Studiomaster
since 1976

PLATFORM

PLATFORM portable active speaker system

User Guide

Unique portable and compact high performance design

Suitable for multi-purpose application such as compact installation and portable PA for the rental / pro AV market

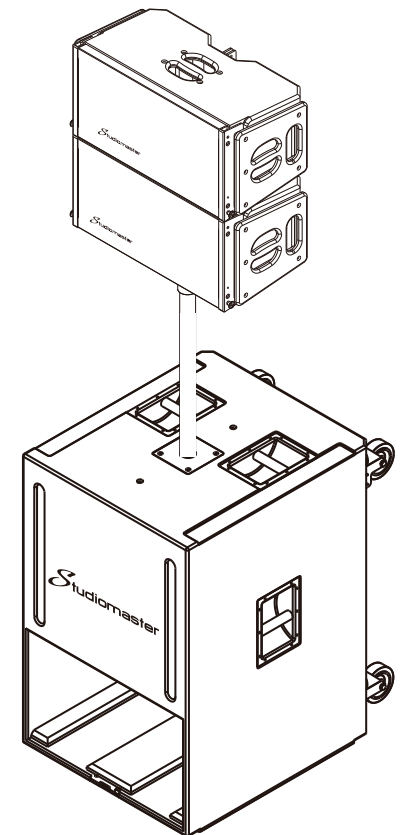Active 4 channel 2400W ClassD power amplifier module with high SPL levels

Integrated 2 input 4 output DSP module

Simple operation, pliug and play set-up, be up and running in minutes

Weather resistant design, for use in most conditions, indoor or outdoor

Unique packing ability for safe, compact and simple storage and transport

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CATALOGUE

IMPORTANT SAFETY SYMBOLS

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over

The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.

The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.

Protective grounding terminal

~ Alternating current/voltage

Hazardous live terminal

ON: Denotes the apparatus is turned on

OFF: Denotes the apparatus is turned off.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the operator.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

• **Read these instructions.**

• **Keep these instructions.**

• **Heed all warning.**

• **Follow all instructions.**

• **Water & Moisture**
The apparatus should be protected from moisture and rain, can not used near water, for example: near bathtub, kitchen sink or a swimming pool, etc.

• **Heat**
The apparatus should be located away from the heat source such as radiators, stoves or other appliances that produce heat.

• **Ventilation**
Do not block areas of ventilation opening. Failure to do could result in fire. Always install accordance with the manufacturer's instructions.

• **Object and Liquid Entry**
Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

• **Power Cord and Plug**
Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, refer to electrician for replacement.

• **Power Supply**
The apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• **Fuse**
To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

• **Electrical Connection**
Improper electrical wiring may invalidate the product warranty.

• **Cleaning**
Clean only with a dry cloth. Do not use any solvents such as benzol or alcohol.

• **Servicing**
Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only.

• Only use accessories/attachments or parts recommended by the manufacturer.

• **Warning**
Please remember the high sound pressure do not only temporarily damage your sense of hearing, but can also cause permanent damage. Be careful to select a suitable volume.

INTRODUCTION

The Studiomaster Platform, is a portable, flexible active speaker system, incorporating all the requirements a modern system requires for the demaning PA installation and rental markets, along with professional and expandable PA capabilities.

The unique design of the Platform system, with high SPL levels and 2400W of built-in high efficiency amplification, along with the programmable (PC software included) 2 input , 4 output DSP, gives you the ability to program and expland your system to your exact require-ment.

With the unique portability with the Platform, along with the weather resistant design, the Platform can be quickly set-up and dismantled in minutes, minimising risk of damage, and allowing increasing the overall efficiency of the system.

The Platform features unique expandability to either operate as a standalone system, or with the Line Array mounting ability and active or passive operation can very easily expand or become part of another system.

We are confident you will find the operation and set-up of the Platform very simple, but please read this manual to familiarise yourself with all the specifations of the system, and let the Platform do the work for you.

Stack mode   Support mode   Line array mode
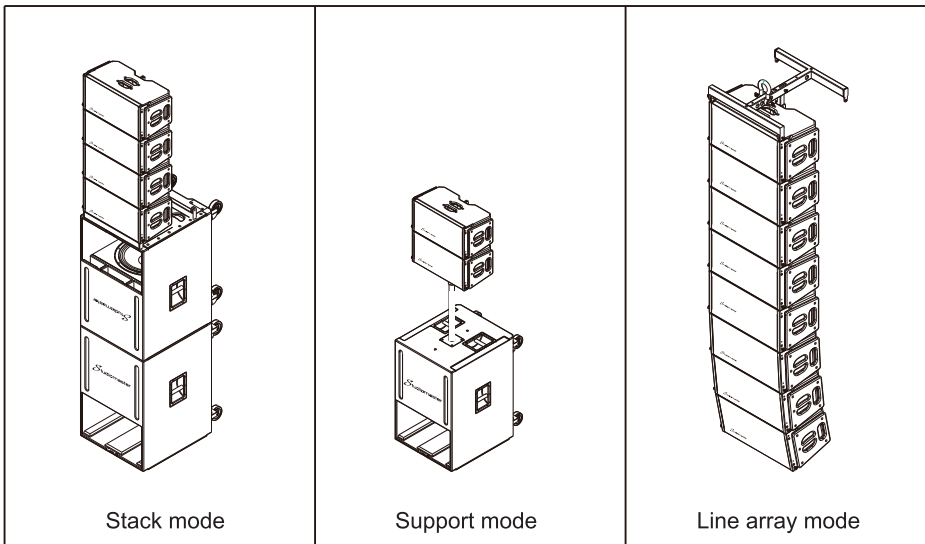
SPECIFICATIONS

