



PA805X

Passive Directional Antenna

Shure online user guide for PA805X directional antenna.
Version: 3.0 (2020-H)

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PA805X

Passive Directional Antenna

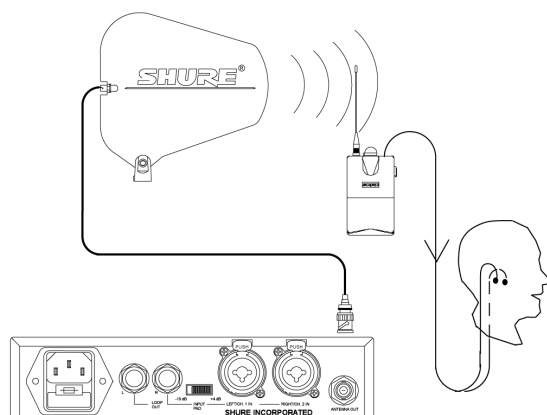
General Description

The Shure PA805 is a directional antenna for increased range and reduced interference as compared to omnidirectional 1/2-wave antennas.

The PA805 can be mounted on a microphone stand or mounted to a wall using the integral swivel adapter bracket.

Using too many transmission antennas in one installation can reduce performance. To combine PSM antennas, use a PA821A Antenna Combiner.

Installation Instructions



1. Determine the length of cable required to connect the PA805 Antenna to the Wireless Transmitter or Antenna Combiner. Use only as long a cable as necessary, because there is more power loss with longer cables.

Always use low-loss 50 ohm cable, such as RG-8X or equivalent. Shure UA825 7.6 m (25 ft.) or UA850 15.2 m (50 ft.) cables are recommended.

2. Use antenna cable to connect the antenna to the ANTENNA OUT of the Wireless Transmitter or Antenna Combiner.
3. Mount the antenna so that it points toward the intended coverage area.

Cable Selection

Cable	Length	Type	Loss at 650 MHz
PA725	3.0 m (10 ft)	RG-58/U	1.4 dB
UA825	7.6 m (25 ft)	RG-8/X	2.8 dB
UA850	15.2 m (50 ft)	RG-8/X	5.6 dB

For additional technical assistance, call the Shure Customer Service Department.

Cable Maintenance

To maintain top performance for antenna cables:

- Avoid sharp bends or kinks in the cables.
- Do not deform cables with makeshift clamps, such as bending a nail over the cable.
- Do not use in permanent outdoor installations.
- Do not expose to extreme moisture.

Antenna Placement

Use the following guidelines when mounting antennas:

- Antennas and receivers must be from the same band.
- Mount antennas at least one wavelength (two feet) apart.
- Position antennas so there is nothing obstructing a line of sight to the transmitter (including the audience).
- Keep antennas away from metal objects.

Always perform a "walk around" test to verify coverage before using a wireless system during a speech or performance. Experiment with antenna placement to find the optimum location. If necessary, mark "trouble spots" and ask presenters or performers to avoid those areas.

Find More Information Online

For more information, visit <http://www.shure.com>.

Specifications

Frequency Range

PA805SWB	470–952
PA805X	650–1100

Dimensions

H x W x D

PA805SWB	334 x 378 x 27 mm (13.15 x 14.88 x 1.10 in.)
PA805X	226 x 234 x 27.9 mm (8.90 x 9.21 x 1.10 in.)

Net Weight

PA805SWB	11.3 oz. (319 g) with mounting accessories
PA805X	8 oz. (227 g)

Antenna Gain

PA805X	6 dBi typical
PA805SWB	6.5 dBi typical
3 dB Beam Width	100 degrees

Radiation Pattern

Directional; Cardioid

Connector

50 Ω, Female, BNC-type

Stand Adapter

5/8-27 thread mount

Optional Accessories

25 ft. BNC-BNC Coaxial Cable	UA825
50 ft. BNC-BNC Coaxial Cable	UA850
Eight Port PSM Antenna Combiner, 470-952	PA821A