



Dynamic Audio Solutions

**BrainCore™**  
Technology Inside

Audiocenter core technology & new family

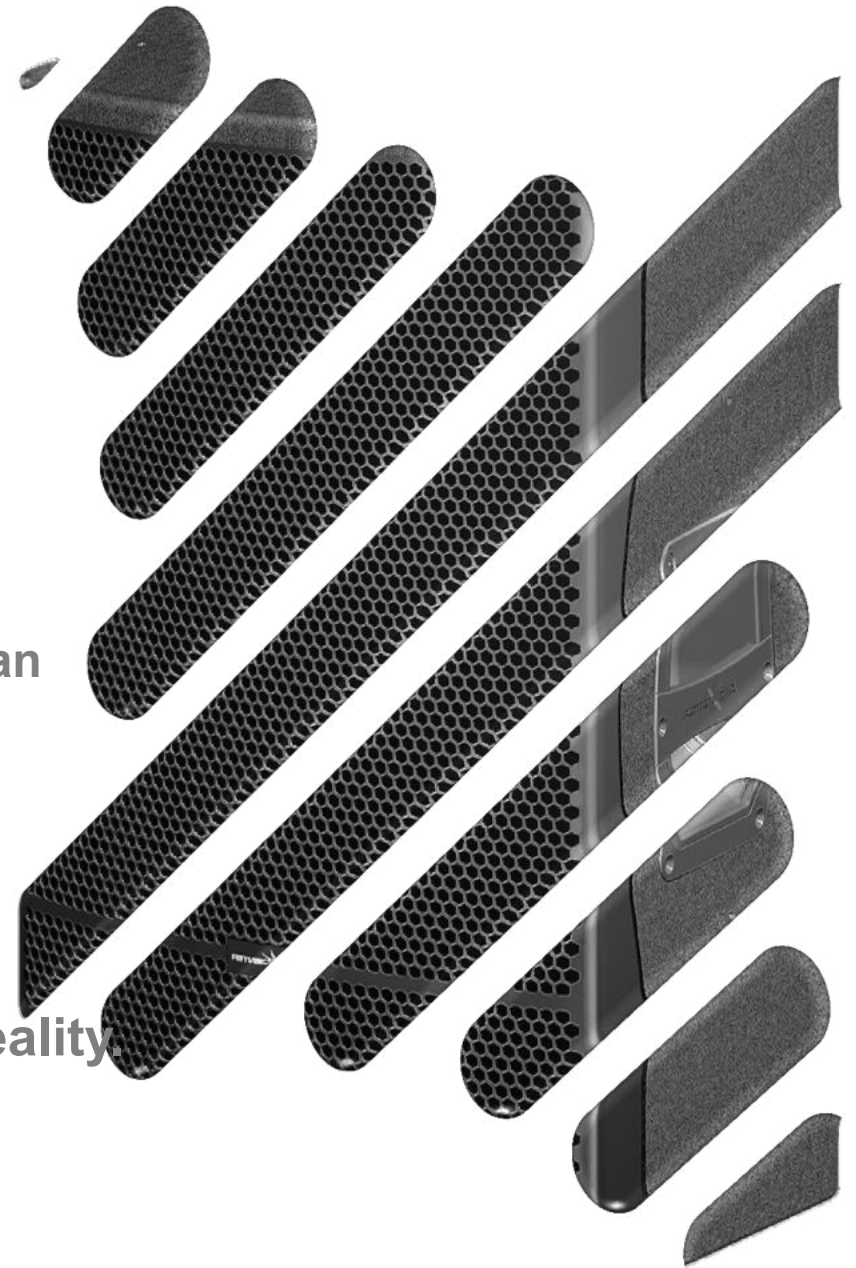
# EA5 SERIES

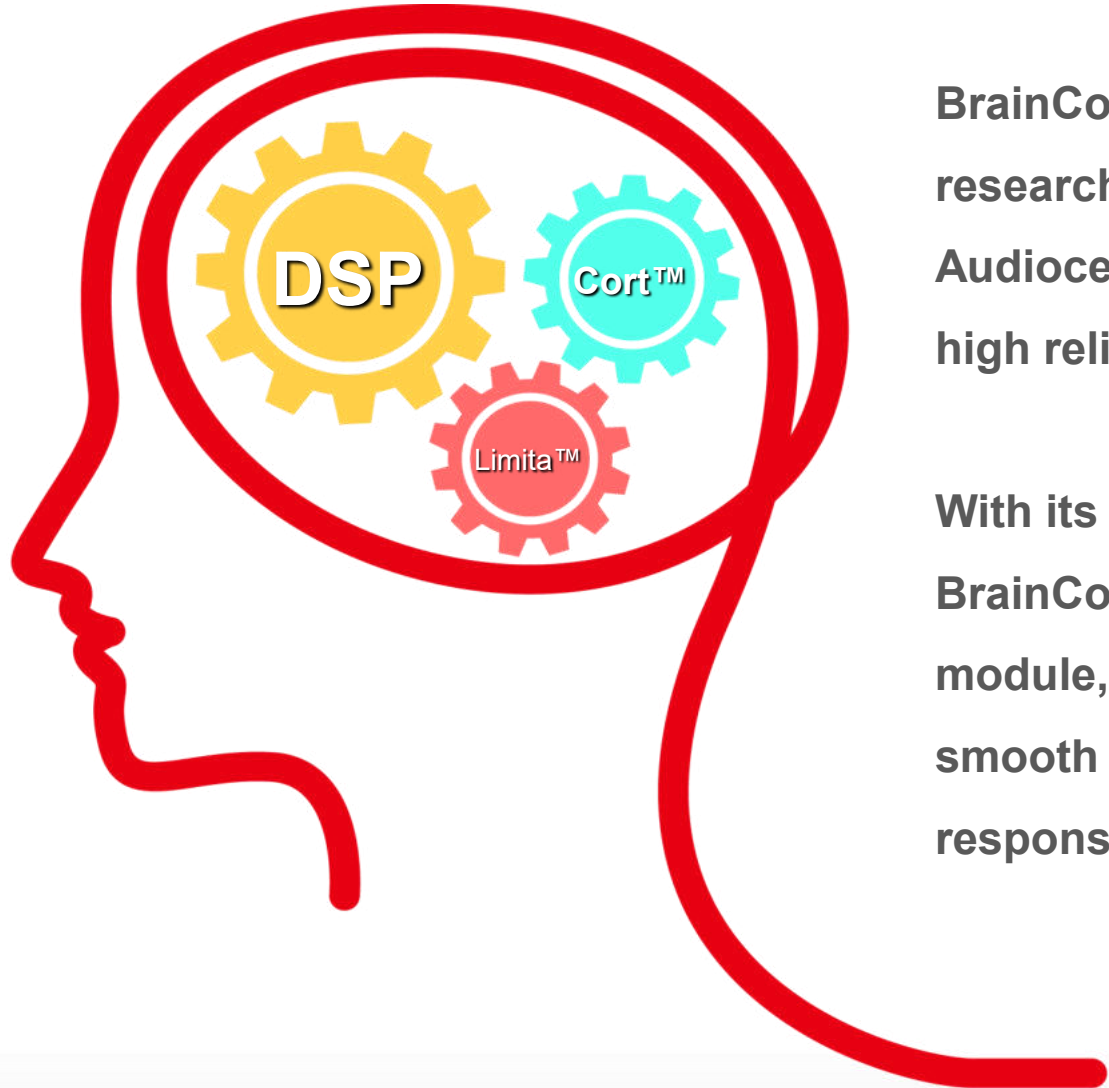


**Wouldn't it** be nice to know that you will never blow a speaker, that you will never blow an amplifier ever again!

**Wouldn't it** be nice to know that every set-up can be perfectly matched to your venue with superb sound quality!

With Audiocenter & **BrainCore™**, this is a reality.