PLATFORM10

Type... Long range horn output
Component...10"+3"+ Horn
ImpedanceC..Hi 16Ω/MID 16Ω
Average Power.. 350W
Peak Power.. 700W
Frequency Response... 55Hz−19KHz
Sensitivity(1W/1M)..102dB
Max. SPL..128dB
Dispersion... 120° H × 10° V
Throat.. 1.5"(28mm)
Voice Coil..3"(75mm)
Crossover..1.5KHz
N.W. / G.W... 21/23
Dimension HWD(mm).. 578 × 305 × 278
Package Size... 643 × 370 × 348(0.08CBM)

FEATURES

❶ Designed with ergonomic handles
❷ High efficiency constantly directive horn(90°H x10°V)
❸ Convenient Aluminum suspension system
❹ Line array mode: 0°, 3°, 6°, 9° adjustable
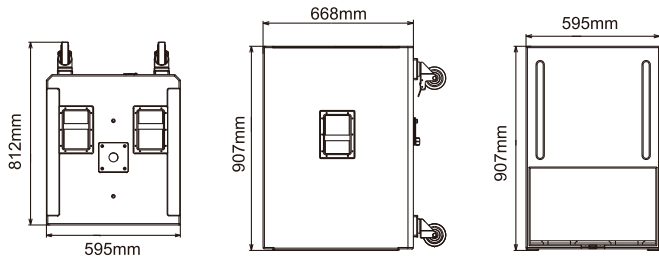❺ Stack mode: 0°, 3°, 6° adjustable Solid, durable alloyed tube holder

DIMENSION

587 mm
305 nm
587 mm
278 mm
305 mm
278 mm
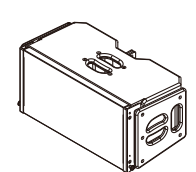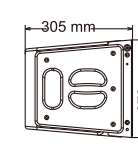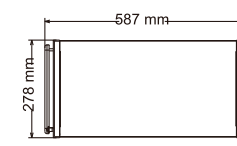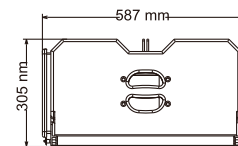
SPECIFICATIONS

Type... Active subwoofer system
Component...18" x 1pcs NdFeB unit
Impedance.. 8 Ω
Average Power.. 700W
Peak Power...1400W
Frequency Response...35Hz–130Hz
Sensitivity(1W/1M)... 104dB
Max. SPL...133dB
Amplifier Output..600W x 4pcs digital amplifier
Power.. Advanced switching power supply
Processor.. 24bit 2 in 4 out DSP
Dispersion.. N/A
Dimension HWD(mm).. 907 × 595 × 812
Package Size... 972 × 660 × 850(0.622CBM)
G.W.(kg).. 130
(1pcs K181A and 2pcs K103 included)

DIMENSION

668mm
595mm
812mm
907mm
907mm
595mm

ACCESSORIES

Standard Accessories

1#	2#	3#
Professional power cable	4-core speaker cable(short)	4-core speaker cable(long)
4#	5#	6#
USB adapter	Telescopic tube	

Optional Accessories

1#	2#	3#
K181A protection cover	Bracket	1 ton chain hoist
4#	5#	6#
2 meters manual lifter	Waterproof cloth	Flight case

PLACEMENT OF FULL RANGE SPEAKERS

symmetric placement

Placement of full range speakers:

1.Subwoofer cabinet can hold 2pcs full range speakers.

2.Try to place 2pcs full range speakers vertically one by one into subwoofer cabinet(see Fig.①).

3.2pcs full range speakers are now placed vertically and symmetrically into subwoofer cabinet(see Fig.①).

