DENON

DELTA12

12-INCH 2-WAY 2400-WATT LOUDSPEAKER WITH WIRELESS CONNECTIVITY

For situations that demand the ultimate in speaker performance, Denon Professional proudly offers the Delta Series—a family of powered loudspeakers that delivers the very highest level of acoustic performance, essential for critical musical productions, dynamic AV playback and clear, articulate spoken presentations. The Delta Series was designed from a clean sheet of paper to exacting performance standards, using custom-developed, purpose-matched components.

The Delta 12 features an integral low-distortion Class D amplifier capable of 2400 watts peak (1200 watts continuous) output, rugged, linear transducers, DSP-controlled custom crossovers, EQ contour switch and a computer-designed high-frequency waveguide for an optimized 90° x 60° coverage field and extremely flexible connection/control facilities for adapting to any usage condition. Plus, it utilizes dynamic thermal protection, to ensure crystal-clear sound reproduction at any volume level.

However, it's not the printed specifications or the number of inputs and outputs that qualifies the Delta 12 as such an elite performer. It's the performance. The sound is effortless, clear and natural. There is no sense of strain or coloration. With lesser speakers, the listener can immediately hear the "reproduced" nature of the sound; that unmistakable nasal artificiality and edgy, strident distortion that betrays the sound of an inaccurate speaker system.

When you hear the Delta 12, it sounds like real life. The full frequency range is conveyed with absolute authority, providing convincing, realistic sound from any genre of music. Bass instruments are full and muscular. Vocals are distinct and precise, while horns are rich and energetic, their characteristic "sheen" perfectly preserved. Drums and percussion have great impact and impressive weight. Even today's complex, multi-layer music is reproduced with agility and nuance at any volume, from subtle indoor setting to full-volume outdoor concert. When you need even greater low-frequency extension and output, simply add either the Delta Series 15 S or 18 S subwoofer to create a system of absolutely uncompromised capability.

Denon Professional recognizes that adaptability and connection flexibility are just as important to demanding professionals as outstanding sonic performance. Therefore, the Delta 12 features a built-in mixer with multiple inputs and outputs. The cabinets are scratch-resistant, fronted with a powder-coated metal grille, perfect for anything from vocal reinforcement in a lecture hall to multimedia presentations in convention centers and any critical music assignment imaginable. Even their rubber feet are reinforced with steel. You can hang the Delta 12 via their integrated M10 rigging points or use them as floor wedge monitors. They can also be mounted via the built-in 35mm pole sockets. This level of connection and mounting options means that virtually every situation benefits from using Delta Series loudspeakers.

LIVE DRIVE APP

Even if you can't physically reach the speakers, you can still adjust them with your iPad or iPhone with the Live Drive app. With our wireless technology, you can precisely tailor the performance parameters of your Delta Series loudspeakers remotely. Level-match, adjust EQ, delay-compensation and more—from virtually anywhere. It's streamlined, sound-shaping control at your fingertips, so you can easily adapt the Delta Series to new venues or performances, even if you're away from the mix position.



FEATURES

- Unrivaled acoustic accuracy via advanced engineering and design
- 2400 watts peak Class D power (1200 watts continuous)
- 12-inch LF transducer, 1.75-inch HF driver with 1-inch acoustic aperture
- Optimized 90° x 60° sound coverage field
- Works with free Live Drive app for wireless sound-shaping control
- Wirelessly level-match, EQ, delay-compensation, and more
- DSP-controlled, custom crossover and active thermal protection
- Built-in mixer, (2) Mic/Line inputs, volume control, XLR output
- Limit/Clip indicator with red LED
- EQ contour switch; Ground Lift switch
- Trapezoidal cabinet with custom-molded heavy-duty handle
- Flyable via (12) M10 rigging points
- Designed and tuned in the U.S.A.
- Industry-standard 35mm pole-mount socket



Wireless Control Features:

