



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.

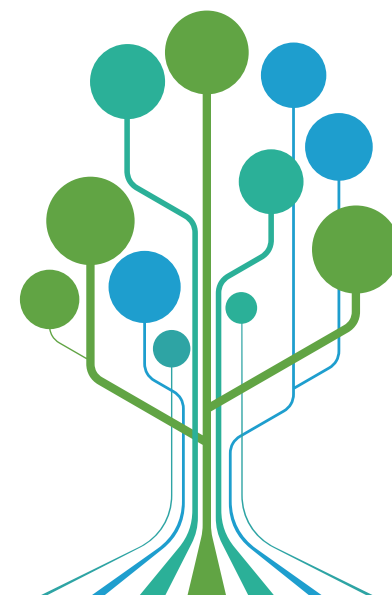
Built-in wireless bluetooth makes various bluetooth devices can be linked to SA3 easily and get the audio output.

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.





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



### 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

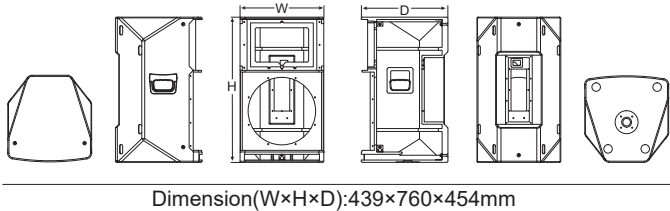
SA3 adopts customized Class D amplifier together with switch mode power supply technology, which ensures the high efficiency of the system, exquisite and compact outlook and advanced cooling.



### Stylish outlook

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

# SA315

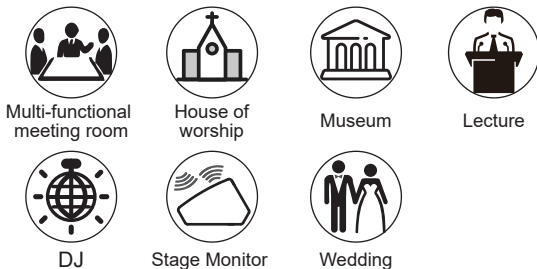


## PRODUCT PROFILE

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



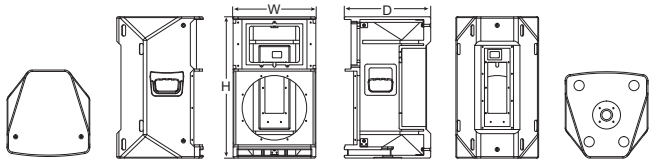
## SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Frequency Response(-10dB)	44Hz-20kHz
Horizontal Coverage	60°
Vertical Coverage	40°
Maximum Calculated SPL/1M(Continuous/Peak)	128dB/134dB
HF Driver	Customized driver,1.75" voice coil, 1.0" exit
LF Driver	Customized 15" driver, 3.0" voice coil
DSP	
Processor	48kHz signal sampling frequency
AMPLIFIER	
Amplifier Circuitry	Class D
Power (RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<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	1× female XLR(Mono jack 6.35), 1× Mono jack 6.35, 1×RCA, 1× wireless bluetooth
Signal Output	1× male XLR
Power Input	IEC power connector
AC Power Operating Range	100-240V~ (±10%,50/60Hz)
Power consumption (1/8 output power)	64W
CABINET	
Cabinet Material	CNC machined plywood
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Monitor Angle	Symmetrical 45° monitoring Angle
Hanging Hardwares	M8 screw
Pole Mount	Base hole Φ35mm
Speaker Dimension (W×H×D)	439x760x454mm
Carton Dimension (W×H×D)	525×855×540mm
Net Weight	27.0kg
Shipping Weight	30.5kg

