



Dynamic Audio Solutions

**BrainCore™**  
Technology Inside

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

*Together we are stronger*



### **SA3 Series** Active DSP-controlled Loudspeaker

SA3 series is Audiocenter latest active DSP-controlled Loudspeaker with high performance and high quality/price ratio. SA3 is built with BrainCore™ which analyses and processes the input signal, DSP module and Class D amplifier optimally, improving the audio performance of the system significantly.

Built-in wireless bluetooth makes various bluetooth devices can be linked to SA3 easily and get the audio output.

SA3 is designed for fixed installation and touring performance, such as multi-functional conference room, house of worship, museum, wedding, lecture, DJ, stage monitor , etc.

#### **CONTACT WITH US !**

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E-book: [www.yunzhan365.com/bookcase/whqq/](http://www.yunzhan365.com/bookcase/whqq/)

**AUDIOCENTER INTERNATIONAL**



*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.

### ADVANTAGES







Malaysia Calvary City Church

## 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.



### EQ Adjustable

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



### Advanced Cooling System

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



### Portable Design, Plug&Play

The compact and integrated installation design, integrated and simple control of back panel and fast connect to speaker system make it suitable for fixed installation and touring performance. Very simple and convenient for usage.



### Customized ProDriver

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



### Automatic Standby

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



### Excellent Materials and Unique Physical Acoustics Design

CNC made cabinet of excellent wood reduces resonance and makes the cabinet stronger. Customized driver, physical acoustics construction design and innovative designed, compact and multi-purpose cabinet, provide the clean and clear sound.



### Built-in Bluetooth

Built-in wireless bluetooth makes various bluetooth devices can be linked to SA3 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.



### Unique Horn Design

SA3 adopts unique horn design, which makes the penetration of HF stronger, and get cleaner and clearer sound.



### Class D Amplifier

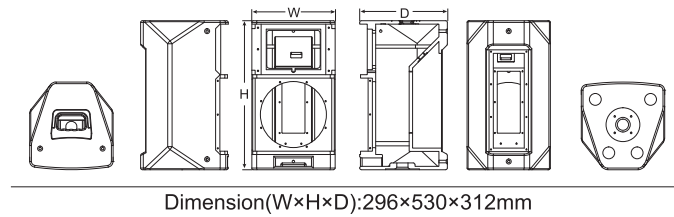
SA3 adopts customized Class D amplifier together with switch mode power technology, which ensures the high efficiency of the system, exquisite and compact outlook and advanced cooling.



### Stylish outlook

Unique geometric modeling makes the cabinet design of SA3 very stylish.

## SA310



Dimension(W×H×D):296×530×312mm

## PRODUCT PROFILE

Two combo inputs CH A (1-way XLR and Mono jack 6.35) are available in SA310, which can be switched between line input and microphone input. The audio port CH B(Mono jack 6.35 or a RCA port) is for the other sound resources like MP3, CD player, etc. There is 1-way signal input port for wireless bluetooth in it and the volume is controlled by terminal. The gain of CH A/CH B signal input is controlled by independent knob and 1-way master volume control knob. The four different audio sources can be parallel output with one-way XLR after mixed internally, and then sent to different speakers for sound distribution.

SA310 can be installed by steel wire. It can also be ground standing by coupling bar or three-feet stand. The pole mount is 35mm. Various accessories are offered for SA310 to meet different kinds of installs.

