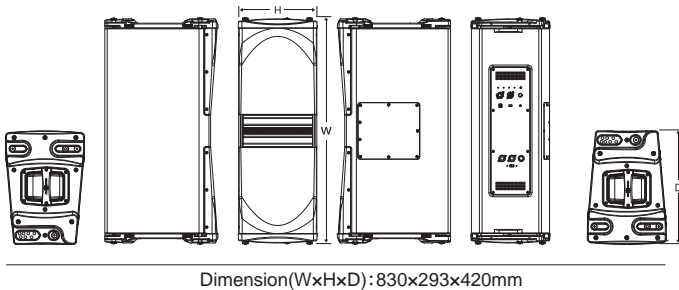


# AVANDA 210A

AVANDA 210A is a dual 10" two-way active DSP controlled line array loudspeaker. Designed for medium to large-scale sound reinforcement applications and mid-to-high-end fixed installations, it provides a high quality and powerful sound, meeting the requirements of any sound reinforcement application, indoors or outdoors.

The AVANDA 210A achieves a narrow vertical coverage in the high frequency range through the innovative ARROWHEAD™ waveguide technology, providing a clearer sound performance. The 90° horn provides a precise horizontal coverage and ensures that the system delivers an even and smooth sound.

CNC machined birch plywood cabinet, coated with polyurea, is waterproof, wear and high temperature resistant.



## Key Features

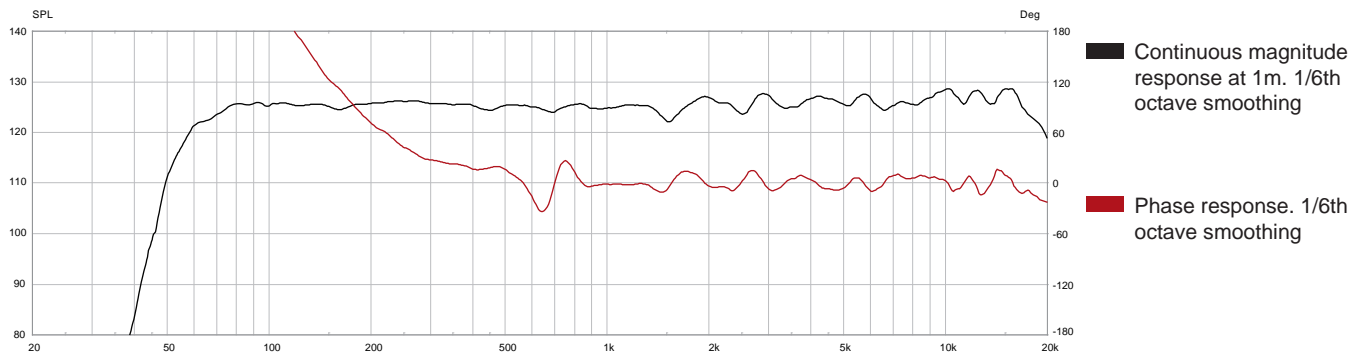
- **BrainCore™ Integration:** Seamless implementation of BrainCore™ technology for optimized system performance and supreme sonic fidelity.
- **ARROWHEAD™ Waveguide:** Advanced waveguide technology provides precise high-frequency directivity and enhanced clarity.
- **High-End Digital Processing:** State-of-the-art 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.
- **Versatile Performance Presets:** Three factory-optimized presets for quick and reliable setup in various acoustic environments.
- **Intelligent Power Management:** Automatic "sleep mode" activates after 45 minutes of signal inactivity to conserve energy.
- **Customized Transducers:** Precision-engineered 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.
- **Pro-Grade Construction:** CNC-machined birch plywood cabinet with a compact, optimized design for ease of deployment.
- **Rugged Polyurea Finish:** Ultra-durable, waterproof, and heat-resistant polyurea coating provides superior protection against wear and environmental factors.