## 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.

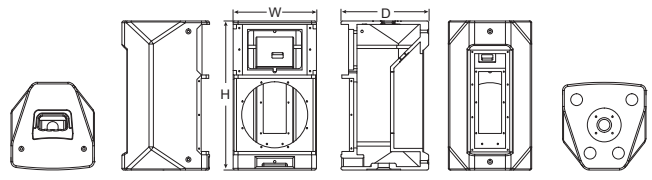
SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Frequency Response(-10dB)	48Hz-20kHz
Horizontal Coverage	60°
Vertical Coverage	40°
Maximum Calculated SPL/1M(Continuous/Peak)	126dB/132dB
HF Driver	Customized driver,1.75" voice coil, 1.0" exit
LF Driver	Customized 12" driver, 2.5" voice coil
DSP	
Processor	48kHz signal sampling frequency
AMPLIFIER	
Amplifier Circuitry	Class D
Power (RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<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	1× female XLR(Mono jack 6.35), 1× Mono jack 6.35, 1×RCA, 1× wireless bluetooth
Signal Output	1× male XLR
Power Input	IEC power connector
AC Power Operating Range	100-240V~ (±10%,50/60Hz)
Power consumption (1/8 output power)	55W
CABINET	
Cabinet Material	CNC machined plywood
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Monitor Angle	Symmetrical 45° monitoring Angle
Hanging Hardwares	M8 screw
Pole Mount	Base hole Φ35mm
Speaker Dimension (W×H×D)	356x608x372mm
Carton Dimension (W×H×D)	442×703×458mm
Net Weight	20.0kg
Shipping Weight	22.0kg

SYSTEM CONFIGURATION

■ SA3 subwoofer or the same type of subwoofer

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.

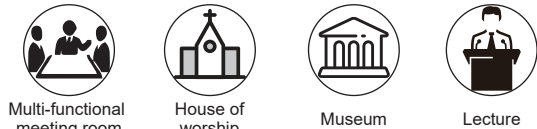
SA310 can be installed by steel wire. It can also be ground standing by coupling bar or three-feet stand. The pole mount is 35mm. Various accessories are offered for SA310 to meet different kinds of installs.

SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Frequency Response(-10dB)	57Hz-20kHz
Horizontal Coverage	90°
Vertical Coverage	60°
Maximum Calculated SPL/1M(Continuous/Peak)	124dB/130dB
HF Driver	Customized driver,1.75" voice coil, 1.0" exit
LF Driver	Customized 10" driver, 2.0" voice coil
DSP	
Processor	48kHz signal sampling frequency
AMPLIFIER	
Amplifier Circuitry	Class D
Power (RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<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	1× female XLR(Mono jack 6.35), 1× Mono jack 6.35, 1×RCA, 1× wireless bluetooth
Signal Output	1× male XLR
Power Input	IEC power connector
AC Power Operating Range	100-240V~ (±10%,50/60Hz)
Power consumption (1/8 output power)	49W
CABINET	
Cabinet Material	CNC machined plywood
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	1 top
Monitor Angle	/
Hanging Hardwares	M8 screw
Pole Mount	Base hole Φ35mm
Speaker Dimension (W×H×D)	296x530x312mm
Carton Dimension (W×H×D)	382×625×398mm
Net Weight	14.5kg
Shipping Weight	16.0kg

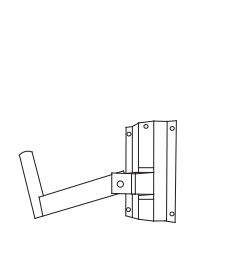
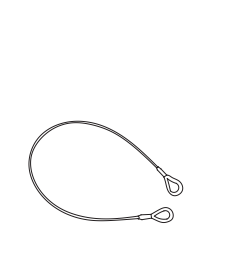
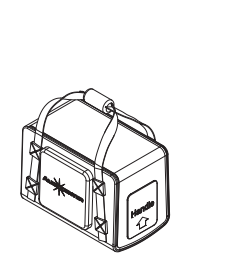
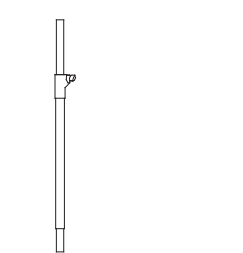
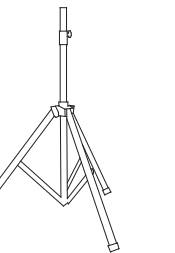
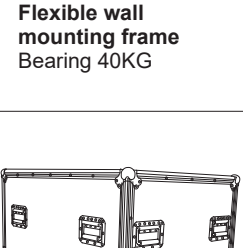
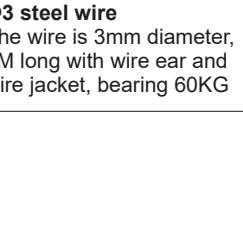
SYSTEM CONFIGURATION

