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Together we are stronger

AUDIOCENTER

Dynamic Audio Solutions

BrainCore™

Technology Inside



EA5 Series

Active DSP-controlled Loudspeaker

EA5 series is Audiocenter latest active speaker built with BrainCore™ , innovative core application technology that researched and developed by Audiocenter with supreme performance and high reliability.

EA5 Series is specially designed for fixed installation like ballroom, meeting room, lecture hall, exhibition center, house of worship and touring performance like party, road show, seminar, speech, etc.

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sales@ac-pro.net

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AUDIOCENTER INTERNATIONAL

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.

ADVANTAGES





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.

3 Presets

EA5 Series full range loudspeakers is built with 3 different presets, subwoofer is built with 3 different low-pass filters. Users can choose different presets or low-pass filters according to their needs via the buttons on the back panel.

Advanced Cooling System

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

Solid Wood Cabinet

Optimized and compact CNC made cabinet of excellent wood is solid, very suitable for touring application.

Class D Amplifier

EA5 adopts customized Class D amplifier together with switch mode power technology, which ensures the system for high efficiency, exquisite and compact outlook and advanced cooling.

HF 90° Rotatable

The HF horn is 90° rotatable

Automatic Standby

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

Double Pole Mount

EA5 Series full range loudspeaker adopts 0°and 10°adjustable pole mount.

Customized ProDriver

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

DMF Composite Material Horn Design

The hybrid horn design using DMF composite materials makes sure of HF equalization, high-efficient signal and extremely low distortion.

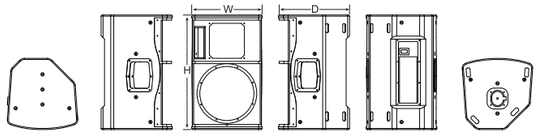
Dynamic Audio Solutions



The National Conference of Indonesia Chamber of Commerce

EA512





Dimension(W×H×D):374×608×378mm

SPECIFICATION

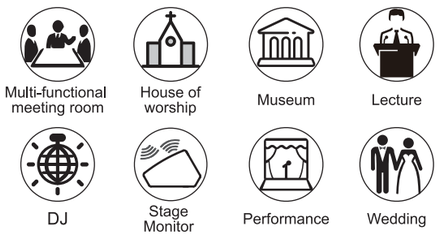
Type	Active DSP-controlled full range loudspeaker
Frequency Response (-6dB anechoic chamber)	45Hz-20KHz
Maximum Calculated SPL/1M(Continuous/Peak)	128dB/134dB
LF Driver	Customized driver, 3”voice coil
HF Driver	Customized driver, 1.0”exit, 1.75”voice coil
Horizontal Coverage Angle (Symmetrical)	60°
Vertical Coverage Angle (Symmetrical)	40°
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±0.5dB)
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	Cooling with fans, air convection
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Presets	MAIN, F/Monitor, W/SUB
Crossover	Controlled by DSP
Output / Input	
Signal Input	2× female XLR, Mono jack 6.35, 1× RCA
Signal Output	2× male XLR
Power Input	3 pin plug
Working Voltage	100V~130V or 220V~240V（±10%,50/60Hz）
Cabinet	
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension (W×H×D)	374x608x378mm
Net Weight	25.0Kg

PRODUCT PROFILE

Two combo inputs (2-way XLR and Mono jack 6.35) are available in EA512. CH A input can be switched between line input or microphone input. Besides, there is a RCA port for other sound resources like MP3, CD player, etc. The three different audio sources can be parallel output with one-way XRL after mixed internally, and then sent to different speakers for sound distribution.

EA512 can be installed either horizontally or vertically by steel wire and U bracket, or vertically by single-point hanging frame. Also, it can be ground standing by coupling bar or three-feet stand. The double mount is 0°/10°adjustable by just pushing the button. Various accessories are offered for EA512 to meet different kinds of installs.

