

PRO-ATDS

Antenna Distribution System

VAL audio

Die Liebe zur Musik



OVERVIEW

The VAL Audio PRO-ATDS Antenna Distribution System is a professional-grade solution engineered to deliver uncompromising RF performance in today's demanding wireless microphone environments. Built on advanced circuitry with low-noise design and exceptional intermodulation suppression, it ensures reliable and interference-free signal distribution across a wide 450 - 950 MHz operating range.

With dual BNC antenna inputs and four pairs of diversity outputs, the PRO-ATDS allows a single pair of antennas to feed multiple receivers with consistent signal integrity. Its user-adjustable RF gain (-10 dB to +6 dB) provides flexibility to optimize performance in different venues, whether compensating for long cable runs or managing high-RF environments.

Designed with practicality in mind, the system integrates DC powering for both receivers and active antennas, simplifying setup and reducing the need for multiple external supplies. Status LEDs provide clear operational feedback, while the unit's rugged 19" rack-mount chassis ensures durability for touring, rental, and fixed installations.

From broadcast studios and large-scale events to houses of worship and corporate AV, the VAL Audio PRO-ATDS delivers a single, dependable platform that combines wideband compatibility, robust construction, and seamless scalability - making it the preferred choice for professionals who demand stability, clarity, and efficiency from their wireless systems.

KEY FEATURES

- Wideband operation from 450 - 950 MHz
- Distributes one pair of diversity antennas to up to 4 pairs of diversity outputs
- Low-noise design with excellent intermodulation rejection
- User-adjustable RF gain: -10 dB to +6 dB
- Provides 12V DC powering for receivers and 8V DC / 100 mA for active antennas
- Clear power and status LED indicators
- Rugged 19" rack-mountable metal chassis for touring and installations
- Compatible with analogue, digital-hybrid, and full-digital wireless systems
- Supports long cable runs while maintaining maximum signal integrity

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APPLICATIONS

- Professional wireless microphone systems
- Touring & rental sound companies
- Broadcast studios and OB vans
- Large conference and corporate AV setups
- Houses of worship and auditoriums
- Theatres and live performance venues

SPECIFICATIONS

Frequency Range (RF)	450 - 950 MHz
RF Gain	-10dB to +6dB (adjustable)
DC Input	12V DC, 3A
DC Output for Antennas	8V DC / 100 mA (per input)
DC Output for Receivers	12V DC
Connectors (RF I/O)	BNC
Impedance	50Ω
VSWR (Voltage Standing Wave Ratio)	< 1.6:1
Directivity	180°
Operating Temperature	-18 °C to +63 °C (0 °F to 145 °F)
Construction	Glass copper with mirror layer
Form Factor	19" rack-mount unit
Package contains	2 x 4 m BNC cables 8 x 20" BNC cables 4 x DC power cables External power supply
Dimensions	Receiver (WxHxD): 483 x 50 x 200 mm Antenna (WxHxD): 347 x 310 x 29 mm
Net Weight	Receiver: 1.7 Kg Antenna: 2 x 300 Gram