

AUDIOCENTER

Dynamic Audio Solutions

BrainCore™

Technology Inside

User's Manual

PRO-S5 SERIES

Active Subwoofer Speaker



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◆ **Product Introduction**

Thank you for purchasing PRO-S5 series active subwoofer from Audiocenter. They have integrated technologies of switch mode power supply, big power digital amplifier and DSP control, as well as speakers made of new materials. It is the result of years of R&D effort. We hope that you can use with pleasure, just as how we designed it. Please finish reading the manual before usage, to make sure the best performance of PRO-S5 series. Please keep the manual for future reference.

◆ **Safety precautions**

When you set up, install and use the PRO-S5 series, please follow the following safety measures strictly:

- There can be danger in any step during hanging installation. Everyone should pay attention to personal safety. All purchasers of Audiocenter should be professional people qualified to conduct the work related to such equipments.
- We strongly suggest the users pay full attention to local rules, regulations and laws.
- Installers have the responsibility to make sure the speaker installations are subject to local rules, regulations, and laws.
- If any danger or defect is detected, measures should be taken immediately to correct it.
- In touring application, please choose the installation hardware and occasion that can sustain the weight of the equipments.
- Please do not try to hang speakers over the design standard.
- When connecting the cables of the products, please use cable tie to fix the cables, to avoid actors, workers, and audience falling on the wire or brackets and affecting the speaker system.
- Please do not place the speakers near equipments sensitive to magnet fields, such as CRT displayer, TV or data saving materials.
- Please do not place the power cable near heating source. Do not over bend or damage the power cables. Do not place heavy things on it. Please do not place the cables that may be pressed or cause stumbling.
- Only the specified rated voltage should be used for this product. Please refer to the back panel of the product for the specified voltage.
- Only the supplied power cable or plug should be used. (If you need to use the product in a place different from the purchase place, please consult your local Audiocenter distributor.)
- Please check the power cable or plug regularly.
- Please make sure to connect to proper power socket with protection grounding connection. Wrong grounding may cause short circuits.
- The product inside does not include any component that can be repaired by users. In case of abnormal operation, please stop using immediately, and contact qualified Audiocenter maintenance worker to repair.
- Please do not use the product in the rain, or near water, or in humid environment, to avoid liquid spilling to any opening.
- When any of the following situations occurs, please cut the power immediately, and pull out the power plug from the socket, and ask qualified Audiocenter maintenance worker to repair.
 - Wear or damage of the power cable or plug.
 - Abnormal smell or smoking.
 - Some substance falls into the product.
 - Sound stops suddenly when using the product.
- If the product falls or damages, please turn off the power switch immediately. Pull out the power plug from the socket, and ask qualified Audiocenter maintenance worker to repair.
- When pulling out the power plug from the power socket or the product, please make sure to grab the plug instead of the power cable. Pulling the power cable directly may cause damage.
- If the product is not used for long time, or there is thunder storm, please pull out the the plug from the socket.
- Please do not place the product in any uneven position. Otherwise, it may cause falling off suddenly.

- If the product is not fixed safely, please do not place it in a position that may cause easy falling.
- Please do not block the air hole. The product has air hole at the back to avoid internal temperature too high. Bad ventilation may cause damage to the product or even fire.
- Please do not hang or install any other component to the handle of the speaker. It may cause damage or injure.
- Please do not press the back panel of the product to the wall. Otherwise, the plug may touch the wall and separate form the cable, and cause short circuits, malfunction, or even fire.
- Before connecting the product to other equipment, please turn off the power switch of all equipments. Before turing on or off the power switch of all equipments, please turn down the volume to the minimum.
- Please do not use the product in a very high or uncomfortable volume. Otherwise, it may cause permanent damage to your ear.
- In case of sound distortion, please do not use the product. To Continue using the product in such status may cause fire.
- Using mobile phones near the speaker may cause noise. In case of noise, please us the mobilephone far from the speaker.
- If you need service, please contact Audiocenter service center, agent, or distributor in your area.

▲ In order to avoid to cause you or others body injury and loss on equipment or property, please make sure to follow above basic items.

Package accessories:

- Power cable
- User's manual
- Quality certificate

Introduction for similar product

Please check above items carefully. If any questions, please advise Audiocenter representative, dealers, distributors, or contact by email box: support@ac-pro.net.

