



Dynamic Audio Solutions

**BrainCore**<sup>TM</sup>  
Technology Inside

[www.audiocenter.net](http://www.audiocenter.net)

*Together we are stronger*



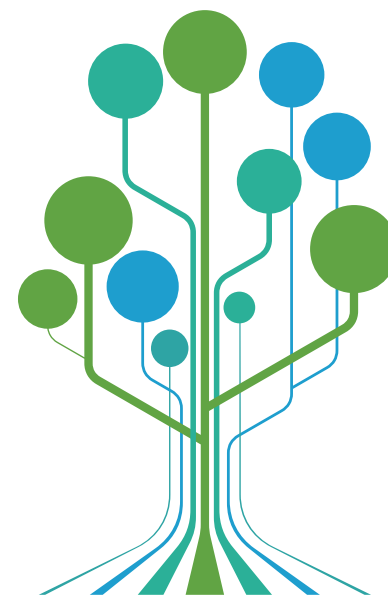
## **MA Series** Portable Active DSP-controlled Speaker

MA Series is a portable active DSP-controlled speaker. It is Audiocenter's first lightweight molded speaker crafted with excellent sound, compact size, and stylish industrial design. It is versatile, portable and plug-and-play, and can be widely used in various types of applications.





*Stand on*  
THE SHOULDERS OF THE  
**GIANTS**



## BrainCore™

BrainCore™ is an innovative core application technology researched and developed by Audiocenter, devoted to Audiocenter active DSP-controlled loudspeakers with supreme performance and high reliability.

With its advanced technology and scientific methodology, BrainCore™ analyses and processes the input signal, DSP module, Class D amplifier and loudspeaker optimally, achieving excellent frequency response and audio reproduction even at high levels of SPL.

### IMPORTANT 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.



#### Advanced Cooling System

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



#### EQ Adjustable

The frequency response of different bandwidth range can be adjusted according to actual application, very easy to use.



#### Big horn

The big and uncovered horn delivers clear and perfect stereo sound with high fidelity.



#### Durable and reliable

one-piece molding with a new type of polypropylene composite material, strong and wear-resistant.



#### Elegant physical design

The cabinet is shaped with a charming curvature, elegant and stylish.



#### Plug-and-play, user-friendly controls

Simple and integrated control panel, easy to set up and play.

Flexible and friendly, users can choose music styles based on their preference.

Supports signal inputs from microphone, music instrument and Bluetooth devices, etc. and control each signal independently



#### Class D Amplifier

MA adopts customized Class D amplifier together with switch mode power supply technology, which ensures the high efficiency of the system, exquisite and compact outlook and advanced cooling.



#### Built-in Bluetooth

Built-in wireless bluetooth makes various bluetooth devices can be linked easily and get the audio output. Users can enjoy the wonderful sound whenever and wherever possible. The transfer is stable and reliable, which makes the sound clean and clear.



#### Portable Design

Easy to carry and transport.

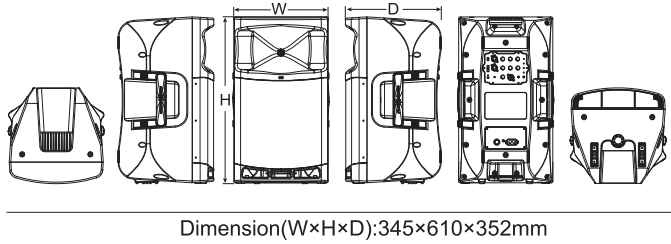


#### Considerate

Built with a comfortable molded handle for easy carrying and a tilt angle for monitor use.



