The Shure UA844SWB antenna distribution system user guide.
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Shure Incorporated

UA844plus SWB
Antenna Distribution System

General Description

The Shure Model UA844+ is an antenna distribution system that allows for the expansion of wireless microphone systems by splitting one pair of antennas to multiple receivers. It also amplifies RF signals to compensate for insertion loss that results from splitting signal power to multiple outputs. A single UA844+ system can support up to five wireless receivers. A maximum of five UA844+ systems may be used in a two-tiered configuration.

Model Variations

UA844+ Model Variations

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
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<tbody>
<tr>
<td>UA844+V</td>
<td>174-216 MHz</td>
</tr>
<tr>
<td>UA844+SWB</td>
<td>470-960 MHz</td>
</tr>
<tr>
<td>UA844+Z16</td>
<td>1240-1260 MHz</td>
</tr>
<tr>
<td>UA844+Z17</td>
<td>1492-1525 MHz</td>
</tr>
<tr>
<td>UA844+Z18</td>
<td>1785-1805 MHz</td>
</tr>
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Note: Some units include a power switch on the front panel to meet regional regulations.

Accessories

System Components

- Front-mounting antenna hardware
- Rack-mounting hardware
- External power supply
- (2) 6 ft. BNC cables
- (4) Non-locking DC power cords (QLXD4, SLX4, BLX4R)
- (10) 22 in. BNC cables*
- (4) Locking DC power cords** (ULXD4)

*Model UA844+/LC substitutes (2) 22 in. BNC cables.
**Not included with Model UA844+/LC

Optional Accessories

| 1/2 Wave Omnidirectional Receiver Antenna for improved wireless signal reception | UA8   |
In-Line RF Amplifier compensates for signal loss over extended cable runs  

UA834

UA874 Active Directional Antenna for improved wireless signal reception with greater rejection of unwanted signals  

UA874

1/2 Wave Antenna Remote Mount Kit  

UA505

Antenna Rack Panel with Cables and BNC Adapters  

UA440

Note: Be sure to select antennas and accessories that are compatible with the operating frequency range of your wireless system. Contact Shure or your local retailer for help with selecting the right wireless accessories.

Selecting Antenna Cables

Use 50 ohm low-loss coaxial cable, such as RG-8U. Shure offers pre-terminated antenna cables ranging from 6 to 100 feet.

NOTE: When ordering cables from Shure, select the low-loss "Z" models (available for longer cables) when using frequency bands above 1000 MHz.

Specifications

Power Requirements

14 to 18 V DC

DC Output

14 to 18 V DC (x4)

Output Current  

Combined total from all DC outputs  

2.5 A, maximum

Operating Temperature Range

-18°C (0°F) to 63°C (145°F)

Dimensions

45 x 483 x 172 mm (H x W x D)

Net Weight

1.62 kg (3.6 lbs)

Connector Type

BNC

RF Frequency Range  

model dependent  

174 to 1805 MHz

Bias Voltage

15 V DC (150 mA, maximum) (x2)
Impedance
50 Ω

RF Frequency Range
model dependent
174 to 1805 MHz

Output Intercept Point
21 dBm, typical

Connector Type
BNC

Impedance
50 Ω

Output Connector Isolation
30 dB, typical

Gain
Input to any output port (Unused ports terminated in 50 Ω)
-1 to +1 dB

FRONT AND REAR PANELS
① Antenna A Connector
② Power Indicator
③ Power Switch(country dependent)
④ Antenna B Connector
⑤ 15 V dc (2.54 A) power input
⑥ Power Output for receivers. Do not connect to additional distribution systems
⑦ RF Input Antenna B
⑧ Cascade (2)
⑨ RF Output B
⑩ RF Output A
⑪ RF Input Antenna A
Connecting Multiple UA844 Systems
① Connect additional systems to the A/B ports of the top level UA844.
② Connect additional systems on the second level to the A and B antenna inputs.
③ Connect each receiver (RX) to the A/B output port pairs on the UA844.

Rear panel connections for each level of RF and power distribution

Certifications
The CE Declaration of Conformity can be obtained from Shure Incorporated or any of its European representatives. For contact information please visit www.shure.com

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

Authorized European representative:
Shure Europe GmbH
Headquarters Europe, Middle East & Africa
Department: EMEA Approval
Jakob-Dieffenbacher-Str. 12
75031 Eppingen, Germany
Phone: +49-7262-92 49 0
Important Product Information

LICENSING INFORMATION

Licensing: A ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements. Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate the equipment. Licensing of Shure wireless microphone equipment is the user’s responsibility, and licensability depends on the user’s classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.