowing two signal paths (IN -> SEND and RETURN -> OUT) to be independently processed via the two DVI-1M Vitalizer circuits, and muted/unmuted by using the unit's mute function. In this configuration both signal paths share a common ground connection.

⑧ **POWER/MUTE (LED):** This LED lights blue when power is ON and the mute function is OFF, or flashes red when power is ON and the mute function is ON.

⑨ **DC9-18V IN:** An AC adapter that delivers between +9 and +18 volts DC can be connected to this jack (center-minus, voltage regulated type).

### ■ Specifications

- Vitalizer Circuits x 2
- Inputs/Outputs: IN, OUT, SEND, RETURN, TUNER, DC IN, MUTE CTL, THRU-THRU (TRS)
- Power Consumption: 10 mA (MUTE OFF), 21 mA max. (MUTE ON)
- Control: TUNER output switchable for continuous output or MUTE CTL linked output (internal slide switch). MUTE controllable via external latching footswitch.
- Power Supply: One 9V battery, or regulated DC 9V ~ 18V power adapter (sold separately).
- Dimensions: 115 D x 78 W x 36 H (mm)
- Weight: Approx. 200 grams (not including battery)



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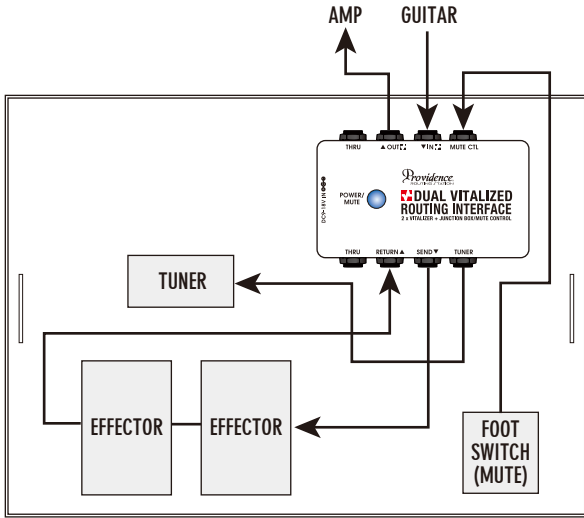
## DUAL VITALIZED ROUTING INTERFACE DVI-1M

### System Examples (Basic)

※ A number of other variations are possible. Visit the Providence website for more details: [www.providence-ltd.com/manual/dvi-1m\\_diagram.pdf](http://www.providence-ltd.com/manual/dvi-1m_diagram.pdf)

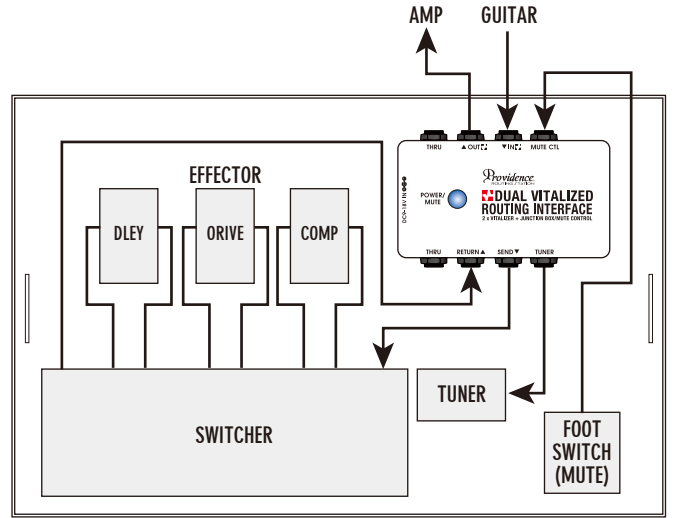
#### Basic System A (Junction Box)

Multiple pedals are connected to the SEND/RETURN loop, and an external footswitch controls the MUTE function.