SUGGESTED APPLICATION

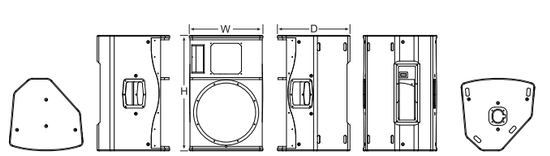


SYSTEM CONFIGURATION

■ EA5 subwoofer or the same type of subwoofer

EA515





Dimension(W×H×D):446×700×440mm

SPECIFICATION

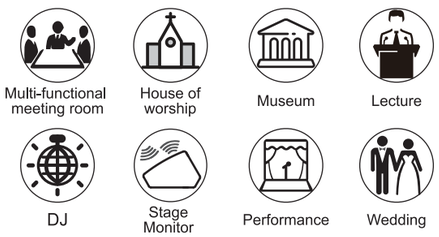
Type	Active DSP-controlled full range loudspeaker
Frequency Response (-6dB anechoic chamber)	40Hz-20KHz
Maximum Calculated SPL/1M(Continuous/Peak)	130dB/136dB
LF Driver	Customized driver, 3”voice coil
HF Driver	Customized driver, 1.0”exit, 1.75”voice coil
Horizontal Coverage Angle (Symmetrical)	60°
Vertical Coverage Angle (Symmetrical)	40°
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±0.5dB)
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	Cooling with fans, air convection
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Presets	MAIN, F/Monitor, W/SUB
Crossover	Controlled by DSP
Output / Input	
Signal Input	2× female XLR, Mono jack 6.35, 1× RCA
Signal Output	2× male XLR
Power Input	3 pin plug
Working Voltage	100V~130V or 220V~240V（±10%,50/60Hz）
Cabinet	
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension (W×H×D)	446x700x440mm
Net Weight	30.0Kg

PRODUCT PROFILE

Two combo inputs (2-way XLR and Mono jack 6.35) are available in EA515. CH A input can be switched between line input or microphone input. Besides, there is a RCA port for other sound resources like MP3, CD player, etc. The three different audio sources can be parallel output with one-way XRL after mixed internally, and then sent to different speakers for sound distribution.

EA515 can be installed either horizontally or vertically by steel wire or U bracket. Also, it can be ground standing by coupling bar or three-feet stand. The double mount is 0°/10°adjustable by just pushing the button. Various accessories are offered for EA515 to meet different kinds of installs.

SUGGESTED APPLICATION

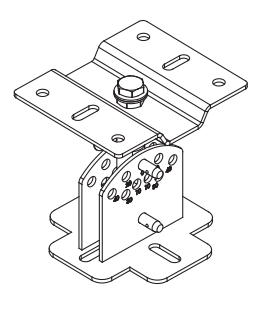


SYSTEM CONFIGURATION

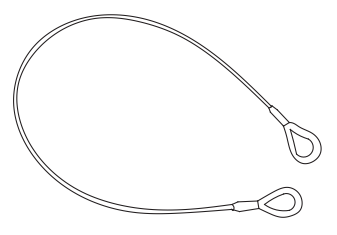
■ EA5 subwoofer or the same type of subwoofer

Dynamic Audio Solutions

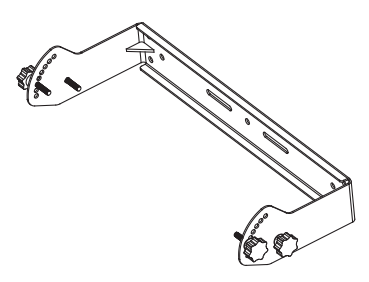
ACCESSORIES



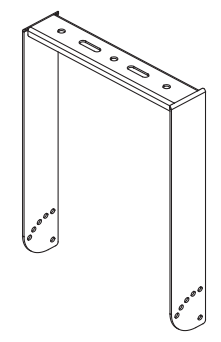
Single point hanging frame(EA512)
Bearing 80KG



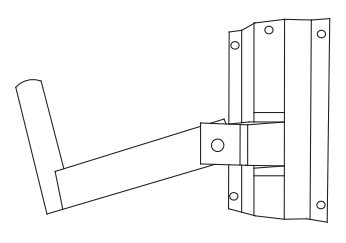
Φ3 steel wire
The wire is 3mm diameter, 1M long with wire ear and wire jacket, bearing 60KG



