



ANTENNA SYSTEMS

ADU.24

USER GUIDE



DUAL 24 WAY ANTENNA
DISTRIBUTION UNIT

The RFdevices ADU.24 is an antenna distribution system that allows for the expansion of true diversity or diversity 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 ADU.24 system can support up to twenty-four (24) wireless receivers, distributing both RF and power to each. The B antenna outputs have 13v phantom powered onto them to power Sennheiser wireless receivers.

Variants

ADU24-LC No cables

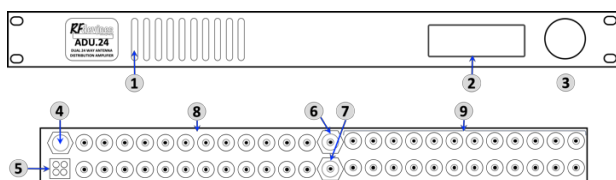
ADU24-SE 48x BNC-BNC Patch cable,

ADU24-AP 48x BNC-BNC Patch cable, DC loom to power 8 receivers

Optional Accessories

- **RF-HW5B** Half wave 4870-608 MHz half wave whip antenna
- **ALP1** Active log periodic dipole array directional antenna
- **ALP3/ALP4** Active log periodic dipole array directional antenna with selectable gain settings
- **ALA.1-pr** 2x In-line RF signal amplifiers to boost signal lost over long distance transmission
- **AP2** Remote antenna mounting panel with BNC connectors and 2 20" BNC-BNC cables
- **RF-WMPI** Remote antenna wall mounting plate with BNC through connector (white, black or grey plate) fits standard electrical back box

Front & Rear Panels



LEGEND – FRONT PANEL

- ① Air vent slots
- ② LCD display
- ③ Data wheel

LEGEND – BACK PANEL

- ④ AC power cable
- ⑤ DC power outs (2 x 10A 13v)
- ⑥ Antenna A input
- ⑦ Antenna input B
- ⑧ Antenna outputs B
- ⑨ Antenna output A

System Components

- **ADU24-LC**
 - ▶ ADU24 active dual 24 way antenna distribution amplifier
 - ▶ 2x 13v 10A internal power supplies with fixed cable
 - ▶ ADA28-m user manual
- **ADU24-SE**
 - ▶ ADU24 active dual 24 way antenna distribution amplifier
 - ▶ 2x 13v 10A internal power supplies with fixed cable
 - ▶ RFC-BB-SET set of 48 BNC to BNC patch cables of choosing usually 9-10 eo 4", 6" 8" 10" and 12" but can choose
 - ▶ ADU24-m user manual
- **ADU24- AP**
 - ▶ ADU24 active dual 24 way antenna distribution amplifier
 - ▶ 2x 13v 10A internal power supplies with fixed cable
 - ▶ RFC-BB-SET set of 48 BNC to BNC patch cables usually 9-10 eo 4", 6" 8" 10" and 12" but can choose
 - ▶ PDL-24 dual daisy chain loom of 24 5.5mmx2.1mm DC connectors
 - ▶ ADU24-m user manual

Note: Be sure to select antennas and accessories that are compatible with the operating frequency range of your wireless system. Contact RFdevices, Bodymics or your local retailer for help with selecting the right wireless accessories. Always use 50ohm cables.

Specifications

Power Requirements:	Universal 95-265 vAC
DC Output:	13vDC
DC Out Current:	350mA per BNC (short circuit protected)
	Dual 10A outputs from 4pin square connector
Operating Temperature:	-0° to 145° F
Dimensions:	1.75" x 18.9" x 8.5" with connectors
	chassis is 7" behind front panel to back panel
Net Weight:	7.25lbs (3.29kg)
RF Band:	470-900MHz
Input & Output Impedance:	50ohm
Output Connection Isolation:	>30dB
Gain:	-6 to 6dB typical
Connector Type - Input:	BNC
Connector Type - Output	BNC
Bias Voltage to power antennas:	10vDC @ 150mA max

Distribution

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