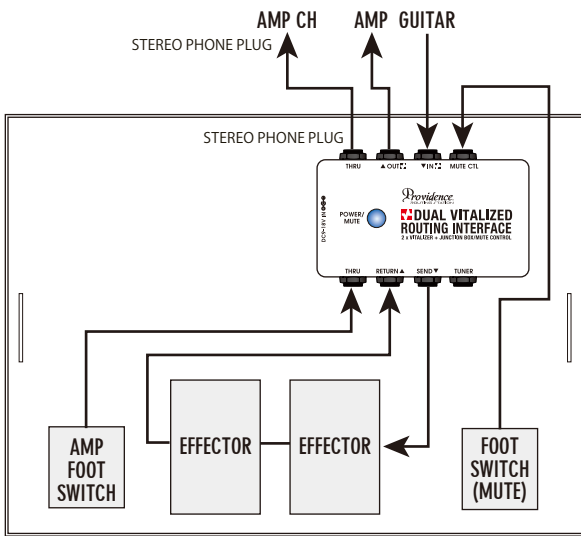
#### Basic System A (Junction Box)

A switcher controlling multiple pedals is connected to the SEND/RETURN loop.

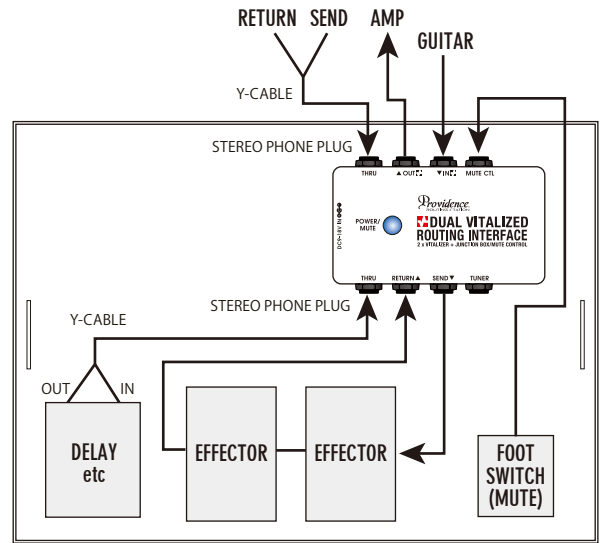


### System Examples (Advanced-1)

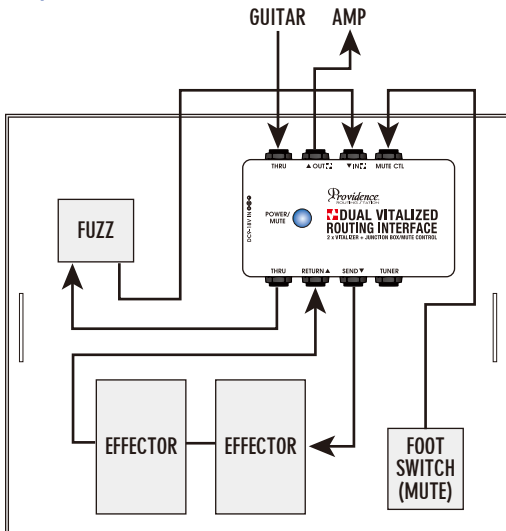
#### Amp Channel Switching



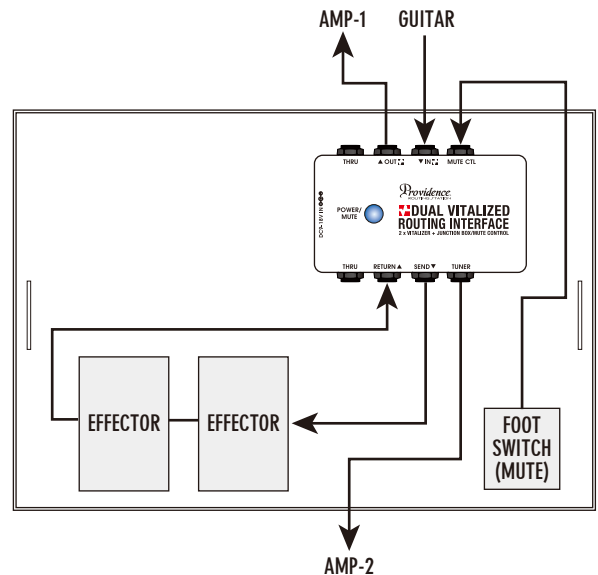
#### Connected to the Amp SEND/RETURN Loop



