Ovation
GUITARS

OP-4BT PREAMP
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Owner's Manual

OP-4BT preamp

Congratulations on your choice of the Ovation Acoustic/Electric guitar equipped with the OP-4BT preamp. This preamp is designed to provide essential features for a great acoustic/electric guitar experience. To ensure optimal performance, please read this manual thoroughly.

OP-4BT PREAMP FEATURES

1. **GAIN**
   Adjusts the overall output level of the preamp. Turning this control clockwise increases the sound level; turning it counter-clockwise decreases the sound level.

2. **EQ BASS**
   Boosts or cuts the low-frequency elements of the guitar's sound. Moving the control above the center position increases the amount of low-frequency power. Below the center, these frequencies are reduced. In the center detent position, the preamp does not affect these frequencies.

3. **EQ MID**
   Boosts or cuts the middle-frequency elements of the guitar's sound. Moving the control above the center position increases the amount of mid-frequency power. Below the center, these frequencies are reduced. In the center detent position, the preamp does not affect these frequencies.

4. **EQ TREBLE**
   Boosts or cuts the high-frequency elements of the guitar's sound. Moving the control above the center position increases the amount of high-frequency power. Below the center, these frequencies are reduced. In the center detent position, the preamp does not affect these frequencies.

5. **BUILT-IN TUNER**
   The OP-4BT comes with a convenient built-in tuner, allowing you to easily tune your guitar without the need for external equipment. This feature ensures that you're always in tune and ready to play.

6. **DISPLAY**
   When you play a note after pressing the tune button, the tuner display window clearly provides the following information:

TUNER ENABLED
The upper and lower arrow segment alternately flash when the tuner is on and no note is played.

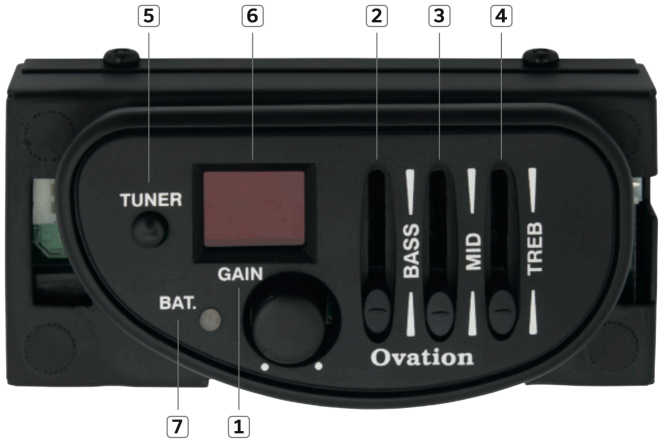
NOTE IN TUNE
When the note played is in tune with the reference, the note name is displayed along with the upper and lower arrow segment on the right.

NOTE FLAT
If the note is flat, the note name is displayed with an arrow pointing upwards, indicating the direction in which the string should be tuned.

NOTE SHARP
If the note is sharp, the note name is displayed with a downward arrow indicating the direction in which the string should be tuned.

7. OPERATION

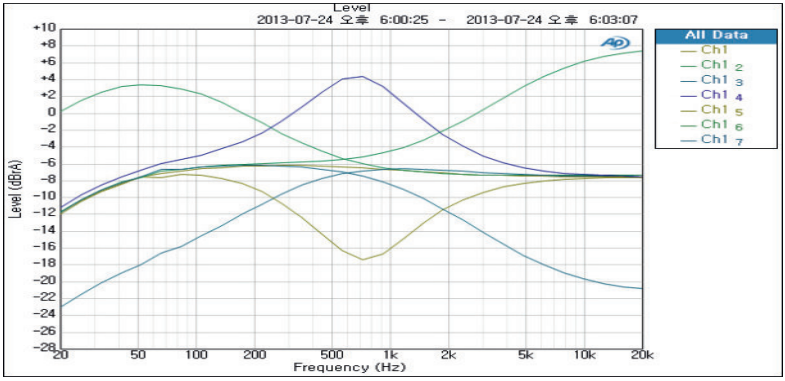
To operate the preamp, ensure you have a fresh 9V battery installed correctly in the battery compartment. Plug a 1/4" or 6.35 mm shielded guitar cable into the jack to activate the preamp. For the best results, connect the guitar to a PA system through a DI box or an audio interface, or use an acoustic guitar amp. Proper signal routing ensures optimal sound quality and avoids potential issues with direct PA connections.



Specifications				
INPUT	1KHZ(SINE WAVE) 185mVac			
VOLUME CONDITION				
Master Volume	Max			
Bass volume	center			
Treble Volume	Center			
Tuner s/w	Off			
Middle Volume	Center			
PIEZO OUTPUT				
100Hz(80mVac)	1KHz(85mVac)	10KHz(78.3mVac)		
Tuner on	15mVac			
-3DB Frequency	30Hz			
S/N Ratio	38dB (Signal =>GND)			
Hum & Noise	5mVac (Signal =>GND)			
FREQUENCY RESPONSE				
		Min	Center	Max
Bass	80Hz	29mVac	85.6mVac	260mVac
Middle	1KHz	29mVac	85.2mVac	238mVac
Treble	15KHz	16.7mVac	77.6mVac	413mVac

LOW BATTERY	5.5Vac

AP - TONE TEST	



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