## SUGGESTED APPLICATION



Multi-functional meeting room



House of worship



Museum



Lecture

## SPECIFICATION

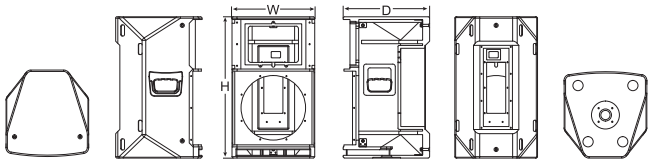
Type	Active DSP-controlled full range loudspeaker
Frequency Response (-6dB anechoic chamber)	57Hz-20KHz
Maximum Calculated SPL/1M	130dB
LF Driver	Customized Audiocenter ferrite driver, 2"voice coil
HF Driver	Customized Audiocenter ferrite driver, 1"exit, 1.75"voice coil
Horizontal Coverage Angle (Symmetrical)	90°
Vertical Coverage Angle (Symmetrical)	60°
<b>AMPLIFIER</b>	
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
<b>DSP</b>	
Processor	96KHz signal sampling frequency, 24bit precision
Presets	Adjustable via the knobs on the back panel
Crossover	Controlled by DSP
Output / Input	
Signal Input	1×NEUTRIK® female XLR(Mono jack 6.35), 1×Mono jack 6.35, 1×RCA, 1×wireless bluetooth
Signal Output	1×NEUTRIK® male XLR
Power Input	3 pin plug
Working Voltage	100V-130V/60Hz or 220V-240V/50Hz
<b>Cabinet</b>	
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Pole Mount	Φ35mm
Dimension (W×H×D)	296x530x312mm
Net Weight	14.5Kg

## SYSTEM CONFIGURATION

- SA3 subwoofer or the same type of subwoofer



SA312



Dimension(W×H×D):356×608×372mm

PRODUCT PROFILE

Two combo inputs CH A (1-way XLR and Mono jack 6.35) are available in SA312, which can be switched between line input and microphone input. The audio port CH B(Mono jack 6.35 or a RCA port) is for the other sound resources like MP3, CD player, etc. There is 1-way signal input port for wireless bluetooth in it and the volume is controlled by terminal. The gain of CH A/CH B signal input is controlled by independent knob and 1-way master volume control knob. The four different audio sources can be parallel output with one-way XLR after mixed internally, and then sent to different speakers for sound distribution.

SA312 can be installed by steel wire. It can also be ground standing by coupling bar or three-feet stand. The pole mount is 35mm. Various accessories are offered for SA312 to meet different kinds of installs.

SUGGESTED APPLICATION



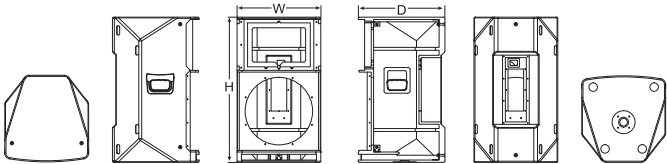
SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Frequency Response (-6dB anechoic chamber)	48Hz-20KHz
Maximum Calculated SPL/1M	132dB
LF Driver	Customized Audiocenter ferrite driver, 3"voice coil
HF Driver	Customized Audiocenter ferrite driver, 1"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	Adjustable via the knobs on the back panel
Crossover	Controlled by DSP
Output / Input	
Signal Input	1×NEUTRIK® female XLR(Mono jack 6.35), 1×Mono jack 6.35, 1×RCA, 1×wireless bluetooth
Signal Output	1×NEUTRIK® male XLR
Power Input	3 pin plug
Working Voltage	100V-130V/60Hz or 220V-240V/50Hz
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
Pole Mount	Φ35mm
Dimension (W×H×D)	356x608x372mm
Net Weight	20.0Kg

SYSTEM CONFIGURATION

- SA3 subwoofer or the same type of subwoofer

SA315



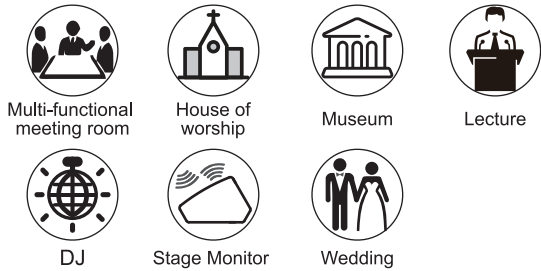
Dimension(W×H×D):439×760×454mm

PRODUCT PROFILE

Two combo inputs CH A (1-way XLR and Mono jack 6.35) are available in SA315, which can be switched between line input and microphone input. The audio port CH B(Mono jack 6.35 or a RCA port) is for the other sound resources like MP3, CD player, etc. There is 1-way signal input port for wireless bluetooth in it and the volume is controlled by terminal. The gain of CH A/CH B signal input is controlled by independent knob and 1-way master volume control knob. The four different audio sources can be parallel output with one-way XLR after mixed internally, and then sent to different speakers for sound distribution.

