


# SEIKAKU TECHNICAL GROUP LIMITED

客 戶	ALTO				
料 號	NF03324				
品 名	說明書-RS 英文				
規 格	SR800SA/SR400P ALTO_V1.0				
公司機種(客戶機種)成品料號	SR800SA				
重 量/ 基 數	0.02KG/1				
材 質	105G銅版紙				
紙張展開性質	<input type="checkbox"/> A3 <input checked="" type="checkbox"/> A4 <input type="checkbox"/> A5 <input type="checkbox"/> 其它			紙張展開數量	3
核 准		校 稿		製 稿	
產品文件編號: PHFUA102-20090700043					
陽片數量: 6 張					
備注: 依評審表AL-0903004出圖 附菲林					

**SR800SA + SR400P  
LOUDSPEAKER SYSTEM**



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NF03324-1.0

www.altoproaudio.com  
Version 1.0 Jul 2009  
**English**

# IMPORTANT SAFETY INSTRUCTION



**TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.**

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

- ⊕ Protective Ground Terminal
- ~ AC mains (Alternating Current)
- ⚡ Hazardous Live Terminal

ON: Denotes the product is turned on.  
OFF: Denotes the product is turned off.

### CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.

4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.

7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.

8. Unplug this equipment when unused for long periods of time or during a storm.

9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.

10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

## WARNING

**To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.**



**Dispose of this product should not be placed in municipal waste and should be separate collection.**

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart / equipment combination to avoid possible injury from tip-over.

12. Permanent hearing loss may be caused by exposure to \ extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

HOURS X DAY	SPL	EXAMPLE
8	90	Small gig
6	92	train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1,5	102	
1	105	
0,5	110	
0,25 or less	115	Rock concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

## 8. WARRANTY

### 1. WARRANTY REGISTRATION CARD

To obtain Warranty Service, the buyer should first fill out and return the enclosed Warranty Registration Card within 10 days of the Purchase Date. All the information presented in this Warranty Registration Card gives the manufacturer a better understanding of the sales status, so as to purport a more effective and efficient after-sales warranty service. Please fill out all the information carefully and genuinely, miswriting or absence of this card will void your warranty service.

### 2. RETURN NOTICE

- 2.1 In case of return for any warranty service, please make sure that the product is well packed in its original shipping carton, and it can protect your unit from any other extra damage.
- 2.2 Please provide a copy of your sales receipt or other proof of purchase with the returned machine, and give detail
- 2.3 A brief description of the defect will be appreciated.
- 2.4 Please prepay all the costs involved in the return shipping, handling and insurance.

### 3. TERMS AND CONDITIONS

- 3.1 ▲LTO warrants that this product will be free from any defects in materials and/or workmanship for a period of 1 year from the purchase date if you have completed the Warranty Registration Card in time.
- 3.2 The warranty service is only available to the original consumer, who purchased this product directly from the retail dealer, and it can not be transferred.
- 3.3 During the warranty service, ▲LTO may repair or replace this product at its own option at no charge to you for parts or for labor in accordance with the right side of this limited warranty.
- 3.4 This warranty does not apply to the damages to this product that occurred as the following conditions:
  - Instead of operating in accordance with the user's manual thoroughly, any abuse or misuse of this product.
  - Normal tear and wear.
  - The product has been altered or modified in any way.
  - Damage which may have been caused either directly or indirectly by another
- 3.5 In no event shall ▲LTO be liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.
- 3.6 This warranty gives you the specific rights, and these rights are compatible with the state laws, you may also have other statutory rights that may vary from state to state.

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## 1. INTRODUCTION

Thank you very much for expressing your confidence in ▲LTO products by purchasing SR800SA + SR400P loudspeaker system. The system is specifically designed for using in hi-quality performance site and the precise sound reinforcement commercial place. It uses trapezium configuration which greatly decreases the resonance of the standing wave in the cabinet and uses hi-density matrix spray-paint technics and the bottom bracket design which make mounting quickly and flexibly.