Note:

Make sure you push it horizontally to move, in case of any danger.
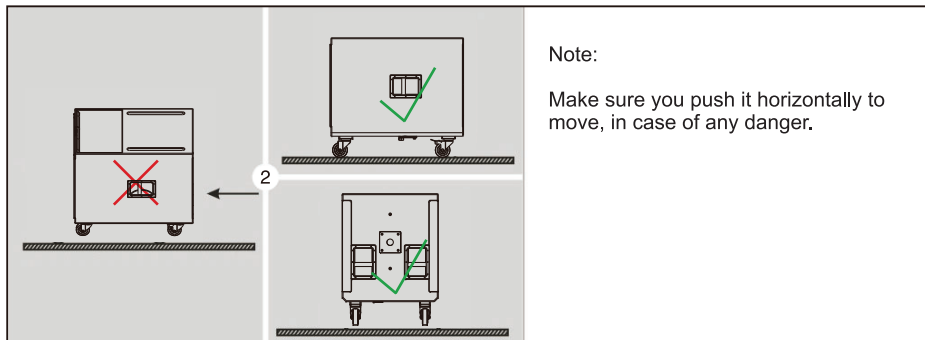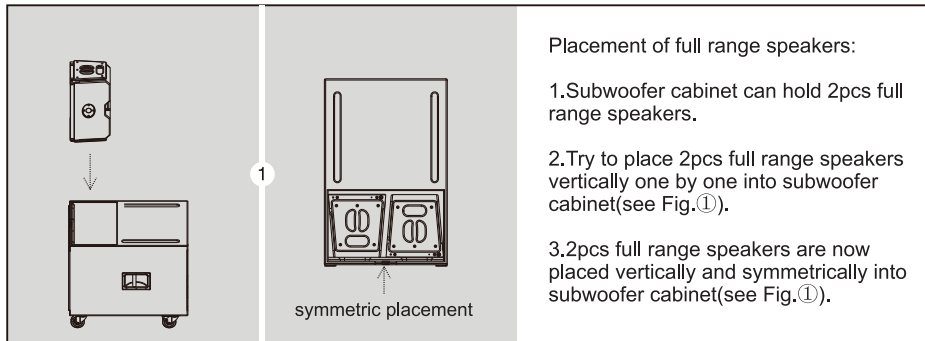
INSTALLATION OF SUPPORT MODE
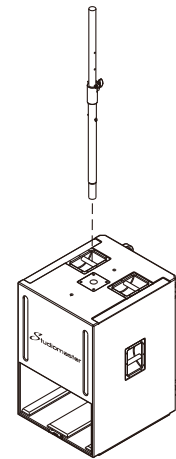
① Lay subwoofer flat, insert telescopic tube into the tube holder of PLATFORM 18SA, then adjust the height of tube as you like. (see Fig. zc-1)

② Life either one of 2pcs PLATFORM 10, align and fix it to the tube. (see Fig. zc-2)

③ Extrude the front adapting piece of the first PLATFORM 10, lift the second PLATFORM 10, align and fix it to the first PLATFORM 10, then press the safety pin; next, turn and insert the rear adapting piece of the first PLATFORM 10 into the rear slot of the second PLATFORM 10, adjust the angle as you like, press the safety pin. (see Fig. zc-3)

see Fig. zc-1

see Fig. zc-2   see Fig. zc-3   see Fig. zc-4
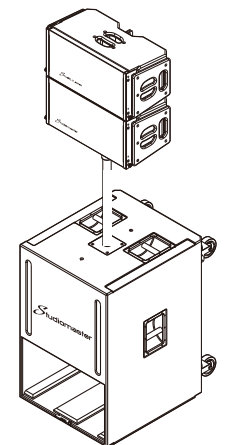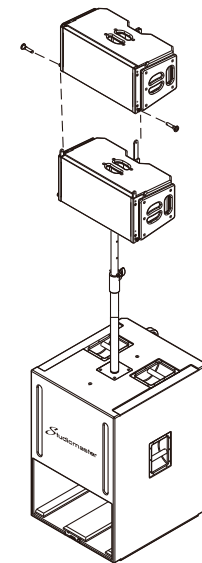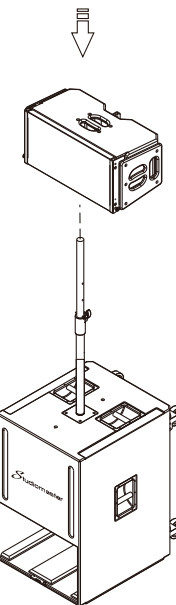
INSTALLATION OF STACK MODE

① Stack 2pcs PLATFORM 18SA together, then install the bracket on the top, align and lock screws tight. (see Fig. dd-1)

② Lift either one of 2pcs PLATFORM 10, align its front slot to the bracket and press the safety pin; next, turn and insert the rear adapting piece of bracket into the rear slot of PLATFORM 10, adjust the angle as you like, press the safety pin. (see Fig. dd-2)