MA12

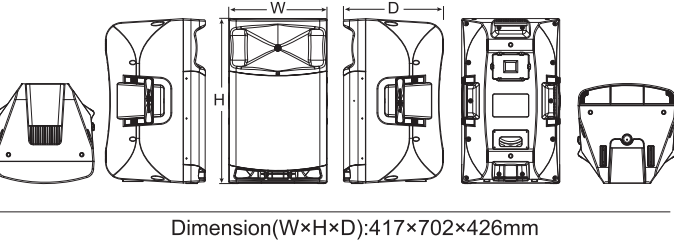


Dimension(W×H×D):345×610×352mm

SPECIFICATION

Frequency Response (-6dB anechoic chamber)	50Hz-20KHz
Maximum Calculated SPL/1M(Continuous/Peak)	125dB/131dB
LF Driver	Customized driver, 2.5"voice coil
HF Driver	Customized driver, 1.0"exit, 1.4"voice coil
Horizontal Coverage Angle (Symmetrical)	80°
Vertical Coverage Angle (Symmetrical)	50°
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	1600W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±1dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<0.05%
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Cooling System	Air convection
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Output / Input	
Signal Input	2×female XLR(Mono jack 6.35), 1×wireless bluetooth, 1×Mini jack 3.5
Signal Output	1× male XLR
Power Input	IEC power connector
AC Power Operating Range	100-240V (±10%, 50/60Hz)
Cabinet	
Monitor function	Symmetrical 45° monitor angle
Cabinet Material	New polypropylene composite material
Pole Mount	Φ35mm
Dimension (W×H×D)	345x610x352mm
Net Weight	14.0Kg

MA15



Dimension(W×H×D):417×702×426mm

SPECIFICATION

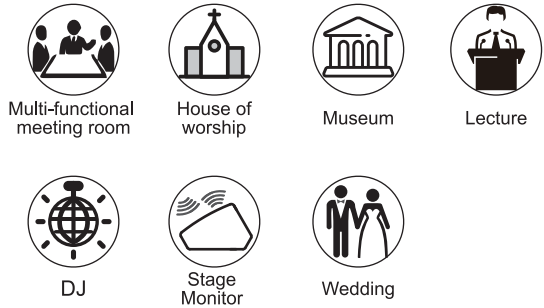
Frequency Response (-6dB anechoic chamber)	45Hz-20KHz
Maximum Calculated SPL/1M(Continuous/Peak)	128dB/134dB
LF Driver	Customized driver, 3"voice coil
HF Driver	Customized driver, 1.0"exit, 1.4"voice coil
Horizontal Coverage Angle (Symmetrical)	80°
Vertical Coverage Angle (Symmetrical)	50°
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	1600W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±1dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<0.05%
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Cooling System	Air convection
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Output / Input	
Signal Input	2×female XLR(Mono jack 6.35), 1×wireless bluetooth, 1×Mini jack 3.5
Signal Output	1× male XLR
Power Input	IEC power connector
AC Power Operating Range	100-240V (±10%, 50/60Hz)
Cabinet	
Monitor function	Symmetrical 45° monitor angle
Cabinet Material	New polypropylene composite material
Pole Mount	Φ35mm
Dimension (W×H×D)	417x702x426mm
Net Weight	17.5Kg

PRODUCT PROFILE

MA12 full range DSP-controlled speaker, is molded and made from new polypropylene composite material, with fashionable design and supreme performance. Audiocenter BrainCore™ Technology, provides the best sound quality by analyzing and processing input signal, integrated Class D amplifier and DSP module optimally, improving the audio performance of the system significantly. Built-in Bluetooth, link with various smart devices easily.

MA12 can be used as PA speakers and stage monitor. There are multiple ways of mounting and installation, for example, pole mount with a three-feet stand, or hanging installation.

