



WM-DSP

Active DSP Wedge Monitor

WM-DSP series is Audiocenter's latest active DSP controlled wedge monitor speaker with high-output, reliability and supreme performance.

WM-DSP series is perfectly integrated with BrainCore™ technology, with its advanced technology and scientific methodology, BrainCore™ analyses and processes the input signal, DSP module, Class D amplifier and loudspeaker optimally, achieving smooth transitions between the LF and HF, excellent frequency response and audio reproduction even at high levels of SPL.

The wave guide of WM-DSP series provides a perfect coverage angle of 60° x 40° (Live band), 60° x 60° (Stage), which can achieve symmetrical sound field coverage of large and medium-sized shows and live bands. WM-DSP series can fulfill the requirements of artists with excellent performance and high audio reproduction.

WM-DSP series is specially designed for touring performance and fixed installation like Live sound reinforcement floor monitor, Touring systems, Clubs, Auditoriums, Theatres and Houses of Worship.

KEY FEATURES



Innovative BrainCore™ technology to improve the audio performance of the system

The innovative BrainCore™ technology and built-in powerful DSP processor improve the performance of the speaker. With Cort™ correction technology and Limita™ processing technology, the system works with safety and reliability and achieves supreme performance.



Class D Amplifier

WM-DSP adopts customized Class D Amplifier together with switch mode power supply technology, which ensure the system for high efficiency, exquisite and compact outlook, advanced cooling effect and high quality.



Advanced Cooling System

Moulded large heatsink improves the cooling efficiency, with the result of higher reliability of the system.



Asymmetrical Wave Guide

Asymmetrical wave guide makes the penetration of HF stronger, and gets cleaner and clearer sound.



Customized ProDriver

Latest speaker technology and customized driver ensure very clean and clear sound and impressive sound dynamic.



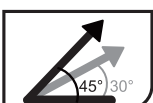
Active Speaker DSP

3 different presets: FLAT, VOCAL, DRUM, users can choose the preset according to their needs via the switch on the back panel.



Automatic Standby 15mins

To save power, the system will enter into standby mode automatically if without signal input for 15mins.



The vertical adjustable angle for cabinet is from 30° to 45° (30°, 35°, 40°, 45°, every 5° adjustable)



Front loaded cabinet design

Front loaded cabinet design lowers the limit of low frequency. The cabinet is very small and compact but can reach very high SPL.



Customized and molded handle with ergonomic design for easy usage

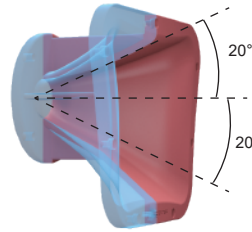


Solid Wood Construction

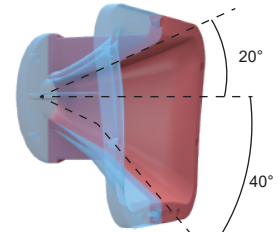
Optimized and compact CNC cabinet made of Russian birch plywood is solid and very suitable for touring application.



● The wave guide of WM-DSP series provides a perfect coverage angle of 60° x 40° (Live band), 60° x 60° (Stage)

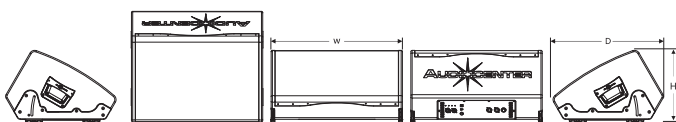
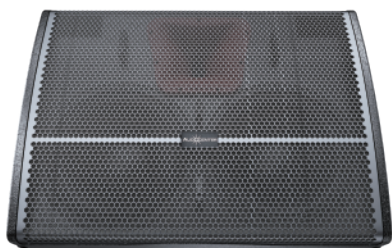
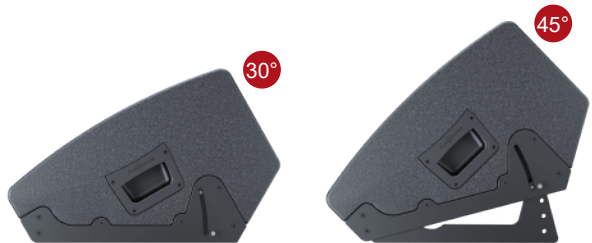
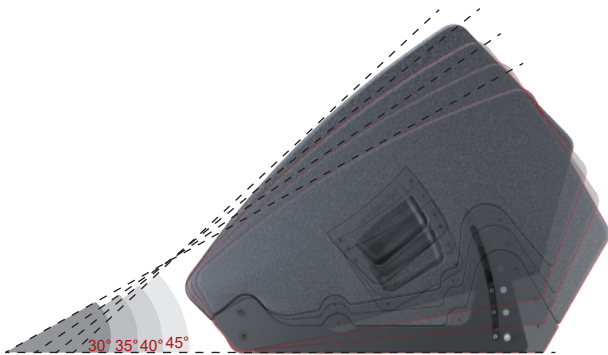


Live band Wedge Monitor



Stage Wedge Monitor

● The vertical adjustable angle for cabinet is from 30° to 45° (30°, 35°, 40°, 45°, every 5° adjustable)



Dimension(W×H×D): 620×338×465mm

SPECIFICATIONS

Frequency Response(-10dB)	55Hz-20kHz
Coverage Angle	60° x 40° (Live band) , 60° x 60° (Stage)
Maximum Calculated SPL/1M(Continuous/Peak)	126dB/132dB
HF Driver	Customized driver, 1.4"exit, 3"voice coil
LF Driver	Customized 2x10" driver, 2.5"voice coil
DSP	
Processor	96kHz signal sampling frequency
Presets	FLAT, VOCAL, DRUM
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	1600W
Peak Power	3200W
Frequency Response(1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion (20Hz-20kHz, half power)	<0.05%
Total Harmonic Distortion (20Hz-20kHz, Rated power 8Ω)	<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
Signal Input Connectors	Female XLR
Signal Output Connectors	Male XLR
Power Input Connectors	Power connector
Power Output Connectors	Power connector
Working Voltage	100V-130V~ or 220V-240V~ (±10%,50/60Hz)
Power consumption(1/8 output power)	117W
Cabinet	
Cabinet Material	CNC made of Russian birch plywood
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Cabinet monitoring Angle	30°/35°/40°/45°
Speaker Dimension(W×H×D)	620x338x465mm
Carton Dimensions(W×H×D)	466x725x542mm
Net Weight	33.0kg
Shipping Weight	35.0kg