#### With pre-Vitalizer Fuzz Pedal

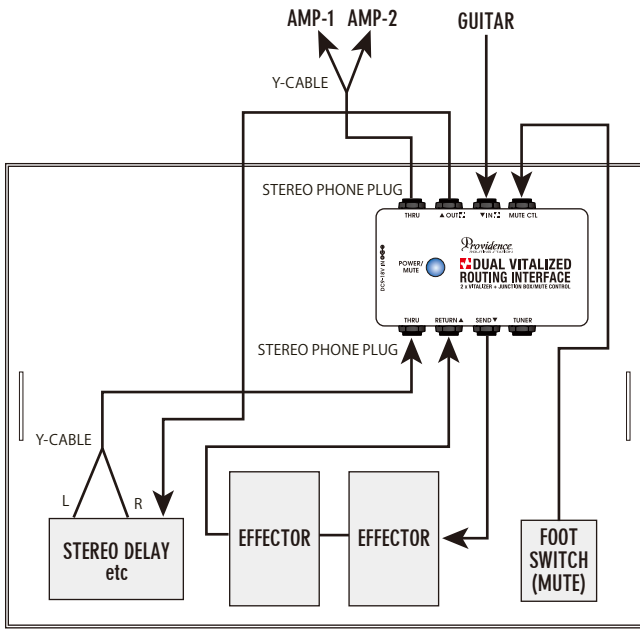


#### Parallel Out to Two Amps

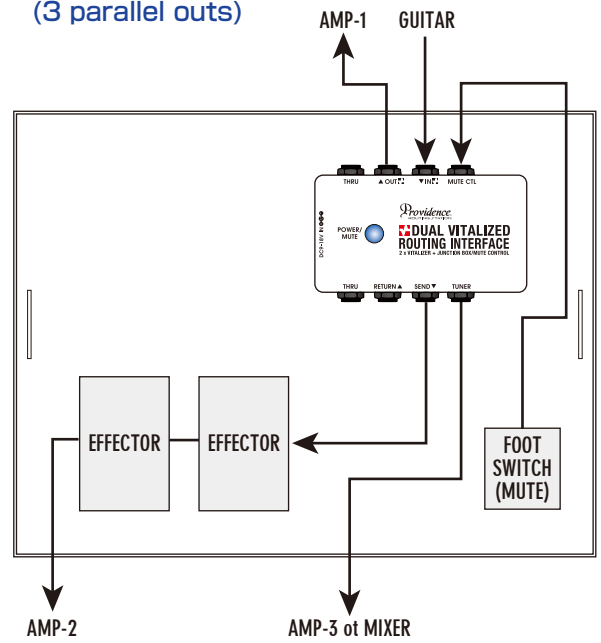


## System Examples (Advanced-2)

### Two Amps for Stereo

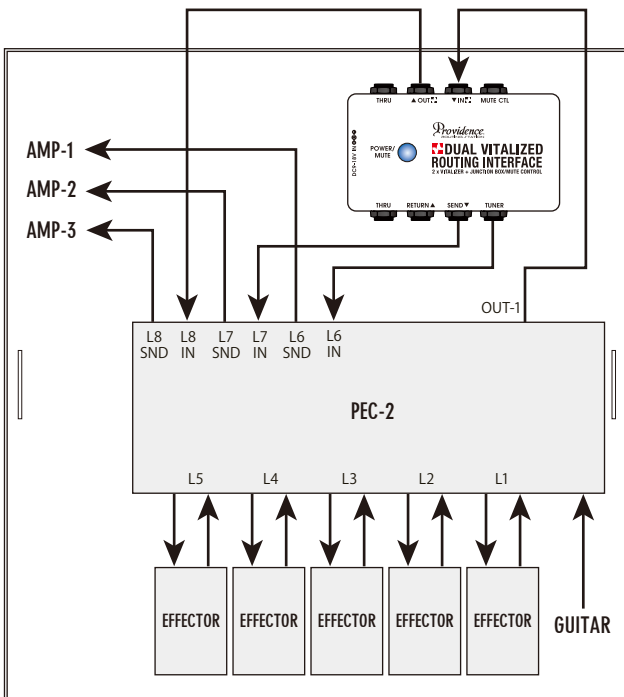


### Three Amps or Two Amps and one PA Feed (3 parallel outs)



## System Examples (Advanced-3)

### Three Amps with a PEC-2 Controlling Separate Loops



### Two Amps with a PEC-4V Controlling Separate Loops

