

OP-PRO STUDIO

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Your new Ovation guitar is equipped with the OP-PRO preamp system. Developed to work specifically with the unique Ovation patented pickup, this professional grade system has been engineered to complement the unique character of Ovation guitars. It provides you with that essential „plugged-in“ sound and offers a range of features that will enhance your performance in any venue.

Reviewing the brief descriptions and pictures below will assure that you get the best performance possible out of your new Ovation OP-Pro:

1. GAIN:

Adjusts the overall output level of the preamp. Turning this control clockwise increases sound level; counter-clockwise decreases sound level.

2. LOW EQ:

Boosts or cuts the low frequency elements of the guitar's sound. If moved above the center position the amount of low frequency power is increased. Below the center, these sound are reduced. In the center detent position, the preamp does not affect these frequencies.

3. MID EQ:

Boosts or cuts the middle frequency elements of the guitar's sound. If moved above the center position the amount of mid frequency power is increased. Below the center, these sound are reduced. In the center detent position, the preamp does not affect these frequencies.

4. HIGH EQ:

Boosts or cuts the high frequency elements of the guitar's sound. If moved above the center position the amount of high frequency power is increased. Below the center, these sound are reduced. In the center detent position, the preamp does not affect these frequencies.

5. PRE-EQ:

Selects or bypass a preset tone enhancement circuit. In the „Shape“ position (down), this circuit contours the guitar's electric output in a way that reduces the piezo pickup's naturally efficient midrange response. It creates a pleasing, warm sound which has been favored by many well known Ovation players for year. In the „Bypass“ position (up), this circuit is disabled. The main, 3-Band EQ is fully functional in either mode, allowing a broad palette of contemporary sounds.

6. TUNE:

Activates the built-in tuner function. Pressing this switch once turns on the automatic tuner and allows you to easily tune your guitar referenced to A440Hz. If you need to tune to some other reference, like an out of tune piano, tune one of your string to the corresponding note on the other instrument. Then, while that note sustains on your guitar, press the tune button a second time. This pitch is now your reference. Simply tune the remaining string as usual with the new reference. To conserve battery power, the tuner automatically deactivate after two minutes, returning to the default A440. Holding down the tune button for about 2seconds will turn off the tuner at any time allowing maximum battery conservation. The tuner is fully functional without plugging in, however, a battery must be installed for the tuner to operate.

7. DISPLAY

When you play a note after pressing the tune button, the tuner display window clearly announces the following information.



TUNER ENABLED

The upper and lower segments alternately flash when the tuner is on and no note is played.



NOTE IN TUNE

When the note played is in tune to the reference, the note name is displayed with a „diamond“ on the right.



NOTE FLAT

When the note is flat, the note name is displayed with an arrow pointing up - the direction to move the string's pitch.



NOTE SHARP

When the note is sharp, the note name is displayed with a down arrow the direction to move the string's pitch.

8. BATT. PHANTOM:

The bi-color LED performs several function. First, when an appropriate plug is inserted into the guitar's output jack, this LED will briefly glow red to indicate power-up. Second, the LED will flash red when the battery is reaching the end of its useful life. Finally, on models equipped with an XLR output jack, this LED will glow green to indicate the presence of phantom power which will automatically power the unit conserving battery power.



Specifications

Battery Voltage	9VDC
Idle Current	2.5mA (approx. 150 hours battery life)
Tuner on	12mA (max)
Sleep Current	20 uA (approx. 2 years battery life)
Battery LED	6.4 V (turn on)
LED Flash Rate	= 25/minute
Max. Input	11.7Vp-p @ 1KHz (Volume max / All controls flat)
Max. Output (Unbalance)	5.40 Vp-p (47n Load / Volume max / All controls flat)
Max. Output (Balance)	12.4 Vp-p (Phantom on)
T.H.D	< 1% (-60dB)
Signal to Noise	86dB
Freq. Response	10Hz ~ 8KHz (-3.0dB)
Low EQ	± 8.5dB @ 70Hz
Mid EQ	± 5 dB @ 1 kHz
High EQ	± 12dB @ 10 kHz
Pre-shape	- 7dB @ 600 Hz + 3dB @ 60 Hz 0dB @ 7 kHz
Tuner Accuracy	< ± 1 Cent
Tuner Auto - Off	2 minutes

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