SR800SA + SR400P is a complete system that integrates in the same unit loudspeakers, amplifiers and analog processor. The system includes two different models:

- SR800SA: It's a sub-woofer mounting a 15" woofer in a vented cabinet includes Bi-amp 400W + 400W, one for the sub-woofer, and the other one for the full-range satellite SR400P. The standard combination with the SR400P requires one sub for each satellite.
- SR400P: It's a passive speaker includes a 1.35" horn-loaded compression driver and a 12" woofer in a vented cabinet. It can be used as a full-range system or as a satellite in combination with the SR800SA.

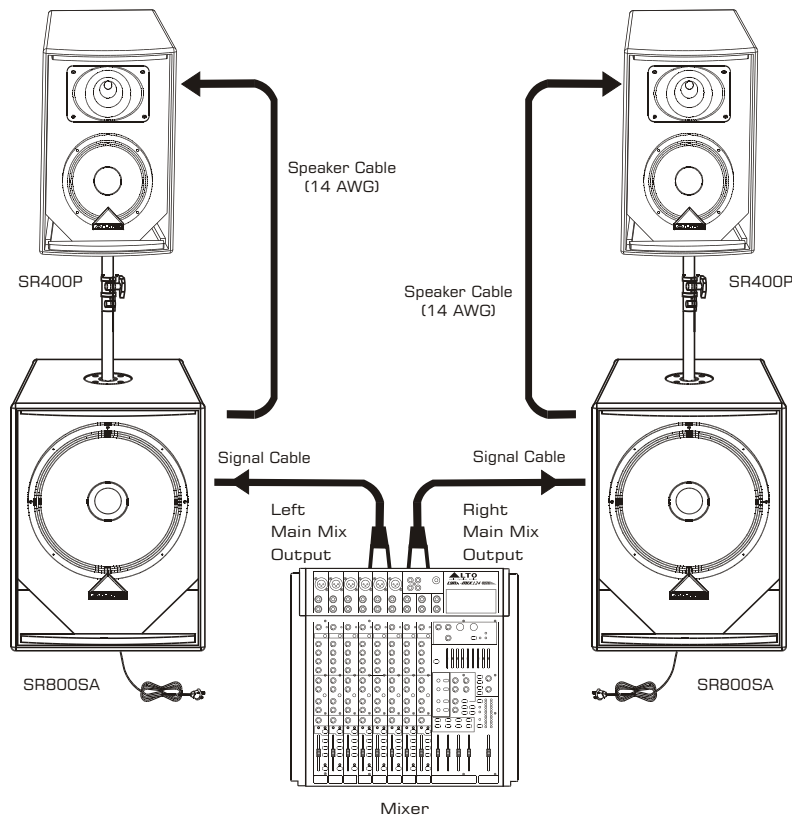
Enjoy your SR800SA + SR400P loudspeaker system and make sure to read this manual carefully before operation.



## 2. SPEAKER CABINET QUICK START

Make all initial connections with all the equipment powered off, and ensure that all the main volume controls are turned completely down.

1. Connect one side of the signal cable at your audio mixer into output left /right (with Stereo-Jack or XLR) and the other side of the cable into the line input (Stereo-Jack) of your active speaker cabinet.
2. Connect the power cord to mains.
3. Turn on your mixer first, then the active speaker cabinets.
4. Turn up the volume control of the active speaker cabinets.
5. Use PFL function to get the proper input level for the mixer, and adjust the main mix level control to manipulate the output level.
6. After using, turn off your active speaker cabinets first, then the mixer.