SPECIFICATIONS

AC LINE POWER: SYSTEM CONFIGURATION: Power Supply Design: Fully regulated switching, 12-inch two-way, self-powered, System Type: horn-loaded HF with Power Factor Correction Input Voltage Nominal Range: 100-240 VAC, 50/60Hz **ACOUSTIC PERFORMANCE** Input Voltage Operating Range: 90-264 VAC, 50/60Hz Voltage Selection: Automatic (self-regulating) Frequency Range (-10 dB): 43-20kHz Power Connector: Frequency Response (+/-3 dB): 51-20kHz Male IEC Current Requirement: Maximum Peak SPL (Measured): 133 dB @ 1m 6A per system @ 120 VAC Coverage Pattern (Averaged): 90° H x 60° V 3A per system @ 240 VAC Directivity Index (D.I.): 9.5 dB AC Line Cord: 9.8 ft. (3m) IEC female to regional AC male, 18 AWG POWER AMPLIFICATION: CONNECTORS AND CONTROLS: Peak Power: 2400 watts (1600 watts LF + Input Connectors: 2 x XLR/TRS combo connectors, 800 watts HF) 1200 watts (800 watts LF + 400 Continuous Power: balanced Input Impedance: 10 K Ω balanced, 20 K Ω unbalanced watts HF) Input level Controls: 2 x rotary volume control Amplifier Topology: Class D/Switching, Bridged LF and HF Acoustic Polarity: Positive voltage applied to XLR Pin **Amplifier Cooling:** Passive 2 generates positive pressure from LF driver Line/Mic Level Selector: TRANSDUCER: Push-button switch 12-inch (305mm) cone transducer, (applies to Input 1 only) LF Transducer: Output Connector: 3-inch (76mm) voice coil, ferrite Male XLR Output Mix Control: Switch to select output mix magnet HF Transducer: 1.75-inch (44mm) voice coil, ferrite pre- or post-volume control Ground Switch: magnet compression driver with Push button to lift input signal 1-inch (25mm) exit input ground connection Bluetooth: Momentary contact to initiate **DSP FUNCTIONALITY:** Bluetooth pairing mode System Control: high-pass & low-pass crossover DSP Mode Selection: Momentary contact to cycle filters, transducer EQ and delay through DSP EQ modes DSP Modes Available: 5 total: Flat, Contour, 80Hz HP, compensation Transducer EXT LF, User excursion, thermal, and amplifier DSP Wireless Control: Live Drive™ iOS app clip protection. User Controls: Rear panel selection of 5 DSP EQ over Bluetooth Recessed push-button switch Grille Logo LED On/Off Control: modes: Flat, Contour, 80 Hz HP, Standby mode On/Off Control: Recessed push-button switch EXT LF, User LED Indicators: Signal Present / Limit, Power / Standhy WIRELESS CONTROL AND MONITORING: Bluetooth 2.0 + EDR. Class 2 RF Line Input Level Control Range: -∞ to 0dB. +4dBu nominal. Wireless Type: +10dBu for max output Wireless Range (typical): 82 ft. (25m) clear line-of-sight. -∞ to +50dB Live Drive™ (app by Alto Professional, Mic Level Control Range: Wireless Control App: available on the App Store) Simultaneous Devices Connectable: **ENCLOSURE:** 1 to 3 Delta Series loudspeakers Compatible Wireless Devices: iPhone 3GS and newer, Construction: 15mm and 18mm premium iPad 2 and newer, iPod touch plywood, internally-braced (4th generation) and newer Finish: iOS Version Requirements: iOS 6.1 and newer

Level Control ($-\infty$ to + 10dB),

Hz HP, Ext. LF, User) Rear Panel

Mute, Signal level metering (-70 to

0dB) DSP mode (Flat, Contour, 80

control lockout, 3 Band EO (Low,

high-pass filter, Monitoring (Limit,

Mid. High). Delay. Polarity. User

Peak, Fault)

Finish: High-durability, textured, catalyzed polyurethane, black

Mounting: 12 x M10 female threaded screw sockets

Handles: 3 x ergonomic handles with aluminum cross-bar

Stand mount: 1 x 35mm female socket

Grille: 1.2mm-thick perforated steel, black powder-coat

black powder-coat

Operating Temperature: -10°C to 40°C (14°F to 104°F)

Dimensions (HWD) 24.1" x 14.3" x 14.6" 611mm x 364mm x 372mm

Net Weight: 52.2 lbs (23.7 kg)



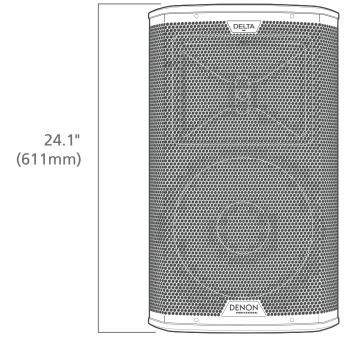
PHYSICAL PROPERTIES

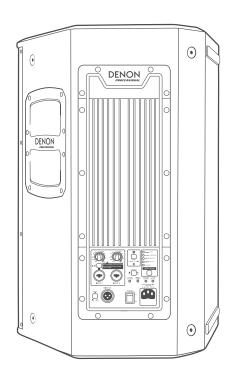
 Height
 24.1" (611mm)

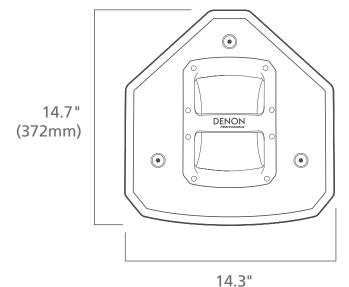
 Width
 14.3" (364mm)

 Depth
 14.7" (372mm)

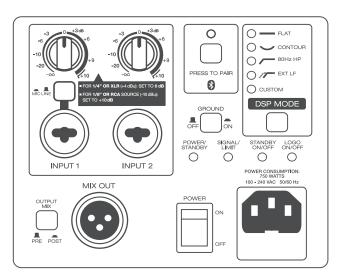
 Net Weight
 52.2 lbs (23.7 kg)





