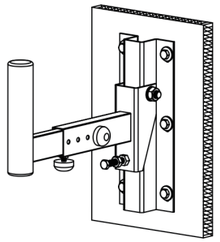
Active Professional Speaker With DSP

RPD-10B

RPD-12B

RPD-15B



RPD-15BRK

Installation bracket



Model NO.	RPD-10B	RPD-12B	RPD-15B
Effective Frequency Range (-10dB)	68Hz-20kHz	65Hz-20kHz	55Hz-20kHz
Horn unit	1×10" + 1×1.4"	1×12" + 1×1.4"	1 × 15 "+1 × 1.73"
Rated Impedance (±20%)	8Ω	8Ω	8 Ω
Speaker Power	200W (AES), 800W (PEAK)	300W (AES), 900W (PEAK)	400W (AES), 1600W (PEAK)
Sensitivity Level (±2dB)	94dB/w/m	97dB/w/m	97dB/w/m
Sound pressure level within the specified frequency band	≥116dB	≥122dB	≥ 124dB
Total Harmonic Distortion	≤3%	≤1%	≤ 1%
Coverage Angle (Horizontal/Vertical)	100° x 60°	90° x 60°	90 ° x60 °
Return angle	53°	53°	53 °
Socket	2×NL4 Speakon		
Structural features	The speaker features a compression-type structural vent, which enhances low-frequency energy and extends its propagation distance.		
Installation methods	wall-mounted, U-shaped, base tray		
Cabinet material	Professional wood panel, not cheap medium-density fiberboard		
Net weight	17Kg	23 kg	30kg
Product dimensions (W×D×H)	300×282×498mm	360×318×598mm	430 × 416 × 670mm

Professional Speaker



Built-in Amplifier Parameters

- Amplifier module output power: ≥900W at 8Ω (distortion rate ≤1%).
- DSP Functions: Compressor, Limiter, Noise Gate, Parametric Equalizer, Matrix Routing, Delay, Filter.
- Network: TCP/IP control for network, enabling multi-device management and remote channel switching.
- Power Amplifier Interface: 2x RJ45 TCP/IP universal interface with volume knob, 1 XLR balanced input, 1 XLR balanced output.
- Status: The front of the speaker features a software-controlled LED indicator, enabling quick determination of the device's online status (optional);
- Power Supply: Wide voltage operation, supports 100/240VAC input.
- Amplifier Protection Function: Short Circuit Protection.
- Other amplifier protection functions: Input current limiter, mute during power on/off, DC power failure protection, power limiter, fan cooling.
- Operating Information: Features a color LCD display that intuitively shows: overall device temperature, input sensitivity, mute status display, level display. Panel functions can be configured for screen lock to prevent accidental operations, and include overload alerts, which will dominate the screen with warning messages when input signals exceed limits.
- Software Features: PC software with remote management capabilities, supporting USB, TCP/IP, and RS485 interface connections for device linking. Includes DSP and status monitoring, call functions, supports 30 preset scene configurations, and allows independent storage and retrieval of full-unit and channel parameters.
- Display: Key information such as temperature, power, voltage, current, impedance, gain, and phase;
- Software Management Function: Supports cascading control of up to 254 machines, enabling simultaneous control of powered speakers, media matrices, and professional processors.
- Extended Functionality: Supports integration with IoT control cloud platforms for audiovisual systems from the same manufacturer, enabling unified management of all audio devices and status anomaly alerts to ensure stable and normal daily operation.