## Specification

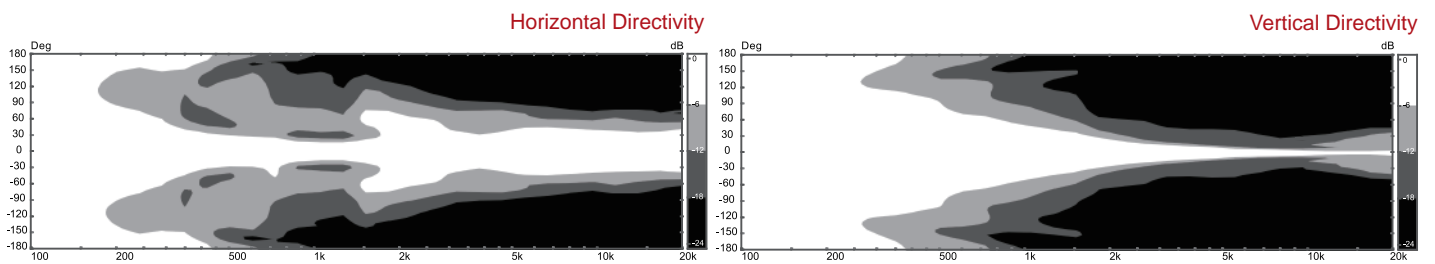
Frequency Response(-10dB)	67Hz-20kHz
Maximum Calculated SPL/1M(Continuous/Peak)	132dB/138dB
Horizontal Coverage	90°
Vertical Coverage	Splay angle dependent
HF	Customized Neodymium driver, 2x3" voice coil, 1.4"exit
LF	Customized 2x10" driver, 2.5"voice coil
DSP Processor	96kHz signal sampling frequency, FIR filtering
Presets	4 Units, 8 Units, 12 Units
<b>AMPLIFIER</b>	
Amplifier Circuitry	Class D
Power(RMS standards)	1600W
Peak Power	3200W
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
<b>Output/Input</b>	
Signal Input	Female XLR
Signal Output	Male XLR
Power Input	Power connector
Power Output	Power connector
AC Power Operating Range	100V-130V~ or 220V-240V~(±10%, 50/60Hz)
Power consumption (1/8 output power)	142W
<b>Cabinet</b>	
Cabinet Material	Multilayer baltic birch plywood
Angle Adjustment	0°, 1°, 2°, 4°, 6°, 8°, 10°
Coating	Durable Polyurea Coating
Cabinet Color	Black is the default color. Contact Audiocenter for customization
<b>Grille</b>	
Grille	Iron mesh
Handles	2 side
Speaker Dimension(WxHxD)	830x293x420mm
Carton Dimensions (WxHxD)	936x526x393mm
Net Weight	39.0 kg
Shipping Weight	42.0 kg