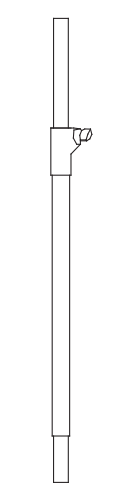
Horizontal U bracket
(EA512 / EA515)
Bearing 60KG



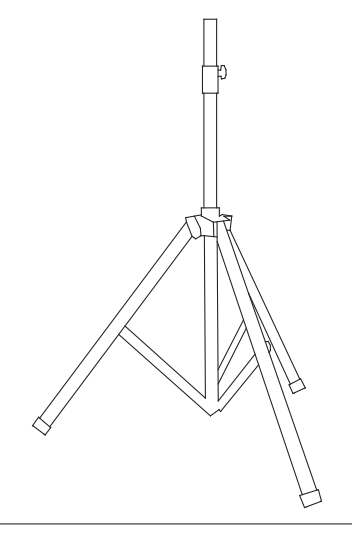
Vertical U bracket
(EA512 / EA515)
Bearing 60KG



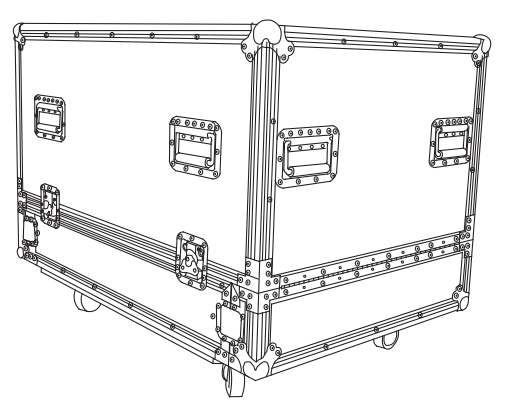
Flexible wall mounting frame
Bearing 40KG



