

# opa 10 ACTIVE

onpointaudio™  
Acoustic Excellence™



The OPA-10 Active is a very compact, powered sound reinforcement system designed for high-level professional audio applications. The OPA-10 Active is a two-way design that utilizes a very large-format voice coil and high energy magnetics that maximize low-frequency output. The OPA-10 Active's amplifier module is a full class-D topology that features on-board DSP to create high-order active Linkwitz-Riley crossover filters and parametric equalization.

The power module features a total of 1,600 watts of peak power with a full 1,200 watts of peak power for the low-frequency section and 400 watts of peak power for the high-frequency section. Continuous low frequency power is 600 watts and high frequency continuous power is 200 watts. Both sections have compressor/limiter dynamics that are programmed to maximize dynamics and protection.

The woofer is a 10-inch (254mm) diameter neodymium-based design that features an extremely large 4-inch (101.6mm) diameter voice coil. This unusually large format voice coil in a compact system design insures very high power handling and best-in-class reliability.

The vented low frequency design of the enclosure is further optimized to a 6th order alignment via the on-board DSP and combines low frequency response extension and very high-order ultra-low frequency filtering to increase both the system's dynamic headroom and low-frequency transducer component reliability.

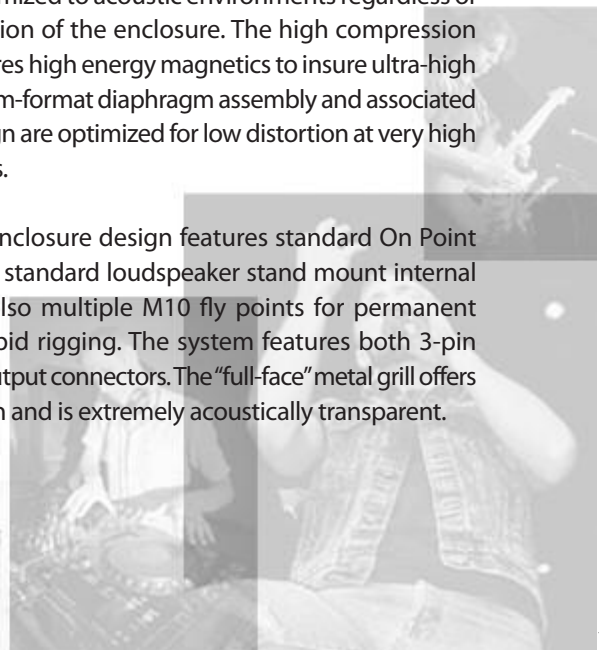
The OPA-10 Active system's sensitivity has been optimized for superior fidelity and clarity rather than artificially high on-axis sensitivity. The overall design of the system was based on integrating multiple parameters to achieve superior overall performance rather than an inappropriate focus on particular performance specifications. This