■ SA3 subwoofer or the same type of subwoofer

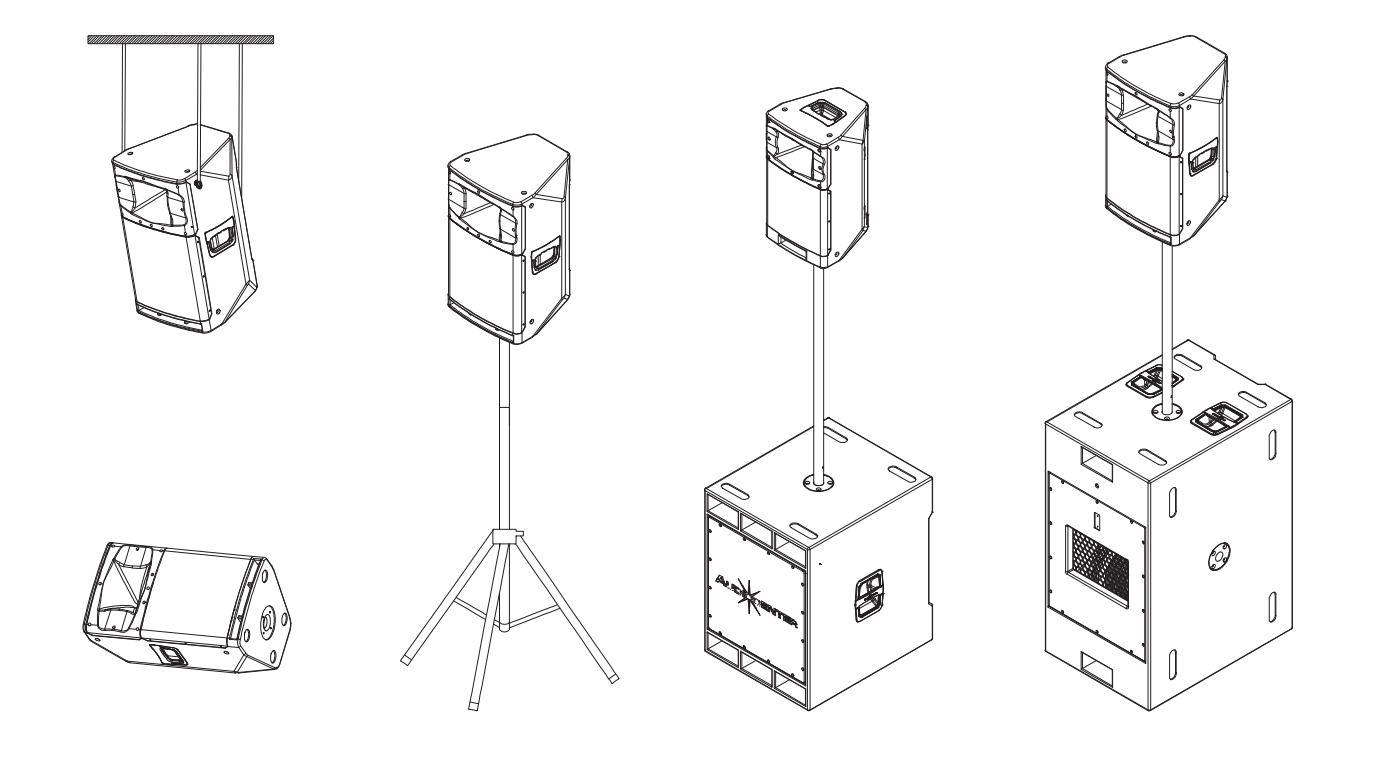




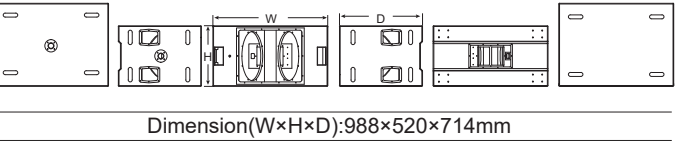
ACCESSORIES FOR SA312/315

				
<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



SA3218

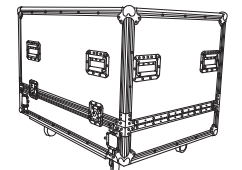
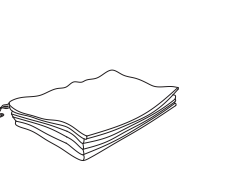

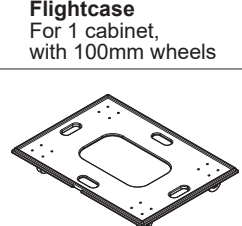


PRODUCT PROFILE

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

		
<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(-10dB)</b>	32Hz-150Hz
<b>Maximum Calculated SPL/1M(Continuous/Peak)</b>	134dB/140dB
<b>LF Driver</b>	Customized 2x18" driver, 4.0" voice coil
<b>DSP</b>	
<b>Processor</b>	48kHz signal sampling frequency
<b>Presets</b>	80Hz, 100Hz, 120Hz
<b>AMPLIFIER</b>	
<b>Amplifier Circuitry</b>	Class D
<b>Power (RMS standards)</b>	2000W
<b>Peak Power</b>	4000W
<b>Frequency Response (1W 8Ω 2ch)</b>	20Hz-20kHz(±0.5dB)
<b>Intermodulation Distortion</b>	<0.05%
<b>Total Harmonic Distortion</b>	<0.05%
<b>Cooling System</b>	Cooling with fans, air convection
<b>Protection</b>	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