## 7. TECHNICAL SPECIFICATION

SR800SA	15" Compact subwoofer Active Speaker Cabinet
Power System	2 x 500W CLASS AB in EIAJ 2 x 400W CLASS AB in Continuous
Frequency Response	42Hz-125Hz (-10dB)
Maximum SPL @ 1m	122dB Continuous / 125dB Peak (Calculated)
Transducer Low	15" Woofer, 3" High Power voice coil
Active Crossover	HPF 80Hz under analog processor
Input / Output	LINE-COMBO/LINK-XLR-M, OUT SAT with SPK NL-4
Input Level	Line OdBu
External Control	Volume SUB / Volume SAT / Phase NORMAL-REVERSE / Power ON with Green LED / Clip Limiter with Red LED / Ground Lift
Power Supply	120-240 Volt, in Switching Power mode.
Enclosure Construction	18mm multi-layer Plywood , glued and reinforced, black-scratch resistant paint, metal grille and rubber footer foot, four optional wheel
Mounting	One standard metal pole-mount , plus one metal handle.
Dimensions (HxWxD)	591x 451 x 554mm (23.3" x 17.8" x 21.8")
Net Weight	39.8 kg / 87.7 lbs
Shipping Weight	43.4 kg / 95.6 lbs

SR400P	12" 2-way Passive Speaker Cabinet
Power System	400W Continuous in AES Standard
Frequency Response (-10dB)	47Hz-20kHz (-10dB)
Sensitivity (1w @ 1mt)	94dB SPL
Impedance:	4 Ω (nominal)
Maximum SPL @ 1m	122dB Continuous / 125dB Peak (Calculated)
Coverage (HXV)	90° x 45° nominal
Transducer Low	12" Woofer, 2.5" High Power voice coil
Transducer High	1" Driver with 1.4" voice coil, Titanium Diaphragm
Horn Type	Elliptical Waveguide
Passive Crossover	2kHz at 12dB/oct with Electronic Protection
Input Connector	INPUT / THRU with SPK NL-4
Enclosure Construction	Trapezoidal shape, 15mm multi-layer Plywood , black-scratch resistant paint, metal grille and footer foot.
Mounting / Suspension	One metal pole-mount , two metal handle
Dimensions (HxWxD)	615 x 377.5 x 377.8mm (24.2" x 14.9" x 14.9")
Net Weight	16.8 kg / 37.1 lbs
Shipping weight	19.1 kg / 42.1 lbs



## 6. PANEL DESCRIPTION-SR400P

### CONNECTION PLATE

#### PASSIVE FULL RANGE: SR400P

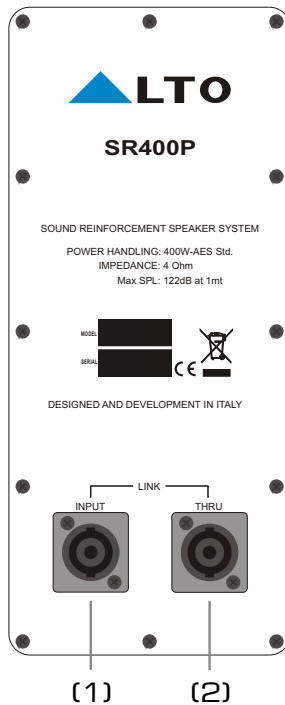
##### (1) INPUT

Receive the signal coming from an external power amplifier.  
(SPK +1/-1 connected; +2/-2 not connected)

##### (2) THRU

Direct LINK for connect in parallel a second speaker cabinet.  
(SPK +1/-1 connected; +2/-2 not connected)

Besides, the passive crossover included the electronic protection on the driver.

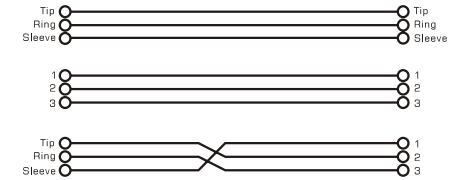
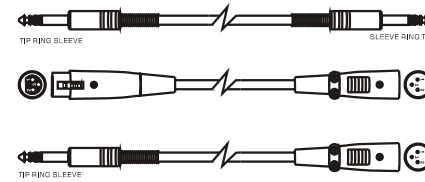