**BrainCore™** is an innovative core application technology researched and developed by Audiocenter, devoted to Audiocenter active 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 smooth transitions between the LF and HF, excellent frequency response and audio reproduction even at high levels of SPL.



### ➤Cort™ Technology

Cort™ is applied to all Audiocenter DSP-controlled active loudspeakers.

Our R&D team have taken an average of 144 experimental measured sample data in order to determine the optimum time alignment and phase ensuring seamless transition between the LF & HF.



### ➤Limita™

With the unique Limita™ protection technology, the amplifier and loudspeaker systems are optimized scientifically and optimally in achieving ultimate output power by precise measurement and calculation.

Limita™ protects both electronic and acoustic components from overloaded input signals and eliminates output clipping, with the net result of extremely low distortion even at high dynamic SPL, improving the reliability of the whole system.

**DSP Technology** : The DSP features 24Bit/ 96KHz signal sampling rate, processing gain, crossover frequency, phase, output delay and a unique Limita™ precise limiter.



## EA5 series active dsp-controlled loudspeaker

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- 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. 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.

- EA5 Series have 6 models in total, EA508, EA510, EA512 & EA515 full range speaker matching with EA5118& EA5212 subwoofer.



## Key selling point of EA5



### 2000W Peak Power

Strong and dynamic

### 3 Application Modes

Plug& Play, 3 presets for easy usage

### 136dB SPL

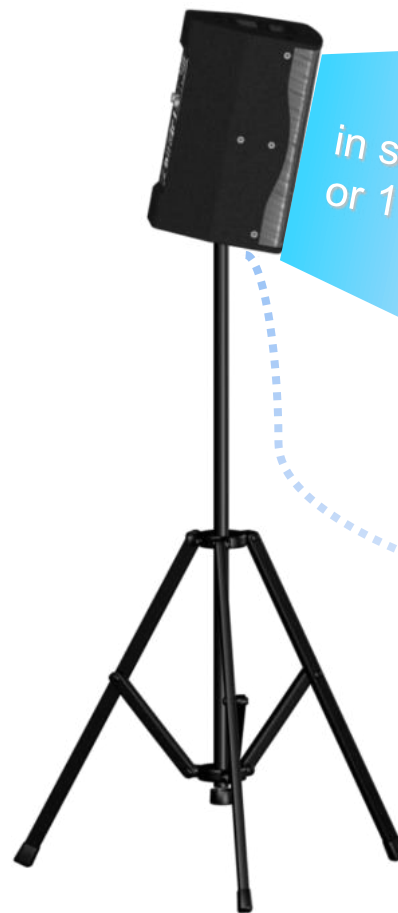
Loud

### Strong Brain DSP

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.

### Adjustable Angle and Accurate Coverage

Customized pole mount can realize 0° straight firing and 10° down-tilt coverage easily.



