Dynamic Audio Solutions

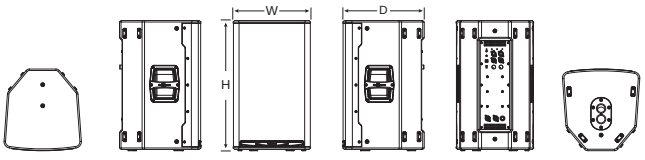
AVANDA 712A

The AVANDA 712A is a professional 12-inch two-way active point-source loudspeaker with excellent sound quality and reliable performance, perfectly suited for high-quality live sound reinforcement scenarios.

It is equipped with a 3.0-inch voice coil, 1.4-inch exit neodymium driver and 12-inch neodymium woofer.The horn provides uniform sound coverage of 100°x 60°, achieving a maximum sound pressure level of 132dB for premium and pristine audio output.

Built around precision-tuned FIR DSP, AVANDA 712A achieves optimized transient response, explosive dynamics and crystalline detail - all anchored by deep, tightly controlled bass that honors the integrity of the original signal.

CNC machined birch plywood cabinet, coated with polyurea, is waterproof, wear and high temperature resistant. Its compact, symmetrical design ensures structural stability and practical deployment, while the base supports 0° or 10° mounting angles to accommodate a wide range of sound reinforcement applications.



Dimension(W×H×D)：366×610×385mm

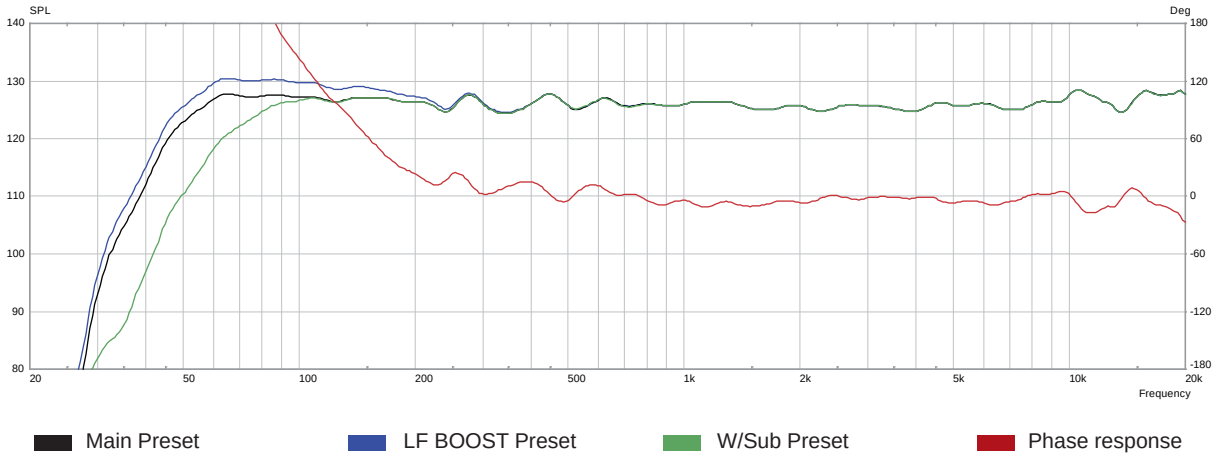
Key Features

- **BrainCore™ Integration:** Seamless implementation of BrainCore™ technology for optimized system performance and supreme sonic fidelity.
- **Versatile Performance Presets:** Three factory-optimized presets for quick and reliable setup in various acoustic environments.
- **High-End Digital Processing:** State-of-the-art DSP featuring a 96kHz sampling frequency and FIR filtering for superior signal accuracy.
- **Efficient Class D Amplification:** High-output, integrated Class D amplifier delivers consistent power with maximum efficiency.
- **Intelligent Power Management:** Automatic "sleep mode" activates after 45 minutes of signal inactivity to conserve energy.
- **Customized Transducers:** Precision-engineered Neodymium drivers designed specifically to maximize the system's acoustic potential.
- **Thermal Protection:** Advanced temperature control system ensures stable operation and long-term reliability during demanding use.
- **Double Pole Mount:** Adopts 0° or 10° optional pole mount.
- **Rugged Polyurea Finish:** Ultra-durable, waterproof, and heat-resistant polyurea coating provides superior protection against wear and environmental factors.
- **Pro-Grade Construction:** CNC-machined birch plywood cabinet with a compact, optimized design for ease of deployment.

