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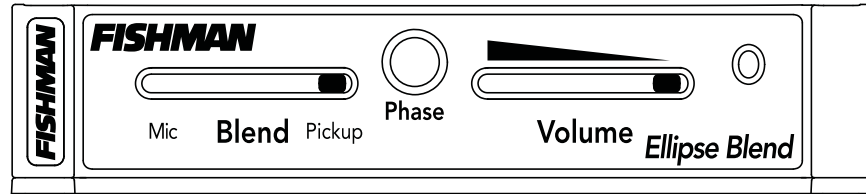
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**USER GUIDE  
ELLIPSE™ MATRIX BLEND**

## Quick Start

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- 1. Set the controls** • Set **Volume** off. Set the **Blend** control to **Pickup**.
- 2. Plug in** • Connect the Ellipse Matrix Blend to your amplifier or PA with a ¼-inch instrument cable.
- 3. Turn up** • Raise the **Volume** and adjust the **Blend** control to your liking.



## Controls

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**Volume** • For the cleanest signal, set the **Volume** knob as high as possible, without causing distortion or feedback.

**Blend** • Move the **Blend** slider to change the balance between the pickup and the microphone.

**Phase** • Use the **Phase** switch to improve bass response at low volume and suppress feedback at high volume.

**Gooseneck Microphone** • This quality electret-condenser cardioid microphone will provide very high-level sound reproduction before feedback when used in conjunction with the unit's phase switch.

## Controls (continued)

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### Microphone Position

Position the microphone to find the “sweet spot” inside the instrument. Take the time to experiment with microphone placement until you find the position that works best in your instrument.

Plug in the guitar and move the Blend slider to the left for mic only. Start with the mic capsule so that it faces the back of the guitar. Move the mic closer to the soundhole for more bass. Turn the capsule toward the sides of the instrument for less bass.

### Microphone Trim

The microphone and pickup levels are preset at the factory and do not require adjustment. However, a microphone trim control (recessed below the **Volume** slider) may be adjusted to alter the microphone and pickup balance. Set the **Blend** slider to the center position and adjust the trim control as necessary.

### Voicing Switch

This switch selects how the pickup is voiced. Move the **Voicing Switch** towards the **Volume** slider for bass boost and towards the **Blend** slider for a flat response. Choose the setting that works for your instrument and your performance requirements. Here are some guidelines:

- The boosted bass voicing (switch towards the **Volume** slider) complements solo guitarists and singers who accompany themselves, especially with smaller instruments.
- The flat voicing (switch towards the **Blend** slider) cuts through the mix if you play in a band. It does a good job controlling boominess and low frequency feedback onstage, especially with full-size guitars.

## Battery Replacement

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When the battery is low you will hear distortion as you play through the Ellipse system. Remove the strings to access the battery inside the guitar. Replace with a fresh 9V alkaline battery.



We recommend that you remove the battery from its bag prior to shipping or airline travel. If loose inside the guitar, the battery may damage the instrument.

## Specifications

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Typical 9V alkaline battery life:	150 hrs.
Nominal output impedance:	1k Ohm
Maximum output level (onset of clipping):	+7dBV
Dynamic range (A-weighted):	111dB
Noise floor:	-104dB
Voicing Switch	
"Bass Boost":	
Frequency response:	50Hz – 20kHz
Bass boost:	+6dB @ 90Hz
"Flat":	
Frequency response:	50Hz – 20kHz
High-pass shelving filter:	-3dB @ 350Hz

All specifications subject to change without notice.

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