



User Guide
Le Guide de l'Utilisateur
Bedienungsanleitung
Manuale d'uso
Guia del Usuario
Guida dell'Utente
Gebruikershandleiding
Руководство пользователя
Репддипа Panduan
取扱説明書
사용자 안내서
用户指南

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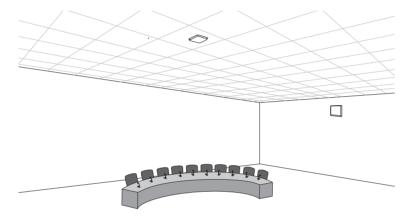


General Description

The UA864 antenna provides wideband RF coverage in an easy to install, low-profile enclosure that can be mounted on a wall, ceiling, and even on metal surfaces with improved reception. The paintable, neutral white housing allows the antenna to blend into corporate or classroom settings. The 4-position selectable gain switch provides attenuation and boost settings to match the antenna to the environment.

Model Variations

UA864US: 470-698 MHz **UA864LO:** 470-698 MHz **UA864HI:** 530-790 MHz **UA864A:** 650-952 MHz



Features

- Wideband performance
- · Low-profile design
- · Wall or ceiling mounting options
- · Four-position gain switch
- · Metal surface mounting capability
- · LED indicators for gain settings
- · Neutral white, paintable housing

Antenna Placement

Use the following guidelines when mounting antennas:

- Antennas and receivers must cover the same frequency range.
- Mount antennas at least four feet apart for optimal diversity.
- Position antennas so there is nothing obstructing a line of sight to the transmitter (including the audience).

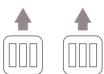
Positioning Antennas for Diversity Reception

The UA864 is a polarized antenna and must be oriented correctly to optimize reception for each transmitter type. Position the antennas using the following guidelines:

Note: Use the gain switch as an indicator of the antenna orientation.



Handheld and Bodypack Transmitters (vertical)



Boundary Microphones (horizontal)



Mixed Transmitter Types (vertical and horizontal)



Find More Information Online

For setup tips and more information on wireless accessories, visit http://www.shure.com/WirelessAccessoryWizard

Installation

Mounting on a Wall or Ceiling

The mounting plate installs directly to a wall, ceiling, or a standard junction box.

Required Equipment

- #8 or #6 screws
- · Flat washers
- · Lock washers
- Drill
- Screwdriver

Installation Steps

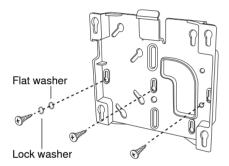
1. Align the mounting plate:

Junction box mounting: Align the mounting plate with the junction box so that at least two screws can be used.

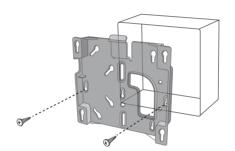
Wall mounting: Use the mounting plate as a template to mark the location for the holes on the mounting surface. Drill the holes accordingly.

- 2. Secure the mounting plate to the surface with the washers as shown (CAUTION: Do not over-tighten screws).
- 3. If running RF cable from inside the wall, guide it through the opening in the mounting plate and connect the cable to the antenna output.
- 4. Position the antenna mounting posts over the keyhole slots in the mounting plate and slide it into the locked position.

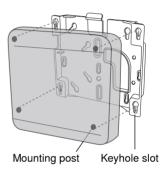
Mounting to a wall or ceiling



Mounting to an electrical junction box

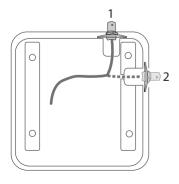


Securing the antenna to the mounting plate



Routing the Cable

The output connector can be routed through ports 1 or 2 on the antenna. When connecting to an RF cable in the wall, run the cable through the opening in the mounting plate.





Rotating the Cover

The cover can be detached and rotated in any direction for a matched appearance when using multiple antennas.

- 1. Remove the screws holding the cover in place from the back of the antenna
- 2. Remove the cover and rotate to the desired position
- 3. Replace the screws to secure the cover

Painting the Antenna

The cover of the antenna can be painted to match the installation environment. Use the following guidelines when painting the antenna cover:

- · Remove the antenna cover before painting
- Only use non-metallic paint, as any metallic content may interfere with RF reception
- · Allow the paint to dry completely before reinstalling the cover
- · Avoid painting in the screw holes

Warning: Do not touch the internal components of the antenna when the cover is removed.

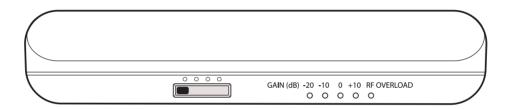
Connecting to a Receiver

This antenna is compatible with any receivers, distribution systems, and splitters that operate within the antenna's frequency range. For receivers with multiple antenna ports, connect each antenna being used to a separate port.