Coupling bar
Bearing 50KG

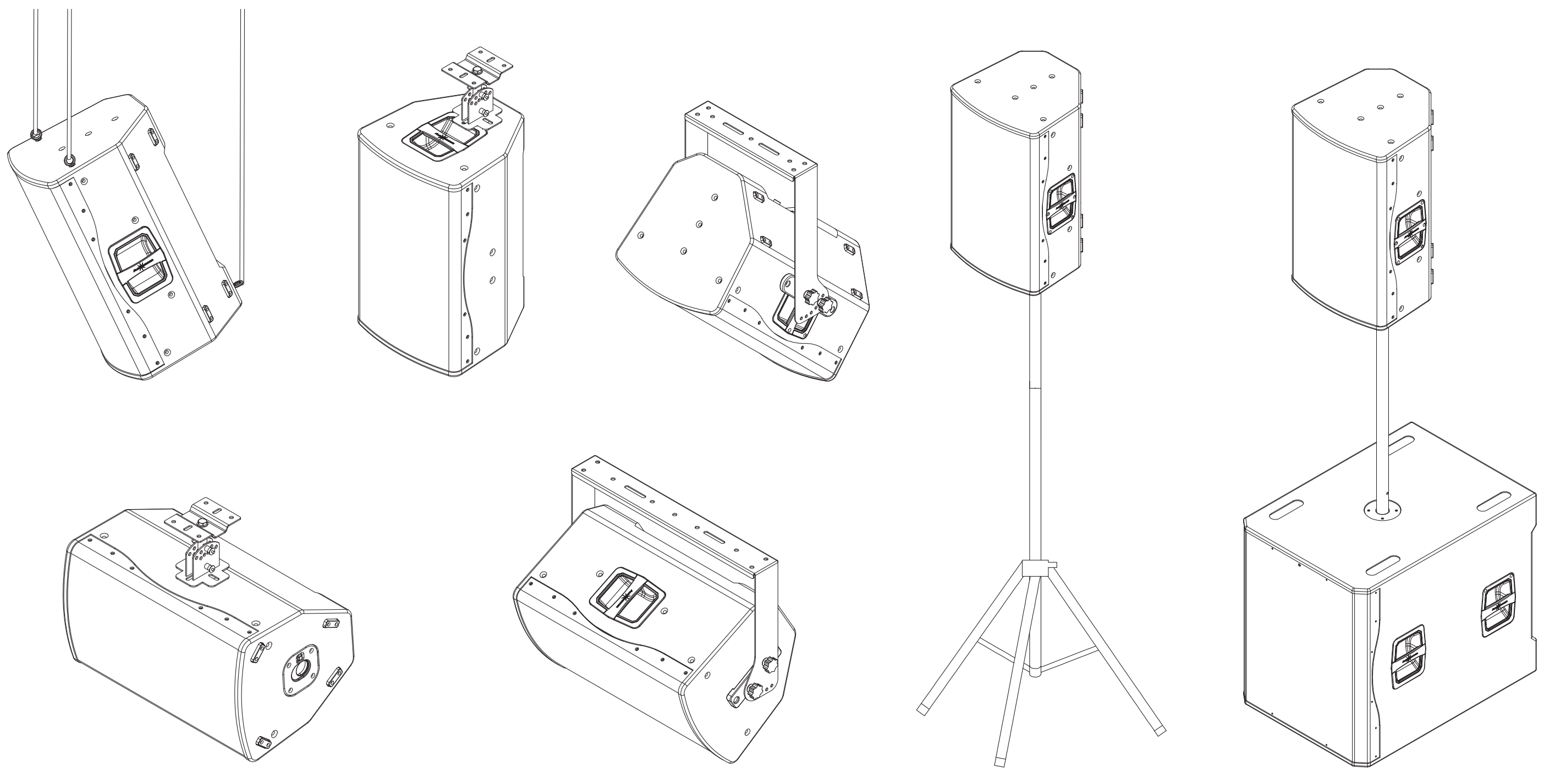


Three-feet stand
Bearing 80KG



Flightcase
(EA512 / EA515)
For 2 cabinets,
with 100mm wheels

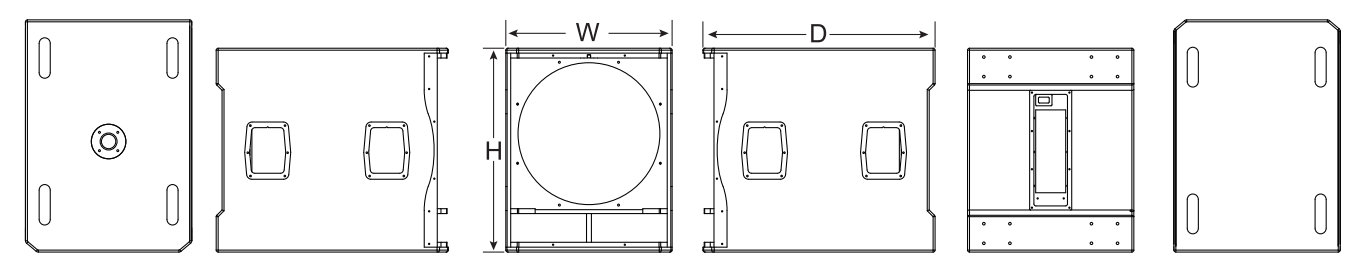
INSTALLATIONS





EA5118





Dimension(W×H×D):510×625×712mm

PRODUCT PROFILE

3 low-pass filters (80Hz, 100Hz, 120Hz) in EA5118 are available to choose according to different venues and music styles. There is also phase switch. All connectors and function buttons are on the back panel.

EA5118 subwoofer is with 1-way XLR for input and output. Signals can be sent to different speakers for sound distribution.