in straight-firing  
or 10° down-tilt



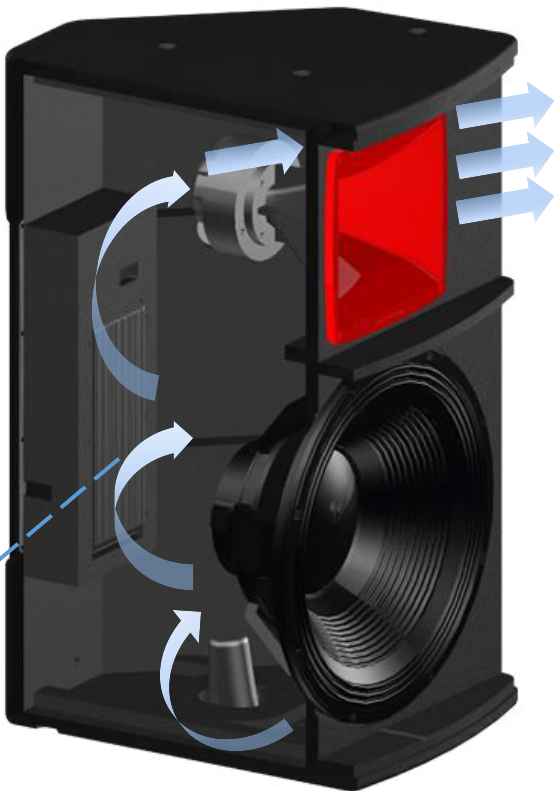
The adjustable base

## Key selling point of EA5



### Portable Design

Patented ergonomic handles and multiple customized accessories make EA5 an easy carry portable speaker.



### Advanced Cooling System

High efficiency Class D amplifier module with advanced cooling system and honeycomb shape big heatsink, plus BrainCore™ technology inside offer a very cool working environment for EA5 speakers. Result is higher reliability, even working outdoor for long hours.