③ Extrude the front adapting piece of the first PLATFORM 10 vertically upward, lift the second PLATFORM 10, align its front slot with the front adapting piece of the first PLATFORM 10, press the safety pin on both sides, then turn and insert the rear adapting piece of the first PLATFORM 10 into the rear slot of the second PLATFORM 10, adjust the angle as you like, press the safety pin.(if more than 2pcs PLATFORM 10, repeat the same step until the whole system is competed installation.) (see Fig. dd-3)
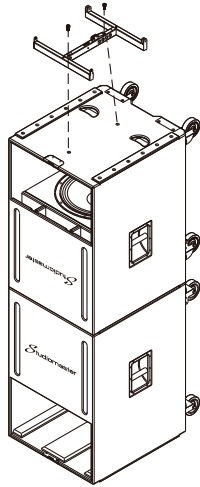
(see Fig. dd-1)
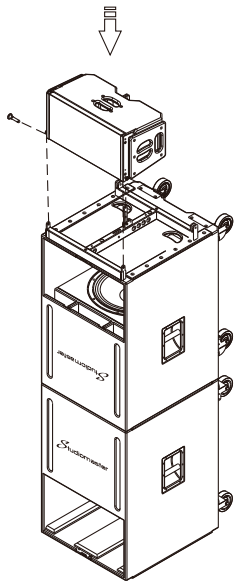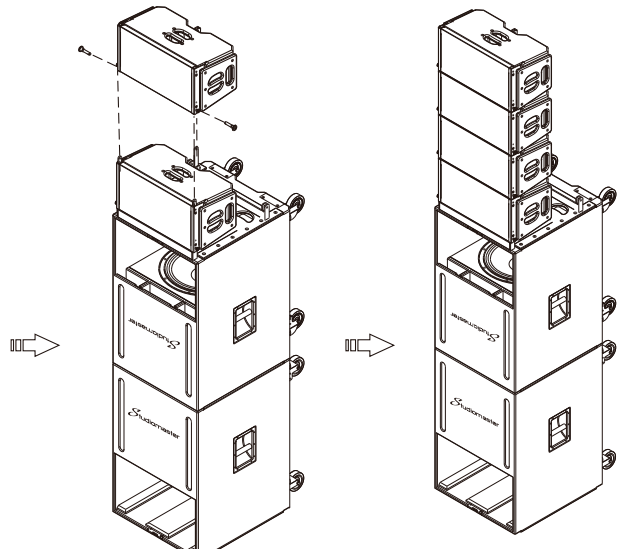
(see Fig. dd-2)   (see Fig. dd-3)   Installation completed

INSTALLATION OF LINE ARRAY MODE

① Extrude the front adapting piece of PLATFORM 10, align it with the bracket, then press the safety pin; next, extrude the rear adapting piece of PLATFORM 10 and insert it into the slot of bracket, press the safety pin. (see Fig. xz-1)