SUGGESTED APPLICATION

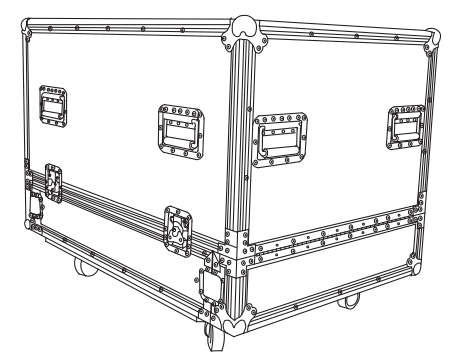


Multi-functional meeting room | Museum | DJ | Wedding | Performance

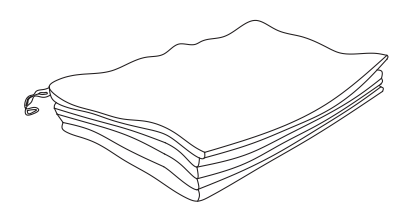
SPECIFICATION

Type	Active DSP-controlled full range Subwoofer
Frequency Response (-6dB anechoic chamber)	35Hz-150Hz
Maximum Calculated SPL/1M(Continuous/Peak)	131dB/137dB
LF Driver	Customized driver, 4”voice coil
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±0.5dB)
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	Cooling with fans, air convection
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Presets	80Hz,100Hz,120Hz
Crossover	Controlled by DSP
Output / Input	
Signal Input	1× female XLR
Signal Output	1× male XLR
Power Input	3 pin plug
Working Voltage	100V~130V or 220V~240V（±10%,50/60Hz）
Cabinet	
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension (W×H×D)	510x625x712mm
Net Weight	42.5Kg

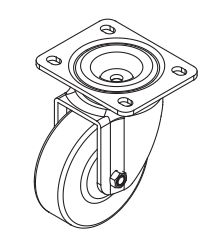
ACCESSORIES



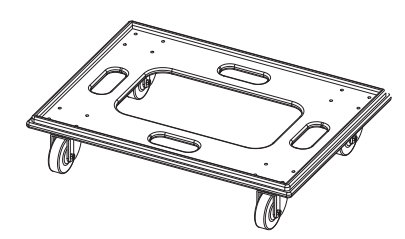
Flightcase
For 1 cabinet,
with 100mm wheels



Rain bag
(customized)