SA315 can be installed by steel wire. It can also be standing by coupling bar or three-feet stand. The pole mount is 35mm. Various accessories are offered for SA315 to meet different kinds of installs.

SUGGESTED APPLICATION



SPECIFICATION

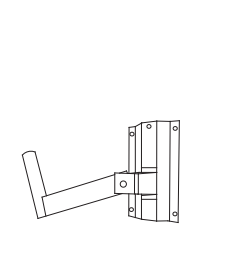
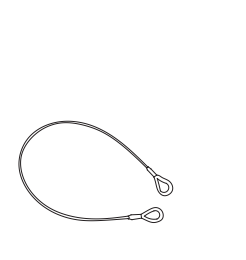
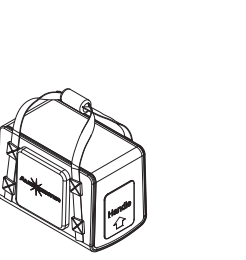
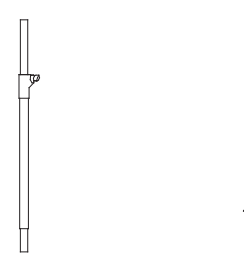
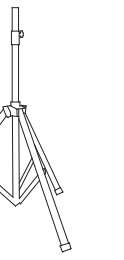
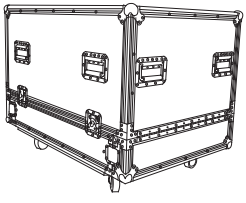
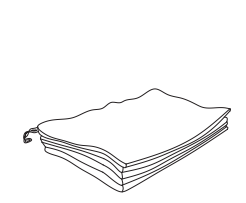
Type	Active DSP-controlled full range loudspeaker
Frequency Response (-6dB anechoic chamber)	44Hz-20KHz
Maximum Calculated SPL/1M	134dB
LF Driver	Customized Audiocenter ferrite driver, 3"voice coil
HF Driver	Customized Audiocenter ferrite driver, 1"exit, 1.75"voice coil
Horizontal Coverage Angle (Symmetrical)	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	Adjustable via the knobs on the back panel
Crossover	Controlled by DSP
Output / Input	
Signal Input	1×NEUTRIK® female XLR(Mono jack 6.35), 1×Mono jack 6.35, 1×RCA, 1×wireless bluetooth
Signal Output	1×NEUTRIK® male XLR
Power Input	3 pin plug
Working Voltage	100V-130V/60Hz or 220V-240V/50Hz
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
Pole Mount	Φ35mm
Dimension (W×H×D)	439x760x454mm
Net Weight	27.0Kg