## 3. WIRE CONNECTIONS

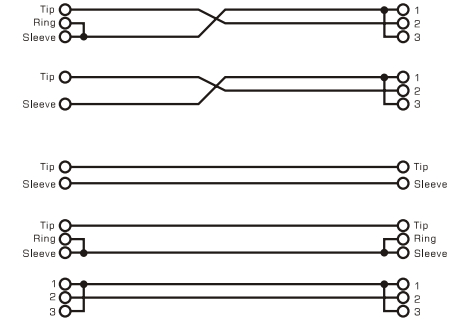
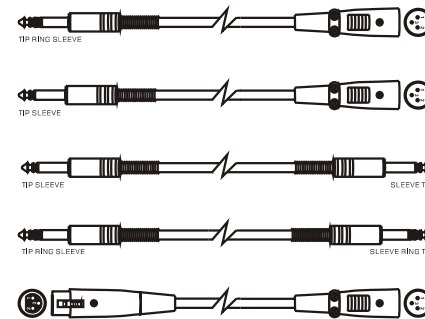
### -For Active Speaker Cabinets

As to these circumstances, audio connections is mostly intended for the signal flow, so, determine the wire configuration according to your real application system and its connecting facility. Normally, you have the following choices:

#### • Balanced

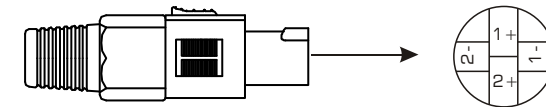


#### • Unbalanced



### -For Passive Speaker Cabinets

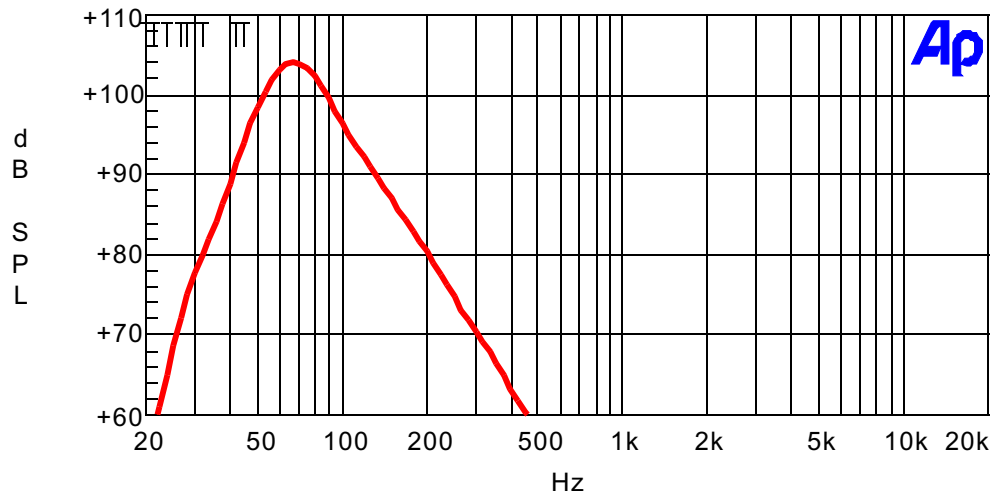
Please only use the power connectors to make connections with other signal source equipment for the passive speaker cabinets. The power connector has four terminals: 1+, 1-, 2+, 2-.