② To install the second PLATFORM 10: extrude the front adapting piece of the second PLATFORM 10 and insert it into the front slot of the first PLATFORM 10, press the safety pin; next, turn and insert the rear adapting piece of the second PLATFORM 10 into the rear slot of the first PLATFORM 10, press the safety pin.(if more than 2pcs PLATFORM 10, repeat the same step; when a certain number of PLATFORM 10 are installed and total weight is considerable, you can first suspend them by chain hoist or wire rope and lift them to exactly the height of 1pcs cabinet high above the ground, then you can continue to add the rest of PLATFORM 10.) (see Fig. xz-2)
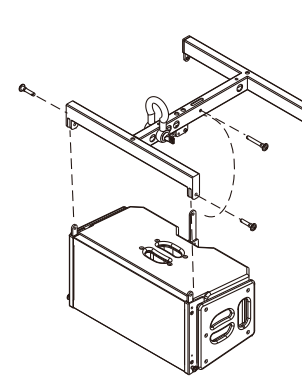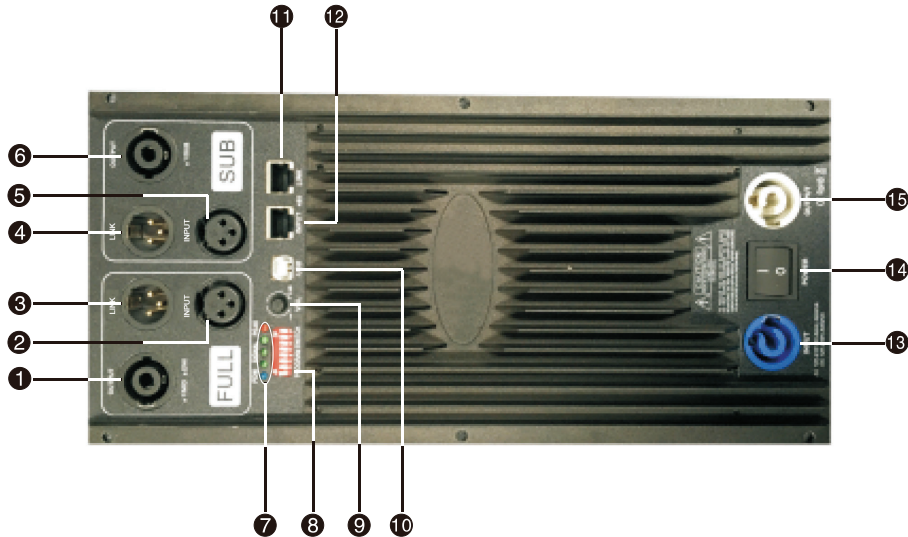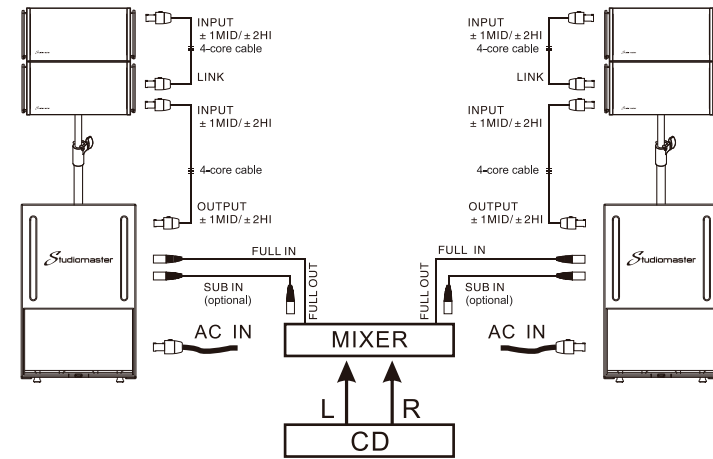
see Fig. xz-1
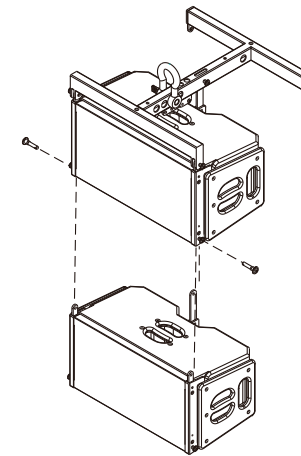
see Fig. xz-2
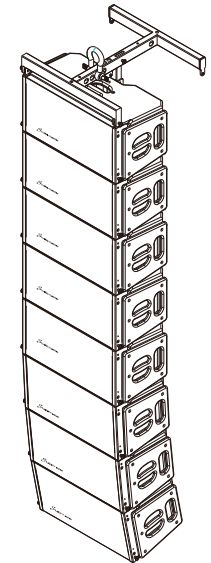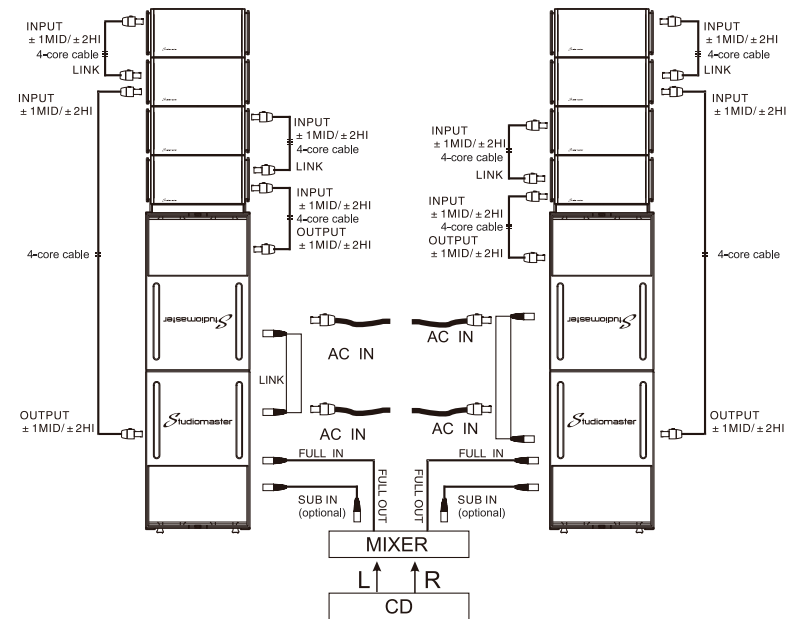
Installation completed