<b>Signal Input</b>	Female XLR
<b>Signal Output</b>	Male XLR
<b>Power Input</b>	IEC power connector
<b>AC Power Operating Range</b>	100-130V~/220-240V~(±10%,50/60Hz)
<b>Power consumption (1/8 output power)</b>	237W
<b>CABINET</b>	
<b>Cabinet Material</b>	CNC machined plywood
<b>Cabinet Color</b>	Black is the default color. Contact Audiocenter for customization
<b>Grille</b>	Iron mesh
<b>Handles</b>	4 side
<b>Pole Mount</b>	M20 base Φ35mm
<b>Speaker Dimension (W×H×D)</b>	988x520x714mm
<b>Carton Dimension (W×H×D)</b>	606×1112×800mm
<b>Net Weight</b>	70.0kg
<b>Shipping Weight</b>	75.5kg

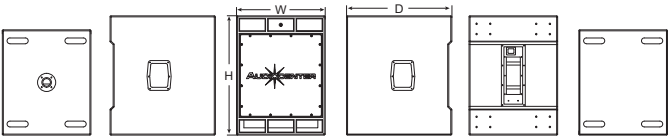
SUGGESTED APPLICATION



SYSTEM CONFIGURATION

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

SA3118



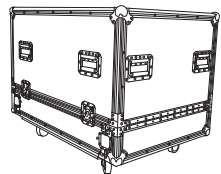
Dimension(W×H×D): 520×700×618mm

PRODUCT PROFILE

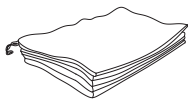
3 low-pass filters (80Hz, 100Hz, 120Hz) in SA3118 are available to choose according to different venues and music styles. There is also phase switch. All connectors and function buttons are on the back panel.