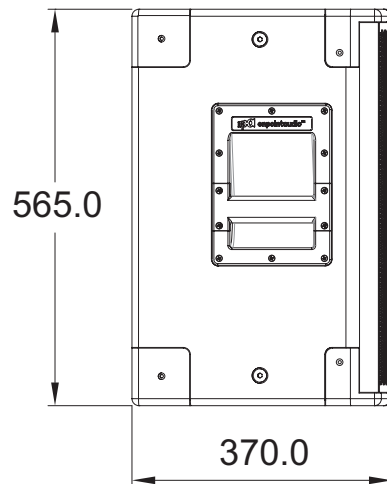
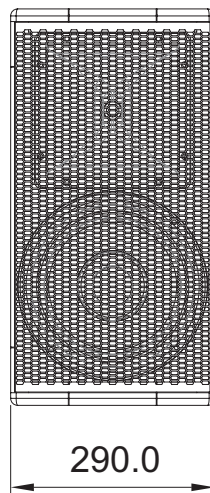
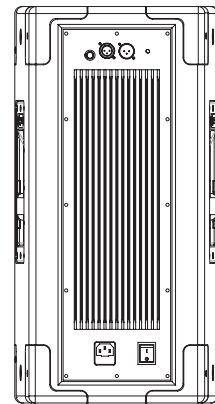
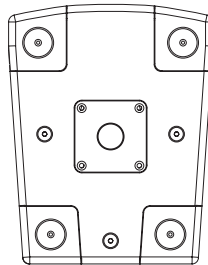
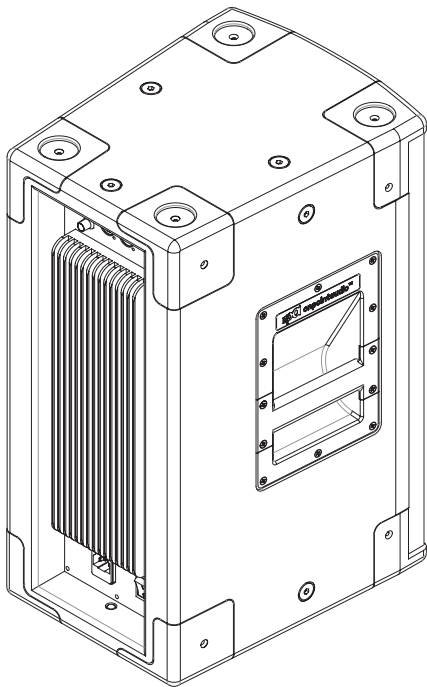
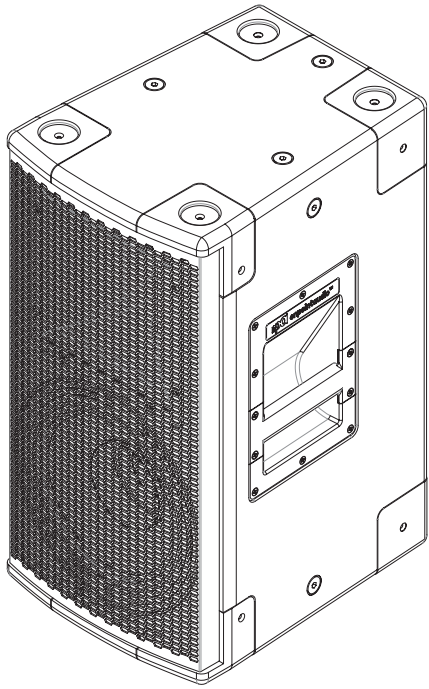
- **Ultra-compact, high-powered 10-inch two-way system**
- **On-board amplifier with 2,000 peak watts total – a 1,000 watt low-frequency amplifier and a 1,000 watt high frequency amplifier**
- **Built-in digital signal processing module with custom-tuned EQ, crossover, and dynamics parameters deliver maximum sound quality and output**
- **Fully-rotatable 90° x 40° high-frequency horn with 1.75-in (44.5-mm) pure titanium compression driver for horizontal or vertical placement**
- **10-inch woofer with large-format 4-inch voice coil and neodymium magnet**
- **Multiple M10 fly points for suspension or rigging plus a built-in pole mount enable use for fixed or mobile applications**
- **Heavy-duty marine-grade plywood enclosure with wear-resistant Polyurethane finish**

approach yields a superior overall system where all parameters are optimized to achieve the best possible performance and intelligibility. The OPA-10 Active features a marine-grade birch plywood enclosure designed for superior mechanical damping and excellent acoustic properties. The vented low frequency design allows superior mechanical reliability and low distortion output at very low frequencies.

The high frequency compression driver features On Point Audio's 1.75 inch (44.5-mm) professional compression driver and has an optimized waveguide throat design that provides wide bandwidth control of acoustic radiation. The nominal 90° x40° waveguide is ideal for the vast majority of both indoor and outdoor portable sound reinforcement applications and insures excellent direct-to-reflected acoustic ratios. This wave guide is fully rotatable allowing the system to be optimized to acoustic environments regardless of the physical orientation of the enclosure. The high compression ratio driver also features high energy magnetics to insure ultra-high efficiency. The medium-format diaphragm assembly and associated active crossover design are optimized for low distortion at very high sound pressure levels.

The OPA-10 Active enclosure design features standard On Point Audio handles and a standard loudspeaker stand mount internal adaptor. There are also multiple M10 fly points for permanent installation or for rapid rigging. The system features both 3-pin XLR-type input and output connectors. The "full-face" metal grill offers substantial protection and is extremely acoustically transparent.





## Specifications

System Type:	Powered 10-inch two-way full-range
Frequency Range (-10 dB):	60 Hz - 20,000 Hz
Frequency Response (-3 dB):	65 Hz - 20,000 Hz
Coverage Pattern (H x V):	90° x 40° rotatable
Total Power (Peak / Continuous):	2,000 / 1000 watts
LF Power (Peak / Continuous):	1,000 / 500 watts
HF Power (Peak / Continuous):	1,000 / 500 watts
Crossover Frequency / Type:	1,600 Hz / Linkwitz-Riley
LF Driver:	NP10N 10-inch
HF Driver:	ND175 1.75-inch titanium
Rated Max SPL (Peak / Continuous):	128 dB / 125 dB
Dimensions (H x W x D) inches:	22.2 x 11.4 x 14.57 in
Dimensions (H x W x D) mm:	565 x 290 x 370 mm
Enclosure Material:	Marine-Grade Plywood
Net Weight :	55 lb / 25 kg

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