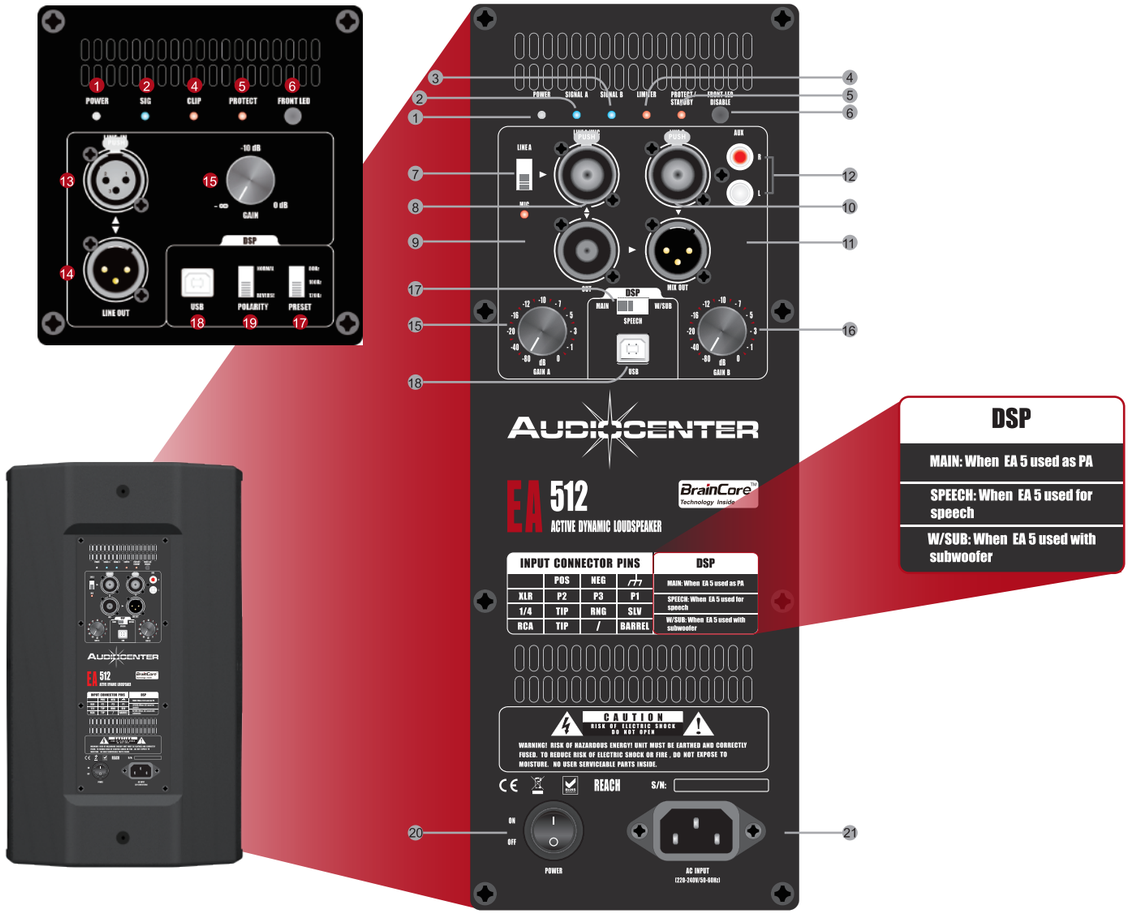
Wheel



Dolly
(customized)

Dynamic Audio Solutions

FUNCTION INTRODUCTION OF REAR PANEL



DSP

- **MAIN: When EA 5 used as PA**
- **SPEECH: When EA 5 used for speech**
- **W/SUB: When EA 5 used with subwoofer**

1. POWER Indicator
2. SIG A(SIGNAL) Indicator
3. SIG B(SIGNAL) Indicator
4. CLIP Indicator
5. PROTECT Indicator
6. FRONT LED ON/OFF Switch
7. LINE/MIC Switch
8. INPUTS (MIC/LINE A)
9. OUTPUTS (OUT A)
10. INPUTS (LINE B)
11. OUTPUTS (MIX OUT)
12. INPUTS (AUX)
13. INPUTS (LINE IN)
14. OUTPUTS (LINE OUT)
15. CH A Gain Control Knob
16. CH B Gain Control Knob
17. Preset Switch
18. USB Terminal
19. Polarity Switch
20. Power Switch
21. Power Socket

■ EA5 Series Specifications

SPECIFICATIONS		EA512	EA515	EA5118
Frequency Response (-6dB anechoic chamber)		45Hz-20KHz	40Hz-20KHz	35Hz-150Hz
Directivity -6dB(H°×V°)		60° × 40°		/
Maximum Calculated SPL/1M	**Continuous**	128dB	130dB	131dB
	Program	131dB	133dB	134dB
	Peak	134dB	136dB	137dB
Drivers	**HF**	Customized driver,1.75” voice coil,1.0” exit		/
	LF	Customized driver, 3” voice coil		Customized driver, 4” voice coil
Crossover and Slope		Controlled by DSP		
Signal Input/Output Connector		Female XLR, Mono jack 6.35 and RCA for input, Male XLR for output		Female XLR input, Male XLR output
Power Input/Output Connector		3 pin plug		
Working Voltage		100V~130V or 220V~240V（±10%,50/60Hz）		

DSP			
Processor	96KHz signal sampling frequency， 24bit precision		
Presets	MAIN, F/Monitor, W/SUB		80Hz,100Hz,120Hz

AMPLIFIER		
Amplifier	Class D	
Power(Peak)	2000W	
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	Cooling with fans ,air convection	
Protection	**DC protection**	√
	Short circuit protection	√
	Overheat protection	√
	Output overload protection	√
	Soft startup protection	√
	Overvoltage protection	√
	Undervoltage protection	√

CABINET			
Cabinet	CNC made of excellent wood		
Pole Mount	1 base hole Φ35mm on the bottom, 0°/10°adjustable		1 base hole Φ35mm on the bottom
Optional Accessories	U bracket / Single point hanging frame / Flexible wall mounting bracket / Coupling bar / Flightcase		Flightcase / Wheel / Coupling bar / Durable rain bag
Dimensions(W×H×D)	374×608×378mm	446×700×440mm	510×625×712mm
Net Weight	25.0Kg	30.0Kg	42.5Kg
Technical Support and After-sales Service	Global application support team		

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