SYSTEM CONFIGURATION

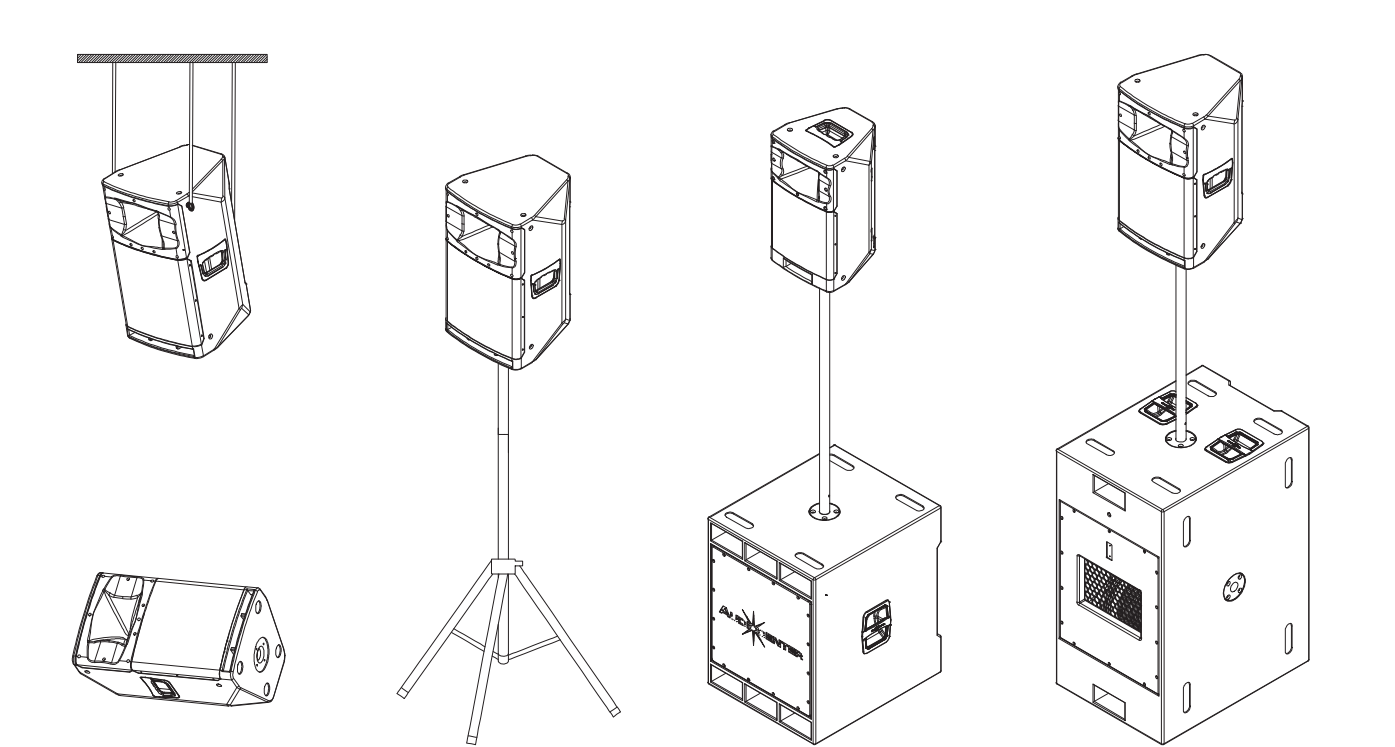
- SA3 subwoofer or the same type of subwoofer



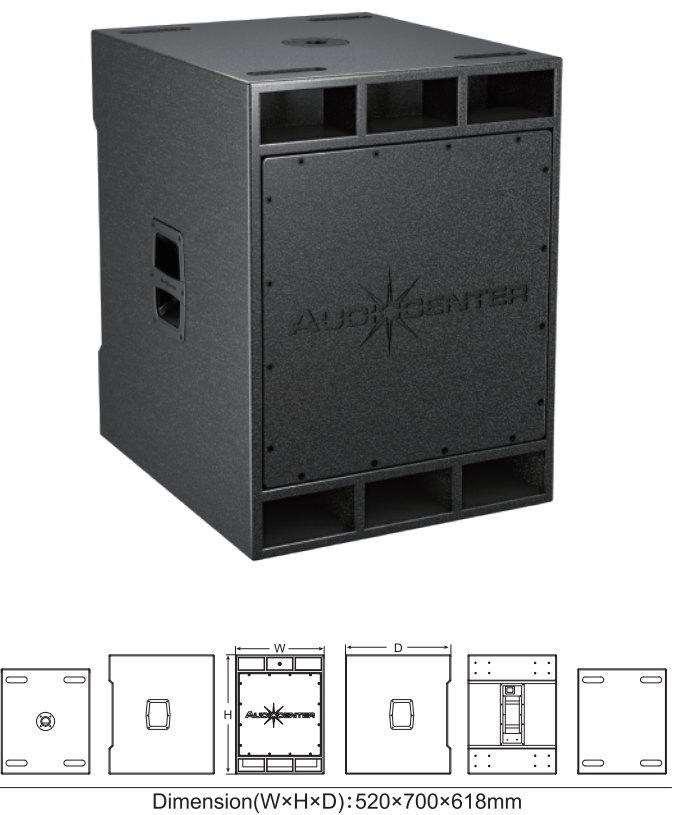
ACCESSORIES FOR SA312/315

				
<b>Flexible wall mounting frame</b> Bearing 40KG	<b>Φ3 steel wire</b> The wire is 3mm diameter, 1M long with wire ear and wire jacket, bearing 60KG	<b>Handbag</b> (customized)	<b>Coupling bar</b> Bearing 50KG	<b>Three-foot stand</b> Bearing 80KG
				