FUNCTIONS OF DIGITAL AMPLIFIER

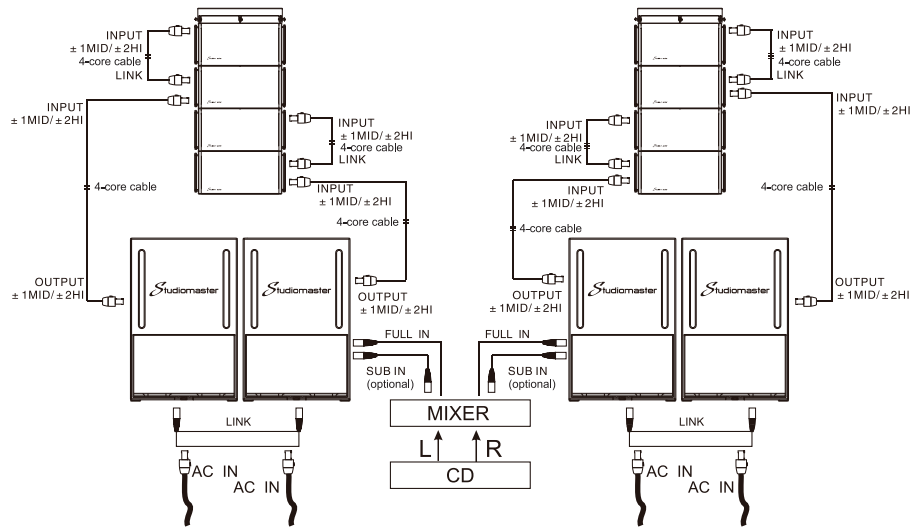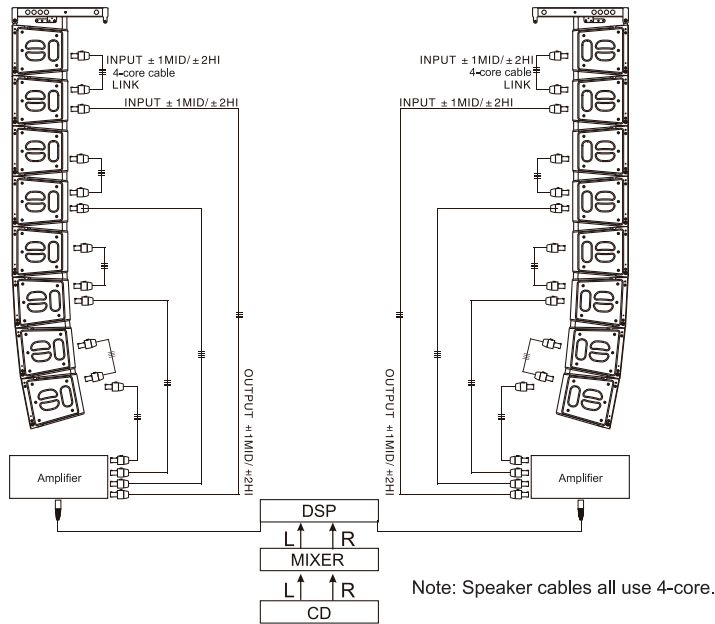|		
❶ MID HI OUT	❻ SUB OUT	⓫ RS-485 cable adapter
❷ MID HI IN	❼ Signal indicator	⓬ RS-485 cable input
❸ MID HI LINK	❽ Program switch	⓭ AC IN
❹ SUB LINK	❾ Level control	⓮ Power switch
❺ SUB IN	❿ USB	⓯ AC OUT

WIRING 1(MONO, SUPPORT MODE)

WIRING 2(MONO, STACK MODE)

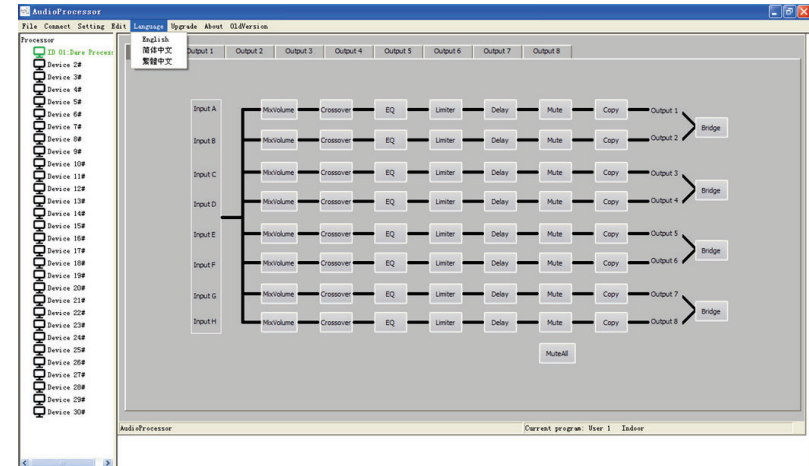## WIRING 3(LINE ARRAY MODE A)

WIRING 4(LINE ARRAY MODE B)

Note: Speaker cables all use 4-core.