### Solid Wooden Cabinet

Excellent wooden cabinet for premium sound performance

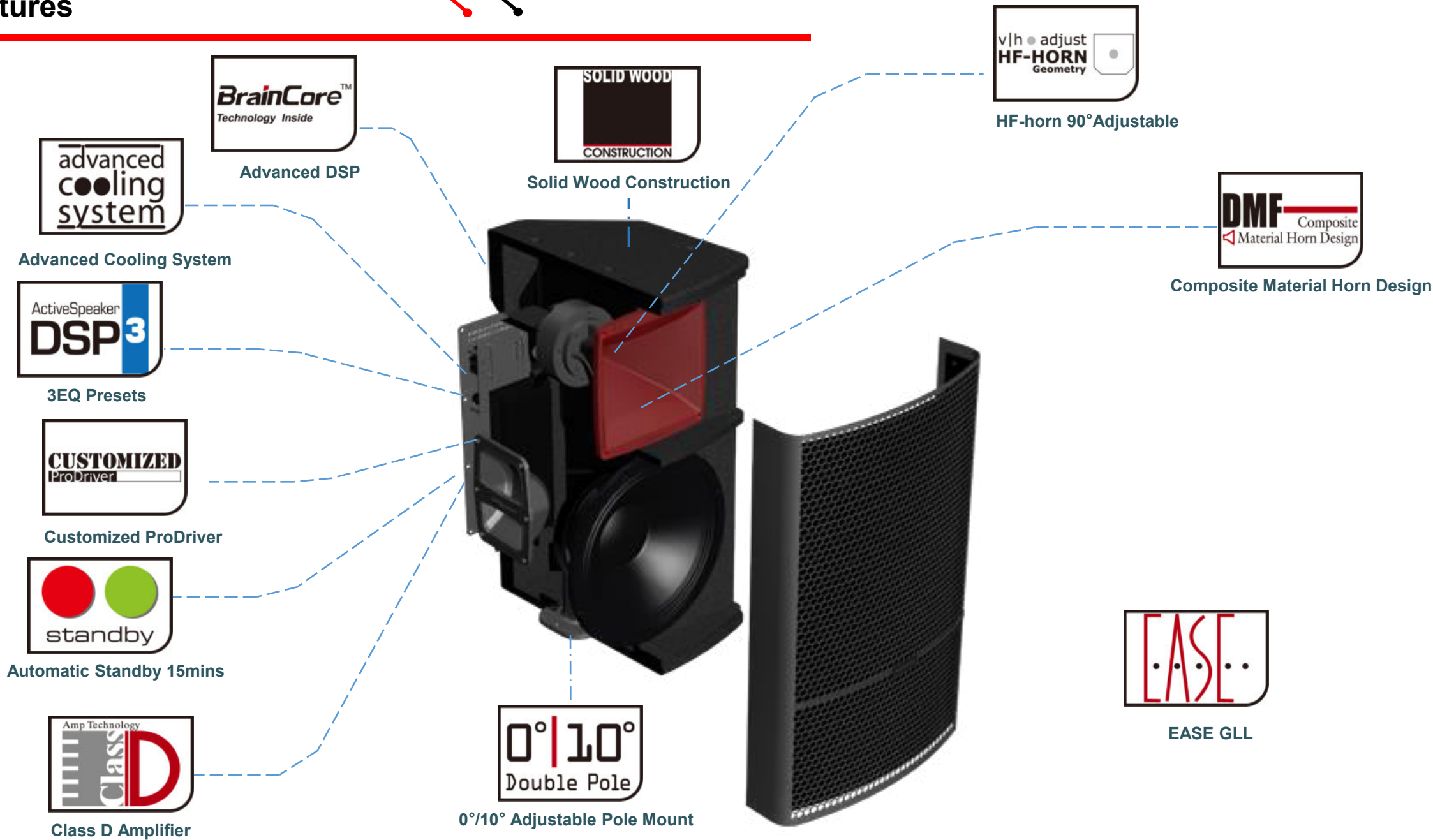


### Fashion Outlook

### BrainCore™ inside



# Features





# EA5 series function introduction



- 1 Power Indicator
- 2 SIG A (SIGNAL) Indicator
- 3 SIG B (SIGNAL) Indicator
- 4 CLIP Indicator
- 5 PRO (PROTECT) Indicator
- 6 LED ON/OFF Switch
- 7 MIC Input Switch
- 8 INPUTS (MIC / LINE A)
- 9 OUTPUTS (OUT A)
- 10 INPUTS (LINE B)
- 11 OUTPUTS (MIX OUT)
- 12 Aux Input
- 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 AC Input Socket

## EA5 series function introduction

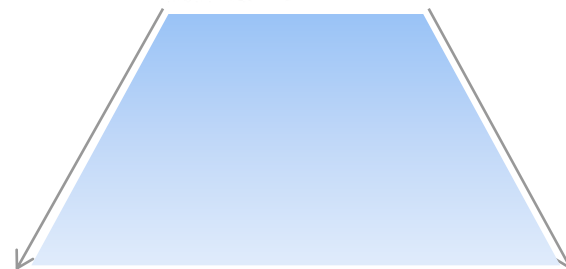
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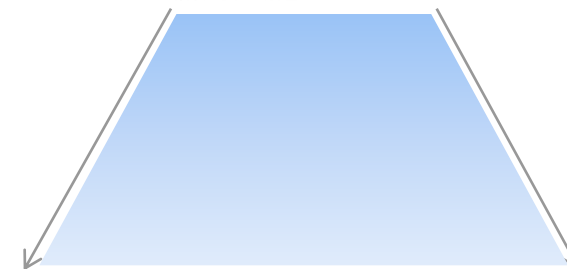
**EA508** 90° coverage



**EA510** 90° coverage



**EA512** 60° coverage



**EA515** 60° coverage

EA5 series specification



Specifications		EA508	EA510	EA512	EA515
Frequency Response ( -6dB anechoic chamber)		60Hz-20KHz	55Hz-20KHz	45Hz-20KHz	40Hz-20KHz
Driver	HF	Customized Beyma HF driver , ferrtie,1"exit , 1.7"voice coil			
	LF	Customized Audiocenter LF driver , ferrtie, 2"voice coil	Customized Audiocenter LF driver , ferrtie, 2.5"voice coil	Customized Audiocenter LF driver , ferrtie,3"voice coil	
Directivity ( -6dB) ( H° xV° )		90° x60°		60° x40°	
Maximum Calculated SPL/1M	Continuous	123dB	125dB	128.5dB	130.5dB
	Program	126dB	128dB	131.5dB	133.5dB
	Peak	129dB	131dB	134.5dB	136.5dB
Anerage H2 Distortion (200Hz-10KHz)		< 2% at 1W			
Anerage H3 Distortion (200Hz-10KHz)		< 0.5% at 1W			
Consistency		±1.5dB(150Hz-10KHz)			