<b>Flightcase</b> For 2 cabinets, with 100mm wheels	<b>Rain bag</b> (customized)			

INSTALLATIONS



SA3118

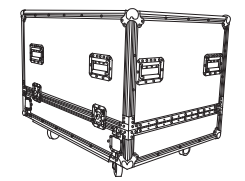
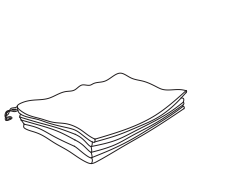
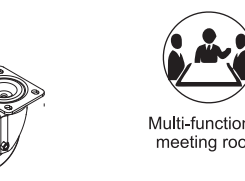
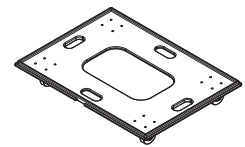


PRODUCT PROFILE

3 low-pass filters (80Hz, 100Hz, 120Hz) in SA3118 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.

SA3118 subwoofer is with 1-way XLR for input and output. Signals can be sent to different speakers for sound distribution.

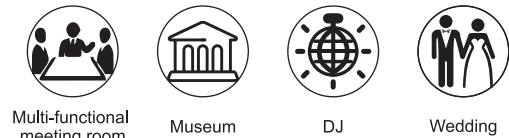
ACCESSORIES FOR SA3118

		
<b>Flightcase</b> For 1 cabinet, with 100mm wheels	<b>Rain bag</b> (customized)	<b>Wheel</b>
		
<b>Dolly</b> (customized)		

SPECIFICATION

<b>Type</b>	Active DSP-controlled Compact Subwoofer
<b>Frequency Response</b> (-6dB anechoic chamber)	35Hz-150Hz
<b>Maximum Calculated SPL/1M</b>	134dB
<b>LF Driver</b>	Customized Audiocenter ferrite driver, 4"voice coil
<b>AMPLIFIER</b>	
<b>Amplifier Circuitry</b>	Class D
<b>Power (Peak)</b>	2000W
<b>Frequency Response</b> (1W 8Ω 2ch)	20Hz-6KHz(±0.5dB)
<b>Intermodulation Distortion</b>	<0.05%
<b>Total Harmonic Distortion</b>	<0.05%
<b>Protection</b>	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
<b>Cooling System</b>	Cooling with fans, air convection
<b>DSP</b>	
<b>Processor</b>	96KHz signal sampling frequency, 24bit precision
<b>Presets</b>	80Hz, 100Hz, 120Hz
<b>Crossover</b>	Controlled by DSP
<b>Output/Input</b>	
<b>Signal Input</b>	1×NEUTRIK® female XLR
<b>Signal Output</b>	1×NEUTRIK® male XLR
<b>Power Input</b>	3 pin plug
<b>Working Voltage</b>	100V-130V/60Hz or 220V-240V/50Hz
<b>Cabinet</b>	
<b>Cabinet Material</b>	CNC made of excellent wood
<b>Cabinet Color</b>	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
<b>Pole Mount</b>	M20 base Φ35mm
<b>Dimension (W×H×D)</b>	520x700x618mm
<b>Net Weight</b>	43.0Kg

SUGGESTED APPLICATION

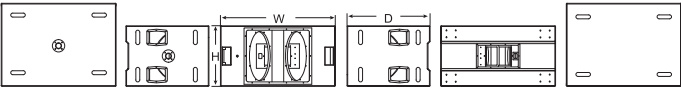


SYSTEM CONFIGURATION

■ SA3 full range loudspeaker or the same type of full range loudspeaker



SA3218



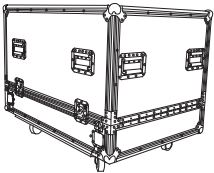
Dimension(W×H×D):988×520×714mm

PRODUCT PROFILE

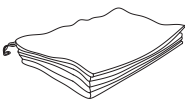
3 low-pass filters (80Hz, 100Hz, 120Hz) in SA3218 are available to choose according to different venues and music styles. There is also phase switch. All connectors and function buttons are on the back panel.