Note: The antenna requires bias voltage from the receiver or distribution system to operate on the +10 dB setting and for LED functionality. If these devices do not supply bias voltage, the Shure UABIAST inline power supply can be used. The antenna still operates with all other gain settings if bias voltage is not supplied.

Setting the Gain Switch

Use the gain switch to optimize antenna performance for the RF characteristics of the room or location. Monitor the RF signal from the receiver to ensure optimal signal strength.



RF Gain Setting (dB)	Use Scenario
Pad: -10, -20	Provides increased isolation from other RF sources when the desired wireless microphone signal strength is strong. If the RFOVERLOAD LED illuminates when using a higher gain setting, the pad should be used to attenuate the signal, but only after verifying that the transmitter is an appropriate distance from the antenna.
0 (Default)	Suitable for typical room installations and provides enough RF gain in most cases when cable runs are between 10 and 50 feet.
Boost: +10	Provides an extra 10 dB of RF gain to compensate for signal loss if using long cable runs (50 feet or more).

Note: Bias power supplied by receiver antenna ports or an external power source is required for the +10 dB boost setting and for illuminating the LEDs. For un-powered applications, the -20, -10, and 0 dB settings are still functional; however, the LEDs will not illuminate.

Cable Maintenance

To maintain top performance for UA825, UA850 or UA8100 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.

Specifications

Connector Type

BNC, Female

Impedance

50 Ω

Power Requirements[1]

10 to 15 V DC bias from coaxial connection, 75 mA

RF Frequency Range

UA864US	470–698 MHz
UA864LO	470–698 MHz
UA864HI	530-790 MHz
UA864A	650-952 MHz

Reception Pattern

3 dB Beam Width at center frequency

UA864US	100 degrees	
UA864LO	100 degrees	
UA864HI	95 degrees	
UA864A	90 degrees	

Third-order Overload Intercept Point (OIP3)

>30 dBm

Antenna Gain

On Axis, 0 dB Gain Setting at center frequency

UA864US	2.5 dBi	
UA864LO	2.5 dBi	
UA864HI	3.0 dBi	
UA864A	5.5 dBi	

Signal Gain

±1 dB, Switchable

+10 dB

0 dB

-10 dB

-20 dB

RF Overload LED Threshold

-15 dBm

Dimensions

176 x 176 x 51 mm (H x W x D)

Weight

487 g (17.2 oz.)

Operating Temperature Range

-7°C (20°F) to 49°C (120°F)

Storage Temperature Range

-29°C (-20°F) to 74°C (165°F)

[1]-20, -10, 0 dB settings do not require power

Antenna Cables from Shure

Shure offers the following pre-terminated antenna cables:

Length	Туре	Model No.
6 foot	RG58	UA806
10 foot	RG58	PA725
25 foot	RG8X	UA825
50 foot	RG8X	UA850
100 foot	RG213	UA8100

Certifications

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

The CE Declaration of Conformity can be obtained from: www.shure.com/europe/compliance

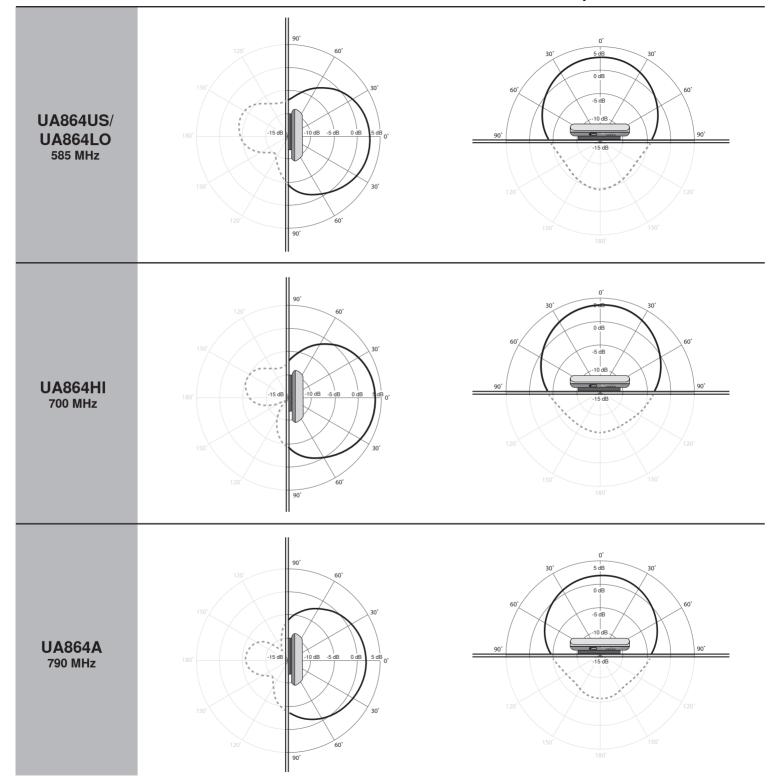
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