

The Eventide Reverb 2016 by Princeton Digital recreates the legendary reverbs from Eventide's SP2016 - Stereo Room, Room Reverb and High Density Plate - and contains 3 new algorithms that provide updated variations on each of the original reverbs. It features two channels of 24 bit audio I/O .

With dedicated function knobs and an intuitive user-interface, the 2016 is designed for easy operation – live or in the studio – and all the instructions you'll ever need are contained in this Quick Reference Guide.



## I/O Controls and Indicators

**Dig In** toggles selection of analog or digital source for the effect, and lights a yellow LED when digital is selected.

The LED will flash to indicate digital selection without a valid signal present at the S/PDIF input.

Algorithms which run in mono sum the inputs before processing, and light the yellow front panel **Mono** LED.

Set **Output Level** to the hottest signal that does not cause clipping of your input device.

Use the **Headroom** indicators to set **Input Level** so that the clip LEDs rarely light.

Press **Kill** to mute the input to the reverb.

Press **Bypass** to remove the 2016 from the signal chain (just as when **Power** is Off).

## Algorithm Selection

Press **Algorithm** repeatedly to cycle selection of one 6 reverb effects.

Colored LEDs indicate selection of **Stereo** (red), **Room** (yellow), **Plate** (green), or one of the 3 **New** (blue) effects: New Stereo, New Room, or New Plate.

## Program Select, Load, Save and Bypass

Turn **Preset** to select any of the 99 stored programs.

Press **Preset** to load the selected program.

To store the currently running program and its parameter settings, press **Save**. Turn **Preset** to select a location, then press **Save** again to commit.

Press **Bypass** to hear the audio without the effect. Press **Bypass** again to resume listening to effected audio.

## Parameter Adjustment

Each of the Reverb 2016's 7 parameters has a dedicated control knob/switch. Press any knob to display the current parameter value. Turn to adjust the value. Parameter settings are shown on the numerical display during adjustment.

**Mix** adjusts the wet/dry ratio from completely dry to 100% effect. Use in conjunction with some **Pre-delay**.

**Pre-Delay** introduces a stereo delay (0-1000 ms) before the reverb effect. Press while turning for coarse adjustment.

**Decay (RT-60)** sets the time (in seconds) for a full amplitude signal to decay by 60 dB. (The maximum varies with the selected algorithm.)

**Position** adjusts the arrival time, energy, frequency response and diffusion of the early reflections to give the impression of being close to the source (**Front**), far away (**Rear**), or anywhere in between.

**Diffusion** can be adjusted from **Low** to **High**.

**EQ – Low** Turn to cut or boost the low frequency portion of the reverb. Press and turn to select the roll-off frequency.