USING THE SOFTWARE

Online Software Setup Instructions

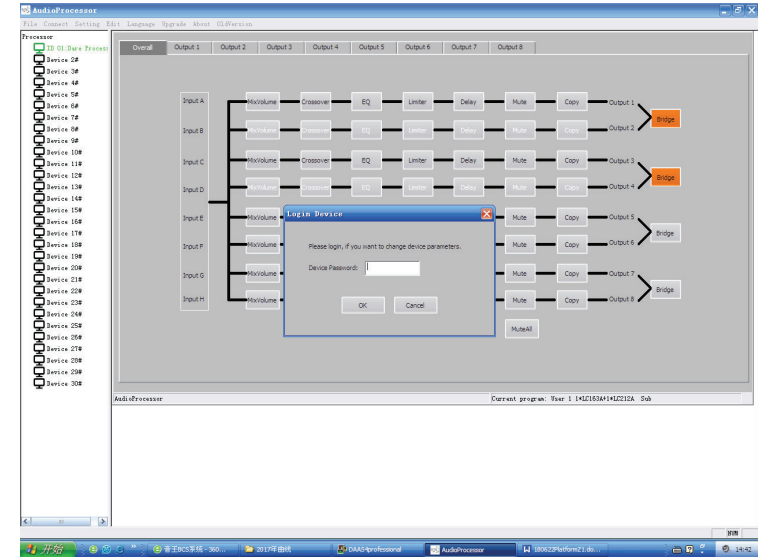1.Change The Display Language.

2.Select Online Mode：USB or RS-485.
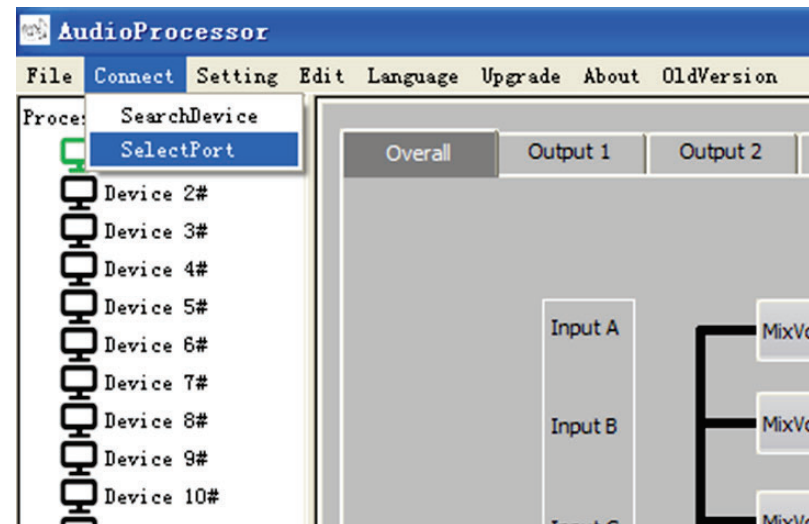
Online Software Setup Instructions

3.Online (under USB option directly choose the first option).
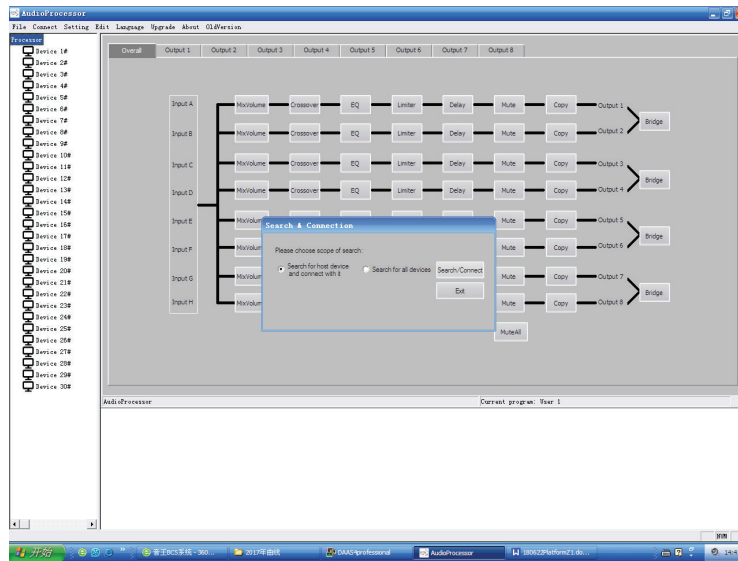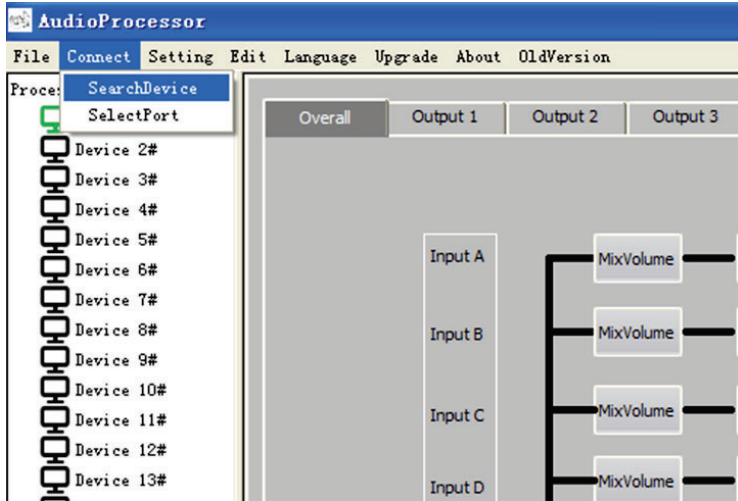
4.Need password, enter the full initial password: 111111, (total six 1 letter). After normal connection, the red light will turn green.
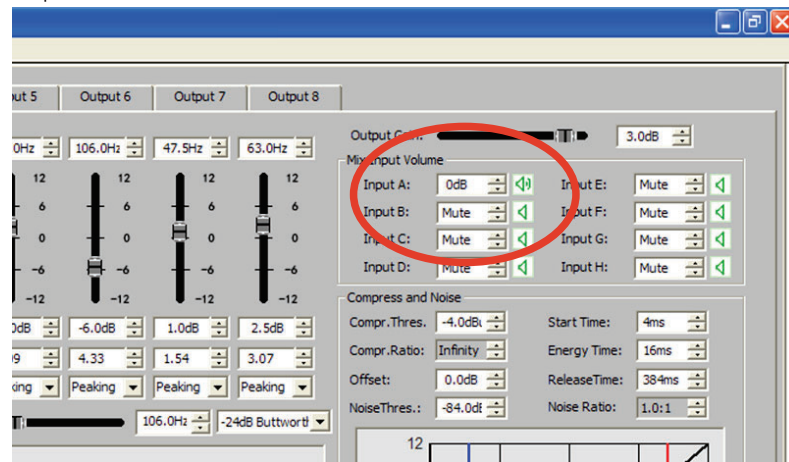
Online Software Setup Instructions

