



The SM50 features independent *Normal* and *Bright* channels, each voiced to deliver wonderful vintage tones in “*plug n’ play*” fashion. Additionally, it delivers a third channel or mode, called **StackMode**.

The **StackMode™** feature on your amp sets it apart from any other amp on the market. Using **StackMode™** will allow you access to a broad range of sounds including some that are simply not possible on other vintage voiced amplifiers. Furthermore, StackMode™ allows you the ability to adjust unique parameters through its simple control set and interactive features.

At Reason, we feel that your amplifier should feel like a natural extension of your instrument and that it should inspire you to play better. We’re confident that your SM50 will meet and exceed your expectations!

## Specifications

- Output: 50 watts RMS @ 5% THD
- (2) EL34 output tubes, in Class AB Fixed Biased configuration
- (5) 12ax7 preamp tubes
- GZ34 Rectifier tube
- 3 way Stack switch - Normal, Stack, Bright
- Normal channel – Volume, Treble, Middle, Bass
- Bright channel – Volume, Tone
- StackMode™ – Bright & Normal channel controls are active, Stack Volume & Hi-Cut
- Oversized extra capacity power supply
- Parallel Effects Loop
- Power Switch
- Standby Switch
- Independent output jacks for 4,8, 16-Ohm operation
- Footswitch access to all three channels/modes

**Inputs** – Inputs High/Low sensitivity. This traditional input arrangement allows for a wide variety of tones and *loading* options. Careful selection of the input will maximize response from the guitar. For example, overly bright single coil pickups may benefit from the loading of the low sensitivity input as highs will be reduced slightly. Humbuckers can be used in the Low sensitivity input to gain more clean headroom. In either case, the High input will yield more gain and high frequency response.

**Normal Channel** – The Normal has a classic vintage voice that bridges the gap between early American and classic British voices. More suited toward clean and moderately overdriven settings.

**Treble, Middle, Bass** – Traditional Tone stack, allowing for a wide variety of frequency curves.

**Volume** – Controls volume of amplifier *when Normal Channel is engaged*. Gain is increased in higher settings.

**Bright Channel** – Simple Volume/Tone configuration for a pure signal path, emphasizing mid range and top end response. Bright Channel more cutting and aggressive than Normal channel.

**Bright Channel Tone** – Functions as a hi-frequency roll-off *when Normal Channel is engaged*. Settings of 2-3 on the tone knob will provide the flattest frequency response curve. As the knob is increased from 2-3 onward, more mids and gain are added to the sound. From 8 to its maximum setting, the bright capacitor is fully engaged and the amplifier will achieve “glassy” highs. The tone knob has maximum effect at lower settings of the volume knob and gradually less effect at higher volume control settings.

**Bright Channel Volume** – Controls volume of amplifier *when Bright Channel is engaged*. Gain is increased in higher settings.

**StackMode™** – Reason’s proprietary **StackMode™** feature is a switching circuit that allows you to select between two independent channels (Bright & Normal) in the typical fashion. Additionally, you can select the “**Stack**” setting, where both channels are then arranged in *series*. In the “Stack” setting, use of the Bright & Normal channel controls are retained.

**Stack Volume** – Controls the overall volume of the amplifier while in StackMode™ and is in design, a post phase inverter master volume. At maximum setting, this control is taken out of the signal path and the amp essentially becomes a non master volume amp.

**Stack Hi-Cut** – Active only while amplifier is in StackMode™, the Stack Hi-Cut is the amps final tone control and works in the power section of the amplifier. Maximum high frequencies attenuation is achieved at maximum setting (clockwise.)