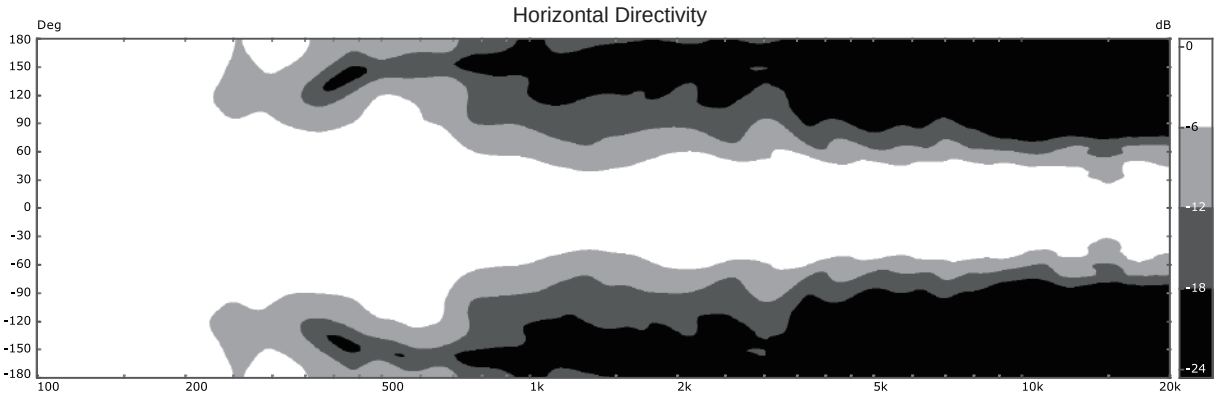
Specification

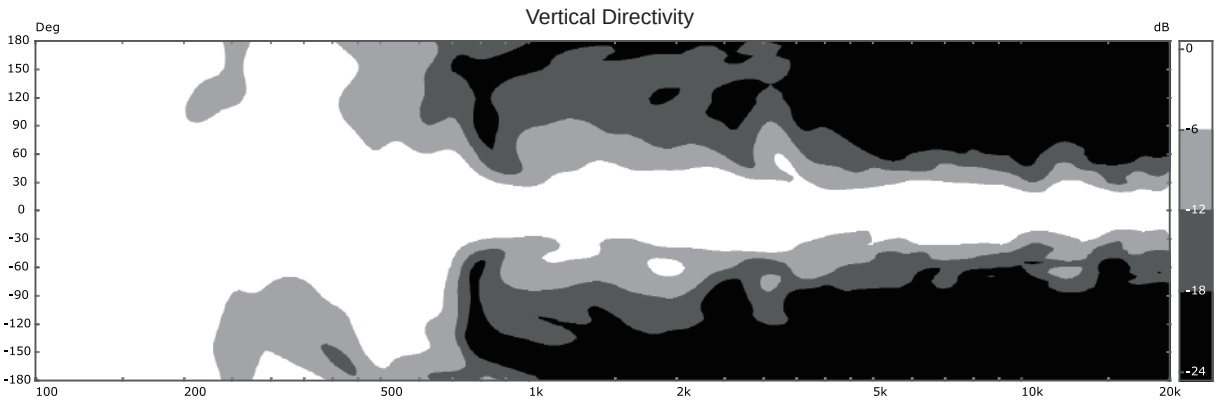
Type	Active DSP-controlled full range loudspeaker
Frequency Response(-10dB)	42Hz-20kHz
Maximum Calculated SPL/1M(Continuous/Peak)	126dB/132dB
HF	Customized Neodymium driver, 3.0” voice coil, 1.4” exit
LF	Customized 12” Neodymium driver, 3.0” voice coil
Horizontal Coverage	100°
Vertical Coverage	60°
DSP	
Processor	96kHz signal sampling frequency, FIR filtering
Presets	MAIN, LF BOOST, W/SUB
AMPLIFIER	
Amplifier Circuitry	Class D
Power (RMS standards)	1500W
Peak Power	3000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	＜0.05%
Total Harmonic Distortion	＜0.05%
Cooling System	Cooling with fans, air convection
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Output / Input	
Signal Input	Female XLR(Mono jack 6.35)
Signal Output	Male XLR
Power Input	Power connector
Power Output	Power connector
Working Voltage	100V--240V~(±10%,50/60Hz)
Power consumption (1/8 output power)	100W
Cabinet	
Cabinet Material	Multilayer baltic birch plywood
Coating	Durable Polyurea Coating
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Monitor Angle	Symmetrical 45° monitoring Angle
Hanging Hardwares	M8 screw
Pole Mount	Base hole Φ35mm, 0° or 10° optional
Speaker Dimension (W×H×D)	366×610×385mm
Carton Dimension (W×H×D)	456×705×481mm
Net Weight	20.0 kg
Shipping Weight	23.0 kg

Frequency Response Graphs

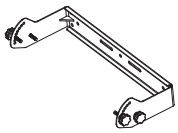


Normalized Isobar Plot

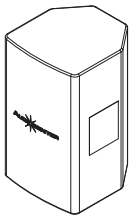




Full Range Loudspeaker Accessories

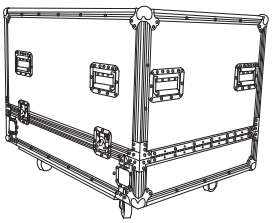


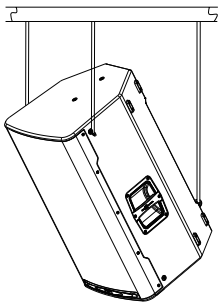
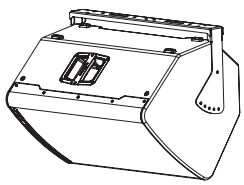
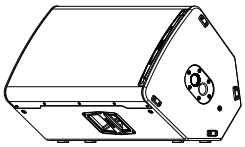
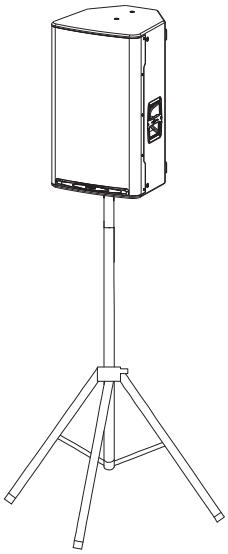
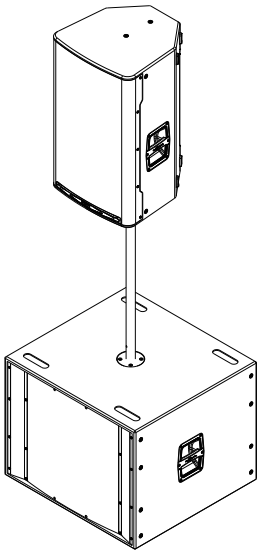
WM-AVD712
WM-AVD715
Horizontal U bracket
Bearing 60KG



Cover

Pole bar
Bearing 50KG



Flightcase
For 2 cabinets,
with 100mm wheels

Full Range Loudspeaker Installations