SA3218 subwoofer is with 1-way XLR for input and output. Signals can be sent to different speakers for sound distribution.

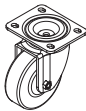
ACCESSORIES FOR SA3218



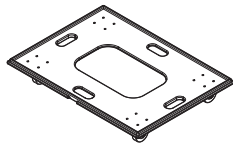
Flightcase  
For 1 cabinet,  
with 100mm wheels



Rain bag  
(customized)



Wheel



Dolly  
(customized)

SPECIFICATION	
Type	Active DSP-controlled Compact Subwoofer
Frequency Response (-6dB anechoic chamber)	35Hz-150Hz
Maximum Calculated SPL/1M	140dB
LF Driver	Customized Audiocenter ferrite driver, 4"voice coil
AMPLIFIER	
Amplifier Circuitry	Class D
Power (Peak)	4000W
Frequency Response (1W 8Ω 2ch)	20Hz-6KHz(±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×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	3 pin plug
Working Voltage	100V-130V/60Hz or 220V-240V/50Hz
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
Pole Mount	M20 base Φ35mm
Dimension (W×H×D)	988x520x714mm
Net Weight	70.0Kg

SUGGESTED APPLICATION



Multi-functional meeting room



Museum



DJ



Wedding

SYSTEM CONFIGURATION

- SA3 full range loudspeaker or the same type of full range loudspeaker

SA3 Series Specifications

SPECIFICATIONS		SA310	SA312	SA315	SA3118	SA3218
Frequency Response (-6dB anechoic chamber)		57Hz-20KHz	48Hz-20KHz	44Hz-20KHz	35Hz-150Hz	
Directivity -6dB(H°×V°)		90° × 60°	60° × 40°		/	
Maximum Calculated SPL/1M	Continuous	124dB	126dB	128dB	128dB	134dB
	Program	127dB	129dB	131dB	131dB	137dB
	Peak	130dB	132dB	134dB	134dB	140dB
Drivers	HF	Customized Audiocenter ferrite driver,1.75" voice coil,1" exit			/	
	LF	Customized Audiocenter ferrite driver, 2" voice coil	Customized Audiocenterferrite driver, 3" voice coil		Customized Audiocenter ferrite driver, 4" voice coil	
Crossover and Slope		Controlled by DSP				
Signal Input/Output Connector		1×NEUTRIK® female XLR (Mono jack 6.35) ,1×Mono jack 6.35, 1×RCA, 1×wireless bluetooth			Female XLR input, Male XLR output	
Power Input/Output Connector		3 pin plug				
Working Voltage		100V-130V/60Hz or 220V-240V/50Hz				

DSP

Processor	96KHz signal sampling frequency, 24bit precision	
Presets	Adjustable via the knobs on the back panel	80Hz,100Hz,120Hz

AMPLIFIER

Amplifier		Class D	
Power(Peak)		2000W	4000W
Frequency Response (1W 8Ω 2ch)		20Hz-20KHz(±0.5dB)	20Hz-6KHz(±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				
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors				
Optional Accessories	Flexible wall mounting bracket / Coupling bar / Flightcase / Durable rain bag / Handbag			Flightcase / Wheel / Coupling bar / Durable rain bag	
Dimensions(W×H×D)	296x530x312mm	356x608x372mm	439x760x454mm	520x700x618mm	988×520×714mm
Net Weight	14.5Kg	20.0Kg	27.0Kg	43.0Kg	70.0Kg
Technical Support and After-sales Service	Global application support team				