**Be careful – boosting the low frequency with a long delay time can cause the effect to run away.**

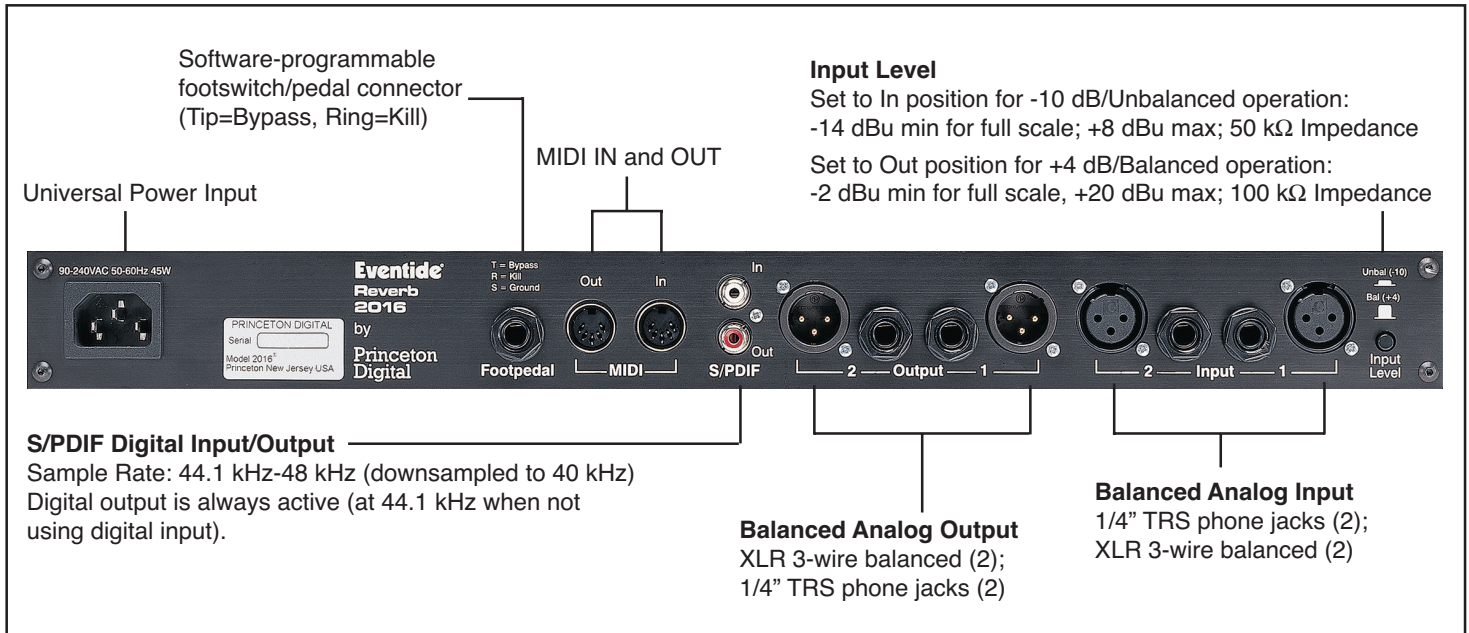
**EQ – High** Turn to cut the high frequency portion of the reverb. Press and turn to select the roll-off frequency.

## System Parameters

Press **System** repeatedly to cycle through the System parameters:

<b>MIDI Channel</b>	Use <b>Preset</b> to select <b>Off</b> , <b>1-16</b> or <b>All</b> .
<b>Dump Current Program</b>	Press the flashing <b>Save</b> button to execute a MIDI dump of the current program.
<b>Dump All Programs</b>	Press the flashing <b>Save</b> button to execute a MIDI dump of all stored programs.
<b>Operating System Software Version</b>	Press <b>System</b> from this display to exit.

## Rear Panel Connections



## Specifications

### Front Panel Controls and Indicators

- Power On/Off
- Pushbutton Controls for Digital In, Kill, System Bypass, Effect Bypass, Algorithm Select and Program Save
- Potentiometers for Analog Input and Output Levels
- Rotary Encoders with momentary pushbutton control for Preset selection/loading, and Parameter display/control
- LEDs indicate Digital input selection, Algorithm selection, Input signal level, audio clipping and DSP overflow, and Mono processing by certain algorithms
- 3-Digit Numerical Display indicates preset selections or parameter values

### Rear Panel Connectors

- Power Input: 90-240VAC, 50-60 Hz, 40W
- Footpedal: 1/4" TRS phone jack
- MIDI: standard MIDI Input and Output connectors
- S/PDIF: Coaxial, RCA-type
- Inputs: XLR (2) and 1/4" TRS phone jacks (2); balanced or unbalanced operation
- Analog Outputs: XLR (2) and 1/4" TRS phone jacks (2)

### Audio

Frequency Response	Wet 20 Hz-16 kHz, ±1 dB
Dynamic Range	> 98 dB
	20 Hz-20 kHz, non A-weighted
Sample Rate	40.0 kHz
Conversion	24 Bits A/D, 24 Bits D/A
Throughput Delay	1.55 mS
THD	< .006, full bandwidth
Crosstalk	< 86 dB below 1 kHz@Full Scale
Output Impedance	125 Ω each side, balanced
Output Level	+24 dBm max, Full Scale, balanced/unbalanced

### Physical/Environmental

Dimensions(HWD)	1.75" x 19" x 8" (1U rack mount)
Temperature	Operating: 32 to 104°F (0 to 40°C) Storage: -20 to 170°F (-30 to 75°C)
Relative Humidity	95% non-condensing

Specifications subject to change without notice.

For more information on the Reverb 2016, visit [www.princetondigital.com](http://www.princetondigital.com)

For more information on this and other Eventide products, visit our website at [www.eventide.com](http://www.eventide.com)

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