Optional accessories:

- Frame for flying and ground stacking
- Flightcase
- Rain bag
- Dolly

◆ Technical Features



● Features:

1. Innovative BrainCore™ technology to improve the audio performance of the system.
2. PFC Technology: PFC technology enhances electrical efficiency, reduces energy consumption and interference, and ensures stable, reliable, and durable operation
3. Active Speaker DSP
4. Advanced Cooling System
5. Customized ProDriver: Latest speaker technology and customized driver ensure very clean and clear sound and impressive sound dynamic.
6. Class D Amplifier
7. Solid Wood Cabinet
8. Sleep mode: To save power, the system will enter into sleep mode automatically if without signal input for 45 mins.
9. Optional Flying Accessories
10. Durable Polyurea Coating

◆ Control panel and functions



1 POWER Indicator

The indicator is on when speaker is connected to power.

2 SIGNAL Indicator

When detecting channel LINE IN has input signal, the LED is on.

3 LIMITER Indicator

The LED turns on when output limiter is activated. If the output voltage of the amplifier exceeds the maximum value, output limiter will be activated , damping the output signal.

4 PROTECT Indicator

The light turns on if the amplifier is detected to be overheated . And the amplifier enters into the protection status.

5 FRONT LED DISABLE switch

Switch on and the front panel LED indicator is on(operating mode: blue) ; Switch off when the front panel LED indicator is unneeded.

6 INPUT socket(LINE A)

Balanced XLR input socket.(LINE A)

7 OUTPUTS socket(LINE A)

Balanced XLR output socket. Balance the mixed output signal (able to mix and integrate the signals of all channels).

8 INPUT socket(LINE B)

Balanced XLR input socket.(LINE B)

9 OUTPUTS socket(LINE B)

Balanced XLR output socket. Balance the mixed output signal (able to mix and integrate the signals of all channels).

10 MASTER VOLUME control knob

MASTER VOLUME knob controls the gain input signal of all the channels. This control can adjust the sensitivity, so as to control the amount of semaphore sent to the power amplifier and then to the speakers.

11 The polarity of PRO-S5 series

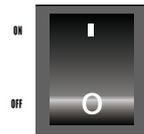
Polarity, also is called as phase, means that the input voltage is positive or negative in specific time. In most case the positive will drive the diaphragm of the speaker to move forward, and the negative will pull it backward. When a specific frequency signal similar signal repeats, the polarity must be the same so that the input efficiency will be the highest, which is very important for subwoofer system. Wrong connection or usage will change the polarity and lower the system's efficiency.

12 PRESET

The low-pass filter cut off frequency specified in 80Hz and 100Hz and Cardioid. The filter will cut frequency higher than the cut-off frequency. When using cardioid, it must be used with 80Hz.

13 POWER switch

Turn the power on or off, pull the switch up to position (1) to turn on the power, and pull the switch down to the position (0) to turn off the power.

**14 AC INPUT slot**

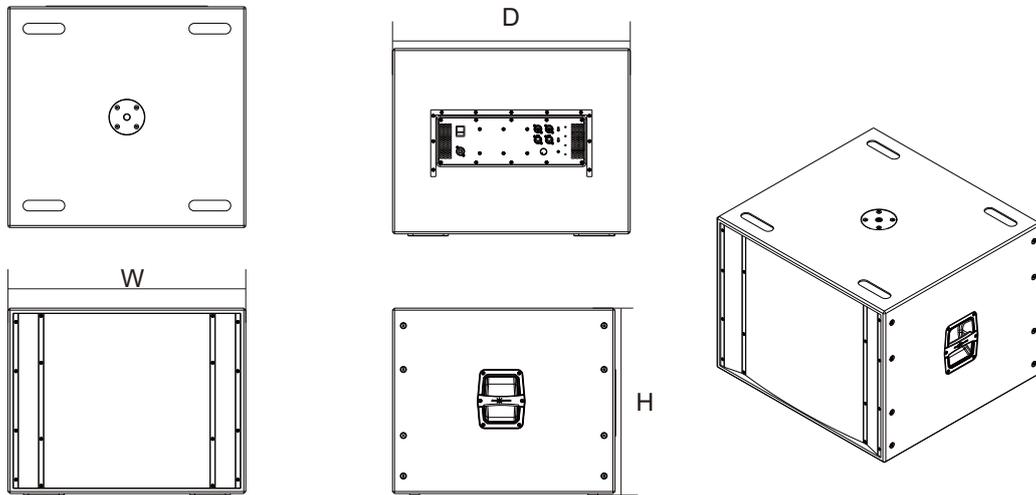
Connect the power cable to the input slot first, and then connect to the AC power.