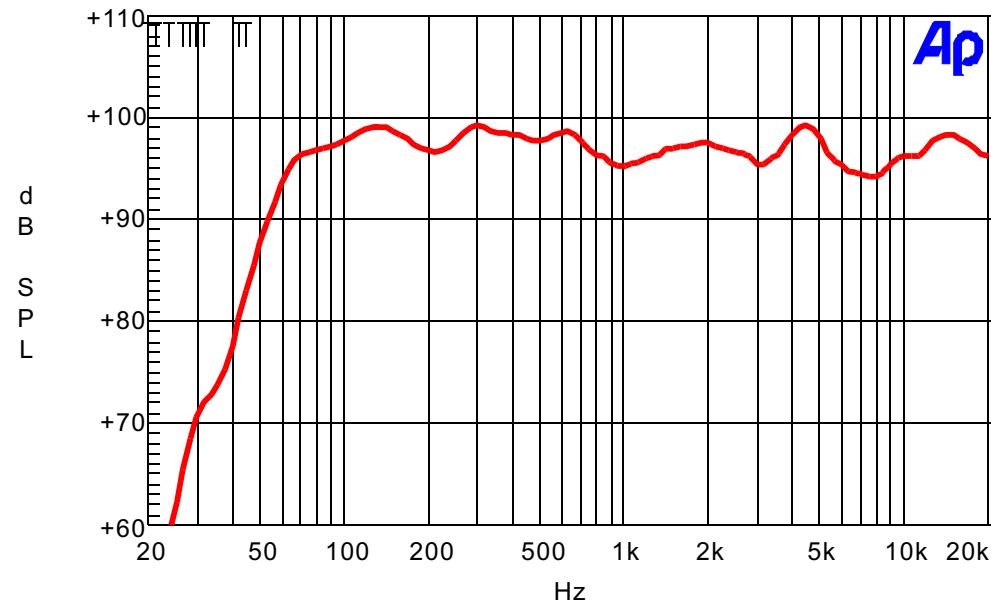
In our cabinets, only 1+/- are used to connect the Speaker+ / Speaker-, and 2+/- are not used.

## 4. FREQUENCY RESPONSE

SR800SA

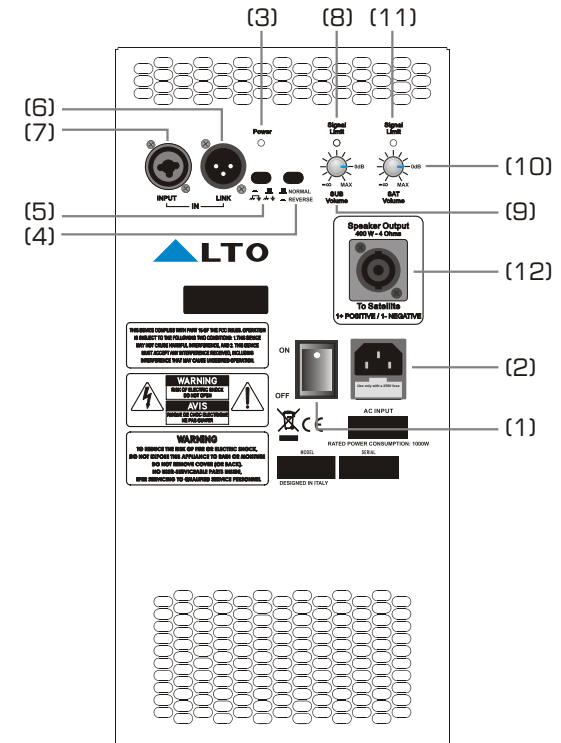


SR400P



## 5. PANEL DESCRIPTION-SR800SA

### ACTIVE SUBWOOFERS: SR800SA



- (1) ON-OFF: Main power switch
- (2) AC INPUT: AC power socket with main fuse
- (3) POWER LED: Green color indicates ON status
- (4) PHASE SWITCH: Reverse the polarity of the subwoofer output
- (5) GROUND LIFT SWITCH
- (6) LINE IN RIGHT: On XLR connector
- (7) LINE IN LEFT/MONO: On COMBO connector
- (8) SIGNAL/LIMIT LED: Red color indicates ON status of the subwoofer output
- (9) SUB VOLUME: Volume control of the subwoofer output
- (10) SAT VOLUME: Volume control of the satellite(SR400P)
- (11) SIGNAL/LIMIT LED: Red indicates ON status of the satellite
- (12) SPEAKER OUTPUT: Speakon to satellite 1+POSITIVE/1-NEGATIVE