SUGGESTED APPLICATION



PRODUCT PROFILE

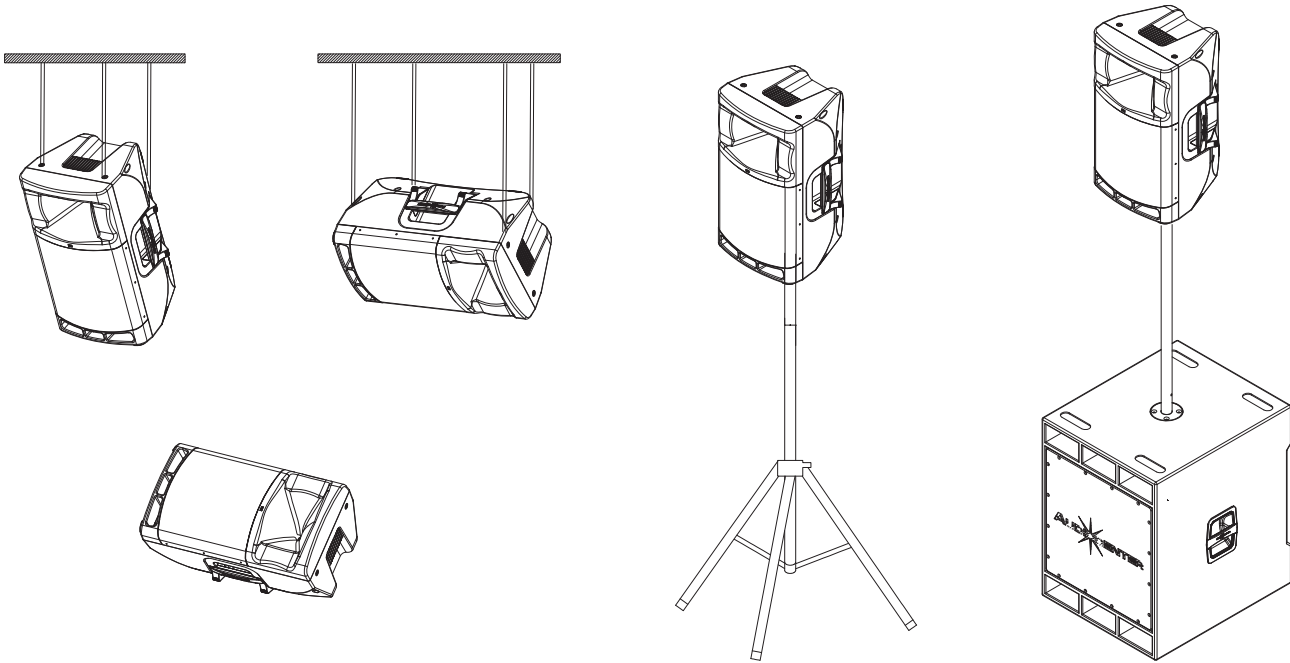
MA15 full range DSP-controlled speaker, is molded and made from new polypropylene composite material, with fashionable design, supreme performance. Audiocenter BrainCore™ Technology, provides the best sound quality by analyzing and processing input signal, integrated Class D amplifier and DSP module optimally, improving the audio performance of the system significantly. Built-in Bluetooth, link with various smart devices easily.

MA15 can be used as PA speakers and stage monitor. There are multiple ways of mounting and installation, for example, pole mount with a three-feet stand, or hanging installation.

SUGGESTED APPLICATION



INSTALLATIONS



MA Series Specifications

SPECIFICATIONS		MA12	MA15
Frequency Response (-6dB anechoic chamber)		50Hz-20KHz	45Hz-20KHz
Directivity -6dB(H°×V°)		80° × 50°	
Maximum Calculated SPL/1M	Continuous	125dB	128dB
	Program	128dB	131dB
	Peak	131dB	134dB
Drivers	HF	Customized driver, 1.4" voice coil, 1.0" exit	
	LF	Customized driver, 2.5" voice coil	Customized driver, 3" voice coil
Crossover and Slope		Controlled by DSP	
Signal Input Connector		2×female XLR(Mono jack 6.35), 1×wireless bluetooth, 1×Mini jack 3.5	
Signal Output Connector		Male XLR	
Power Input		IEC power connector	
Working Voltage		100-240V (±10%, 50/60Hz)	

DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Presets	/

AMPLIFIER		
Amplifier		Class D
Power(Peak)		1600W
Frequency Response (1W 8Ω 2ch)		20Hz-20KHz(±1dB)
Intermodulation Distortion (20Hz-20KHz, half power)		<0.05%
Total Harmonic Distortion(20Hz-20KHz, Rated power 8Ω)		<0.05%
Cooling		Air convection
Protection	DC protection	√
	Short circuit protection	√
	Overheat protection	√
	Output overload protection	√
	Soft startup protection	√
	Overvoltage protection	√
	Undervoltage protection	√

CABINET		
Cabinet	New polypropylene composite material	
Monitor function	Symmetrical 45° monitor angle	
Pole Mount	Φ35mm	
Optional Accessories	/	
Dimensions(W×H×D)	345×610×352mm	417×702×426mm
Net Weight	14.0Kg	17.5Kg
Technical Support and After-sales Service	Global application support team	