## EA5 series specification



### DSP

Processor	96KHz signal sampling frequency , 24-bit precision
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### Amplifier

Amplifier Circuitry		Class D
Power ( Peak )		2000W
Frequency Response(1W 8Ω 2ch)		20Hz-20KHz(±1dB)
Intermodulation Distortion		< 0.1%
Cooling System		Cooling with fans
Input Impedance		XLR: Balanced 40KΩ /Unbalanced 20 KΩ
Input sensitivity(Gain maximum)		LinE : +3dB   RCA(Stereo input) : -9dB   MIC:-24dB
Max input electrical level		LinE : +18dB   RCA(Stereo input) : +6dB   MIC:-9dB
Protection	DC protection	±5V
	Short circuit Protection	√
	Overheat Protection	Reduced output by half at 75°C and shut off AMP at 90°C
	Output overload protection	√
	Soft startup Protection	Around 1s
	Overvoltage protection	Overvoltage protection activated when over 10% of AC rated voltage
	Undervoltage protection	Undervoltage protection activated when less than 10% of AC rated voltage



# EA5 series specification



Crossover	Low pass	By DSP
	High Pass	By DSP

## 箱体部分

Dimensions ( WxHxD)	282x496x350mm	332x548x352mm	374x608x378mm	446x700x440mm
Net Weight	16kg	19kg	26kg	29.5kg
Cabinet	CNC made cabinet			
Base Mount	1 base holes Φ35mm at the bottom,0°and10° adjustable			
Optional Accessories	Single point mounting bracket,"U"Bracke,Coupling bar,Flight case, Durable cover bag			
Technical Support and After-sales Service	Global applcation support team, EASE GLL files available			

EA5 series specification



Specifications		EA5212	EA5118
Frequency Response ( -6dB anechoic chamber)		42Hz-200Hz	35Hz-150Hz
Driver	LF Transducer	Customized Audiocenter LF driver, ferrite,3.5" voice coil	Customized Audiocenter LF driver, ferrite,4" voice coil
Directivity ( -6dB) ( H° xV° )		/	
Maximum Calculated SPL/1M	Continuous	131dB	133dB
	Program	134dB	136dB
	Peak	137dB	139dB
Anerage H2 Distortion (200Hz-10KHz)		<2% at 1W	
Anerage H3 Distortion (200Hz-10KHz)		<0.5% at 1W	
Consistency		±1.5dB(40Hz-150Hz)	

## EA5 series specification



DSP		
Processor		96KHz signal sampling frequency , 24-bit precision
Amplifier		
Amplifier Circuitry		Class D
Power ( Peak )		2000W
Frequency Response(1W 8Ω 2ch)		20Hz-6KHz(±1dB)
Intermodulation Distortion		< 0.1%
Cooling System		Cooling with fans
Input Impedance		XLR: Balanced 40KΩ /Unbalanced 20 KΩ
Input sensitivity(Gain maximum)		LinE : +3dB
Max input electrical level		LinE : +18dB
Protection	DC protection	±5V
	Short circuit Protection	√
	Overheat Protection	Reduced output by half at 75°C and shut off AMP at 90°C
	Output overload protection	√
	Soft startup Protection	Around 1s
	Overvoltage protection	Overvoltage protection activated when over 10% of AC rated voltage
	Undervoltage protection	Undervoltage protection activated when less than 10% of AC rated voltage

# EA5 series specification



Crossover	Low pass	By DSP
	High Pass	By DSP



Dimensions ( WxHxD)	372x810x604mm	510x625x712mm
Net Weight	47kg	52kg
Cabinet	CNC made cabinet	
Base Mount	1 base holes $\Phi$ 35mm on the top	
Optional Accessories	Coupling bar,Flight case, waterproof cover bag	
Technical Support and After-sales Service	Global application support team, EASE GLL files for free	



# Application