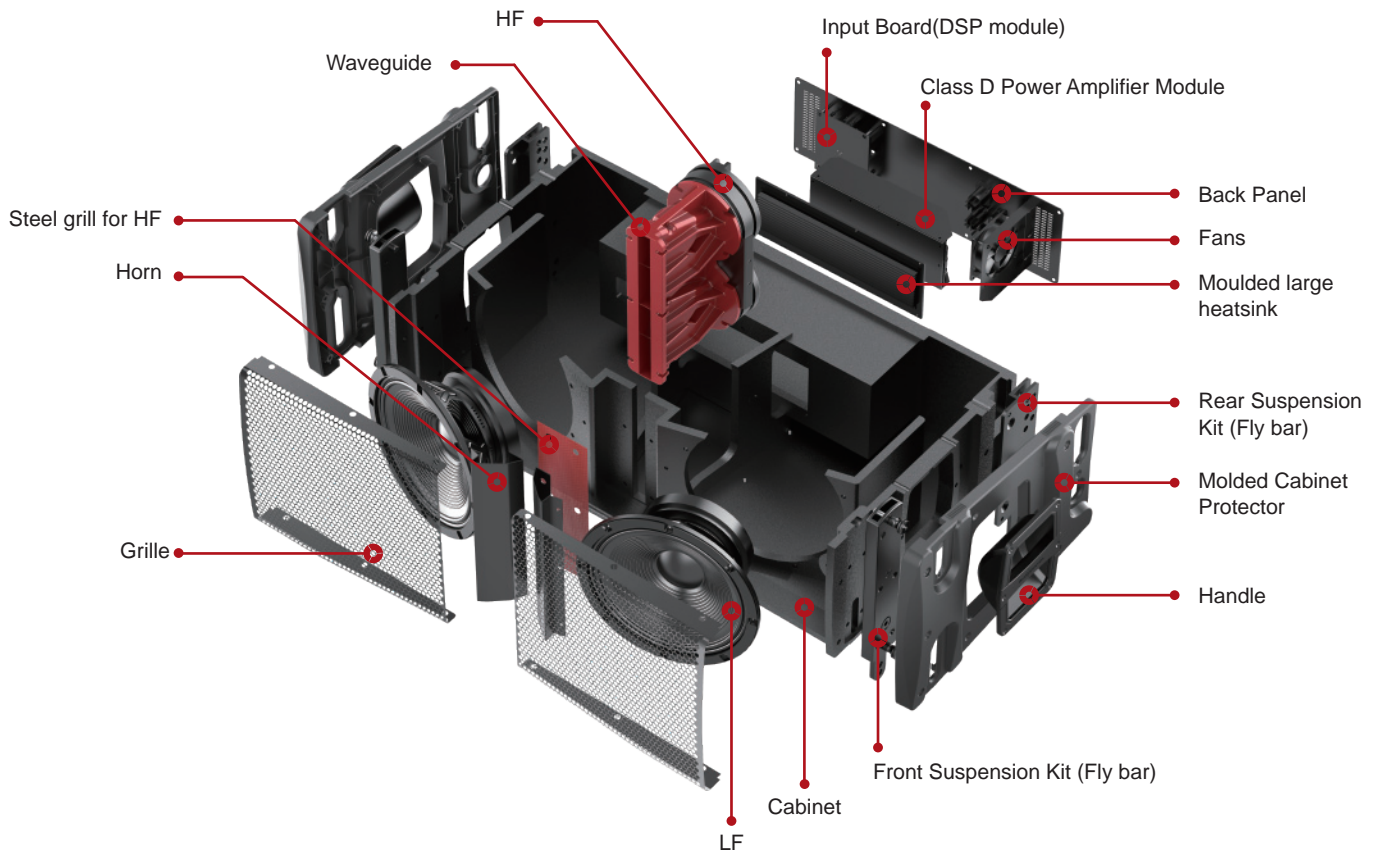
## Frequency Response Graphs



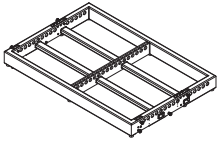
## Normalized Isobar Plot



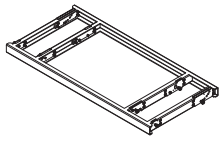
## Internal Structure



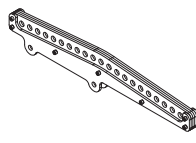
## Accessories



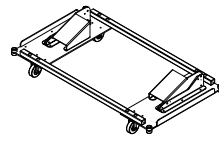
**FGF-AVANDA 212A/210A/28A**  
Flying and Ground Stack Frame



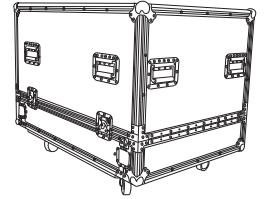
**CF-AV212A-210A**  
**CF-AV212A-28A**  
**CF-AV210A-28A**  
Coupling Frame



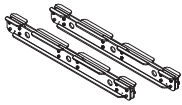
**AVANDA 212A**  
extension bar



**AVANDA 212A/210A/28A**  
dolly + protective cover  
(for 4 cabinets)



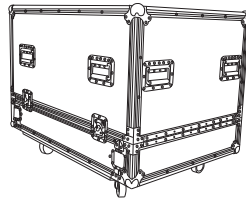
**AVANDA 212A/210A/28A Flightcase**  
For 2 cabinets, with 100mm wheels



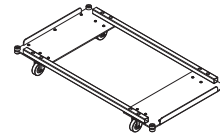
**AVANDA 218A**  
Flying frame set



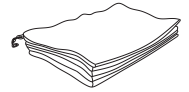
**AVANDA 218A Hanging**  
side-brackets kit



**AVANDA 218A Flightcase**  
For 1 cabinet, with 100mm wheels



**AVANDA 218A dolly +**  
protective cover  
(for 3 cabinets)



**Rain bag**  
(customized)

## Installations