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

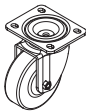
ACCESSORIES FOR SA3118



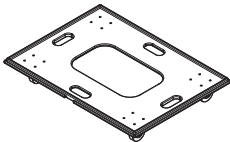
Flightcase  
For 1 cabinet,  
with 100mm wheels



Rain bag  
(customized)



Wheel



Dolly  
(customized)

SPECIFICATION

Type	Active DSP-controlled Compact Subwoofer
Frequency Response(-10dB)	35Hz-150Hz
Maximum Calculated SPL/1M(Continuous/Peak)	128dB/134dB
LF Driver	Customized 1x18" driver, 4.0" voice coil
DSP	
Processor	48kHz signal sampling frequency
Presets	80Hz, 100Hz, 120Hz
AMPLIFIER	
Amplifier Circuitry	Class D
Power (RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	<0.05%
Total Harmonic Distortion	<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	Female XLR
Signal Output	Male XLR
Power Input	IEC power connector
AC Power Operating Range	100-130V~/220-240V~(±10%,50/60Hz)
Power consumption (1/8 output power)	120W
CABINET	
Cabinet Material	CNC machined plywood
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Pole Mount	M20 base Φ35mm
Speaker Dimension (W×H×D)	520x700x618mm
Carton Dimension (W×H×D)	606×825×704mm
Net Weight	43.0kg
Shipping Weight	48.0kg

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		SA315	SA312	SA310	SA3218	SA3118
Frequency Response(-10dB)		44Hz-20kHz	48Hz-20kHz	57Hz-20kHz	32Hz-150Hz	35Hz-150Hz
Directivity -6dB(H°×V°)		60° x 40°		90° x 60°	/	
Maximum Calculated SPL/1M	Continuous	128dB	126dB	124dB	134dB	128dB
	Program	131dB	129dB	127dB	137dB	131dB
	Peak	134dB	132dB	130dB	140dB	134dB
Drivers	HF	Customized driver,1.75" voice coil,1.0" exit				/
	LF	Customized 15" driver, 3.0" voice coil	Customized 12" driver, 2.5" voice coil	Customized 10" driver, 2.0" voice coil	Customized 2x18" driver, 4.0" voice coil	Customized 18" driver, 4.0" voice coil

DSP

Processor	48kHz signal sampling frequency				
Presets	/				80Hz,100Hz,120Hz

AMPLIFIER

Amplifier	Class D				
Power(RMS standards)	1000W			2000W	1000W
Peak Power	2000W			4000W	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				
Signal Input	Female XLR(Mono jack 6.35), Mono jack 6.35, RCA, Wireless bluetooth			Female XLR	
Signal Output	Male XLR				
Power Input Connector	IEC power connector				
Working Voltage	100-240V~(±10%, 50/60Hz)			100V-130V~ or 220V-240V~(±10%,50/60Hz)	
Power consumption (1/8 output power)	64W	55W	49W	237W	120W

CABINET

Cabinet Material	CNC machined plywood				
Cabinet Color	Black is the default color. Contact Audiocenter for customization				
Grille	Iron mesh				
Handles	2 side		1 top	4 side	2 side
Monitor Angle	Symmetrical 45° monitoring Angle		/	/	/
Hanging Hardwares	M8 screw				
Pole Mount	Base hole Φ35mm			M20 base Φ35mm	
Optional Accessories	Flexible wall mounting bracket / Coupling bar / Flightcase / Durable rain bag / Handbag			Flightcase / Durable rain bag / Wheel/Dolly	
Speaker Dimension(W×H×D)	439×760×454mm	356×608×372mm	296×530×312mm	988×520×714mm	520×700×618mm
Carton Dimensions(W×H×D)	525×855×540mm	442×703×458mm	382×625×398mm	606×1112×800mm	606×825×704mm
Net Weight	27.0 kg	20.0 kg	14.5 kg	70.0 kg	43.0 kg
Shipping Weight	30.5 kg	22.0 kg	16.0 kg	75.5 kg	48.0 kg
Technical Support and After-sales Service	Global application support team				

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