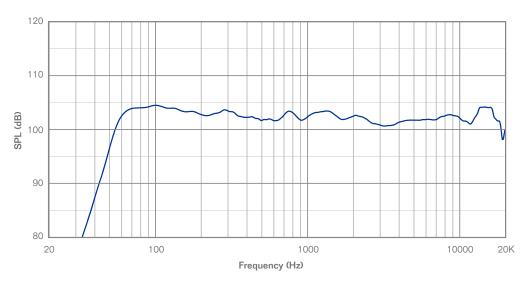


(364mm)

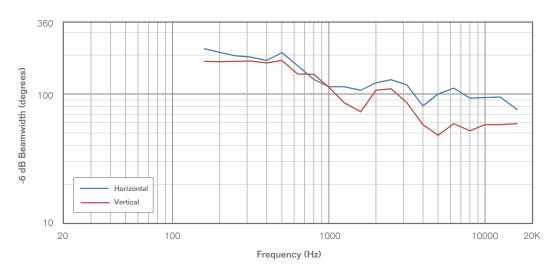




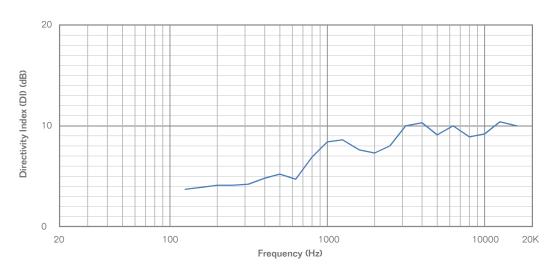
FREQUENCY RESPONSE ON-AXIS



BEAMWIDTH VS. FREQUENCY



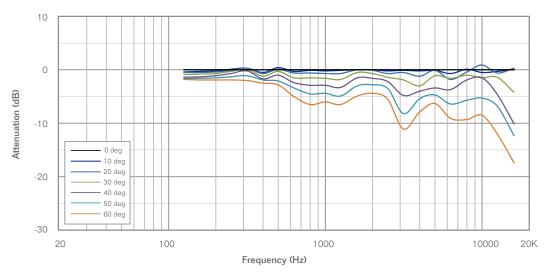
DIRECTIVITY VS. FREQUENCY



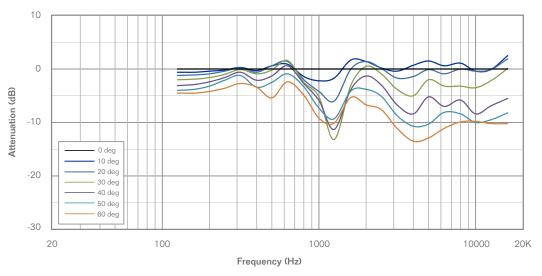
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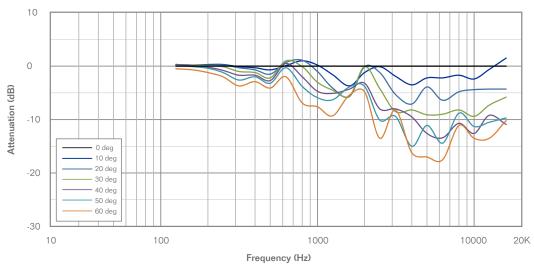
HORIZONTAL OFF-AXIS FREQUENCY RESPONSE



VERTICAL UP OFF-AXIS FREQUENCY RESPONSE



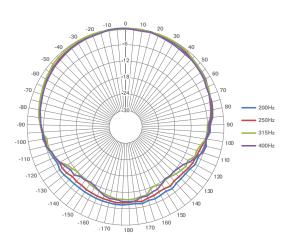
VERTICAL DOWN OFF-AXIS FREQUENCY RESPONSE

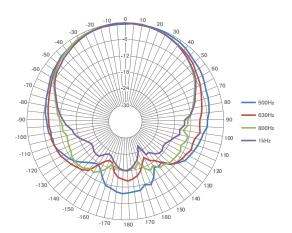


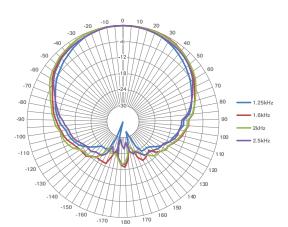
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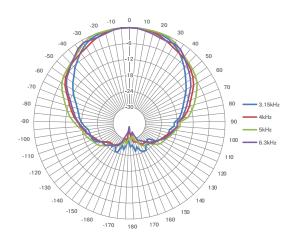


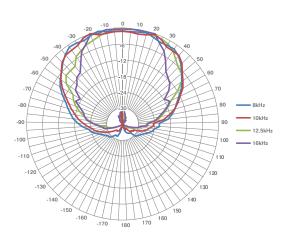
POLAR PATTERNS













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