 Note: PRO-S5 employs a universal power supply, supporting AC power input voltage range at 100V-240V~(50/60Hz). Please choose the right power cable.

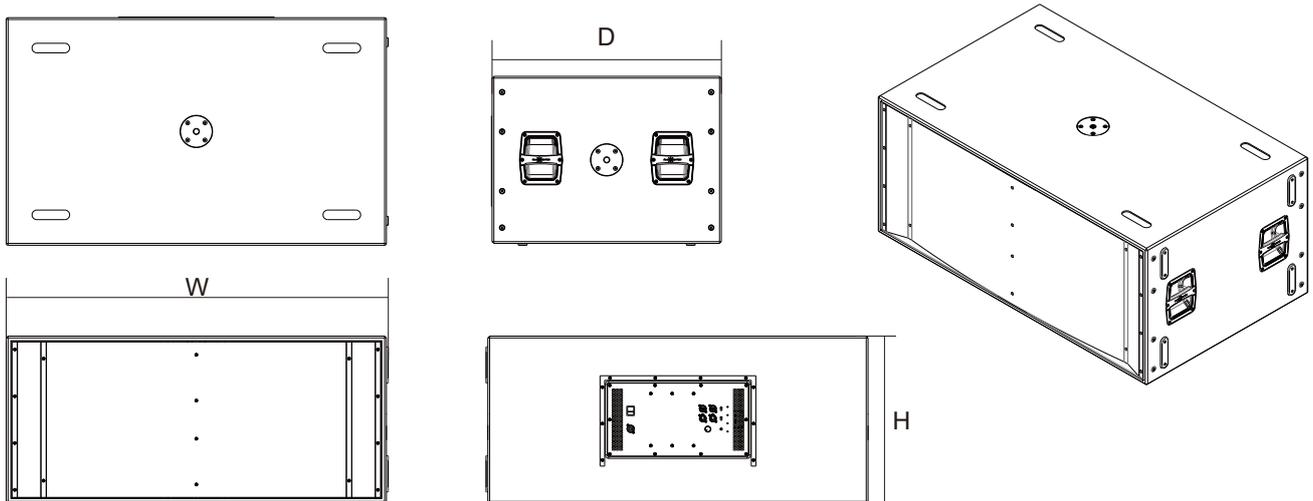
◆ Dimension

● PRO-S5118A



PRO-S5118A SIZE: 700×556×655mm(WxHxD)

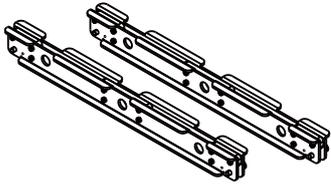
● PRO-S5218A



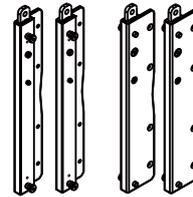
PRO-5218A SIZE: 1248×556×749mm(WxHxD)

