



### MODEL P180 UHF ACTIVE DIRECTIONAL ANTENNA

Line 6 P180 is an active UHF wireless directional antenna for use with 2.4GHz receivers including Line 6 Relay® G55, Relay G90, XD-V55, XD-V75 and XD-V70. It features a patch array. When compared to an omnidirectional 1/2-wave antenna, the cardioid pattern provided by the P180 offers enhanced reception within the desired coverage area and greater rejection of RF signals outside the coverage area.

To compensate for coaxial cable signal loss, the P180 has an on-board amplifier that offers user selectable 3dB, 12dB or 23dB of gain.

The P180 can be mounted on a microphone stand using the integrated adapter. For best diversity performance, use two P180 antennas.

### INSTALLATION INSTRUCTIONS

1. Determine the length of cable required to connect the P180 antenna to the Relay or XD receiver.

**IMPORTANT: Always use low-loss 50-ohm cable such as LMR-195 or equivalent. Line 6 AEC25 7.6 m (25 ft.) or AEC50 15.2 m (50 ft.) cables are recommended.**

2. Set the gain switch to the appropriate setting. If you are using coaxial cables up to 7.6 m (25 ft.) long, select the 25' position. If using cables between 7.6 m (25 ft.) and 15.2 m (50 ft.), select the 50' position. If using cables longer than 15.2 m (50 ft.), select the 100' position. (Access to the gain switch is on the back side of the antenna. Gain settings are marked on the PC board next to the cable length selector.)
3. Connect one end of the antenna cable to the P180. Then mount the antenna so that it points toward the intended coverage area. See Figure 1.
4. Connect the other end of the antenna cable to the Relay or XD receiver. The blue power LED on the P180 illuminates to verify that power is being provided to the antenna.

**IMPORTANT: Always perform a “walk” test to verify coverage before using a wireless system during a performance. Experiment with antenna placement to find the optimum location for the P180.**

NOTE: For additional technical assistance, please visit [line6.com/support](http://line6.com/support).

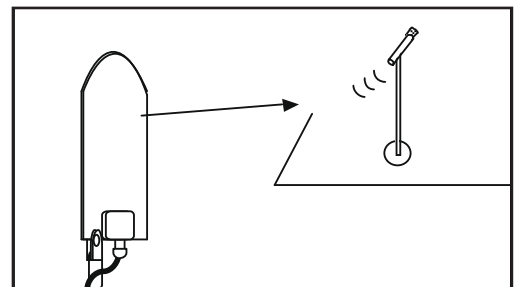


Figure 1

### SPECIFICATIONS

#### Power Source

Remote 2.8 min - 3.6 max Vdc @ at antenna via cable connection to receiver

#### Power Consumption

0.2 W (3 Vdc)

#### Antenna Gain

12dB typical (on axis)

#### Amplifier Gain

Gain Switch at 25': 3dB  $\pm$  2dB  
Gain Switch at 50': 12dB  $\pm$  2dB  
Gain Switch at 100': 23dB  $\pm$  2dB

#### Reception Pattern

Directional; Cardioid  
3dB Beamwidth, 90 degrees

#### Connector

Female, BNC-type

#### Dimensions

5.85 in. (148.6 mm) x 6.6 in. (167.9 mm)

#### Stand Adapter

Mic clip standard 5/8 in. -27 thread

#### Net Weight (without cable)

4.5 oz. (128 grams)