◆ Application Examples

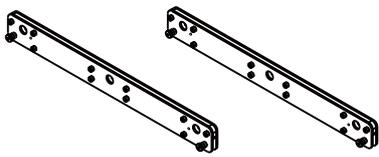
• Accessories



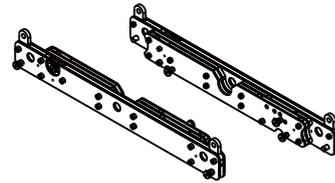
PRO-S5218A Flying frame set



Hanging side-brackets kit

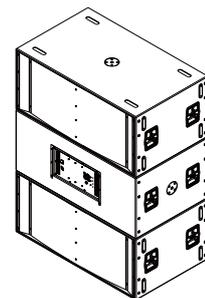
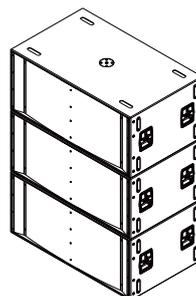
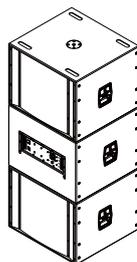
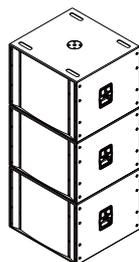
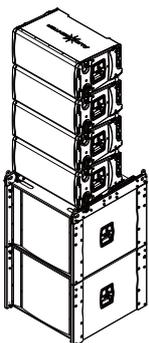
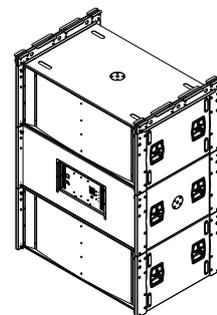
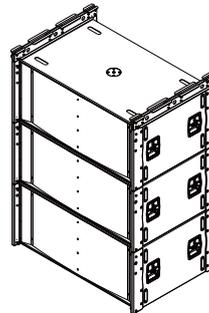
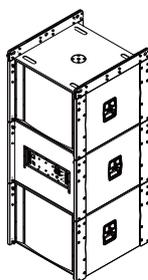
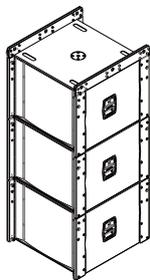
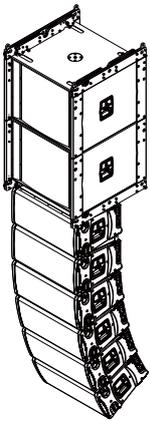


PRO-S5118A Flying frame set



PRO-S5118A&K-LA12A Flying frame set

• Application Examples



SPECIFICATION

SPECIFICATIONS		PRO-S5218A	PRO-S5118A
Frequency Response(-10dB)		28Hz-120Hz	30Hz-130Hz
Maximum Calculated SPL/1M	Continuous	135dB	129dB
	Program	138dB	132dB
	Peak	141dB	135dB
LF Drivers		Customized 2x18" driver,4.0"voice coil	Customized 1x18" driver,4.0"voice coil

DSP	
Processor	48kHz signal sampling frequency
Presets	80Hz,100Hz,Cardioid

AMPLIFIER	
Amplifier	Class D
Power(RMS standards)	3000W
Peak Power	6000W
Frequency Response(1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion (20Hz-20kHz, half power)	<0.05%
Total Harmonic Distortion (20Hz-20kHz, half power)	<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/Output Connectors	Female XLR input, male XLR output
Power Input Connectors	Power connector
Power Output Connectors	/
AC Power Operating Range	100V-240V~(±10%,50/60Hz)
Power consumption(1/8 output power)	295W

CABINET	
Cabinet Material	CNC made of excellent wood
Coating	Durable Polyurea Coating
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	4 side
Pole Mount	M20 base Φ35mm
Speaker Dimension(W×H×D)	1248×556×749mm
Carton Dimensions (W×H×D)	1348×646×854mm
Net Weight	95.0kg
Shipping Weight	102.0kg

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◆ **Trouble Shooting**

Symptom	Possible reasons	Solution
Power LED not light	Cable not connected correctly	Connect the cable correctly
No sound	Cable not connected correctly. Or too small gain.	Connect with input socket correctly. Adjust speaker output gain input bigger.
Feedback in the sound	Microphone is toward to speaker Sound is too high. Wrong preset used.	Keep speakers out of the microphone response area. Lower the output gain,.
Sound Discrepancy from different speakers	Different gain for different speakers Different presets for different speakers Subwoofers are out phase	Put the same gain for different speakers. Use the same presets for different speakers. Make the subs in phase
Sound distortion	Input volume is too big Output volume too big	Reduce the input volume of the equipments Reduce the output gain of the speakers, make the Limiter LED lighted a bit If the sound still distorted while the volume is set to minimum, make the MIC/LINE switch to be LINE.
Microphone volume is too small	MIC/LINE switch is set at LINE	Set the MIC/LINE at MIC
Not enough SPL while full range speakers used together with subs	Subs might be out of phase	Adjust the phase of subs
The light signal is on, there is a signal output, but the speaker does not sound	Maybe the volume knob is set to the minimum, Closing the volume	Slightly increase the volume knob

★ **Please consult distributor if there are still problems**



Dynamic Audio Solutions