5. 1 and 2 channels for the subwoofer channel, to link subwoofer you need to press the "anti-linked" button to process the next step to adjust every time. 3 for Lark middle range channel, 4 for the high range channel.
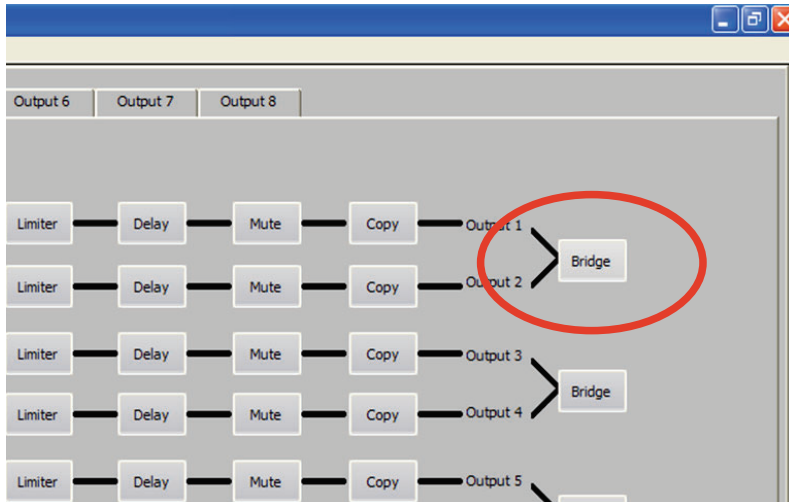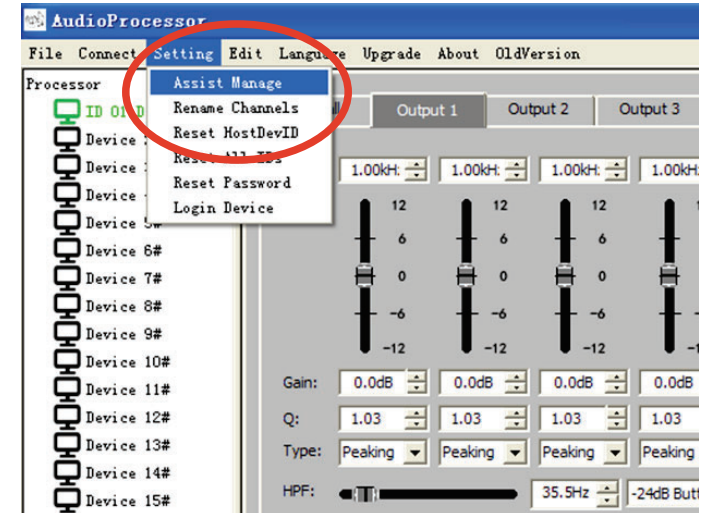

6.Set the bass input solely, you need to click into the bass channel, turn on B input gain to 0, and turn off the A input.
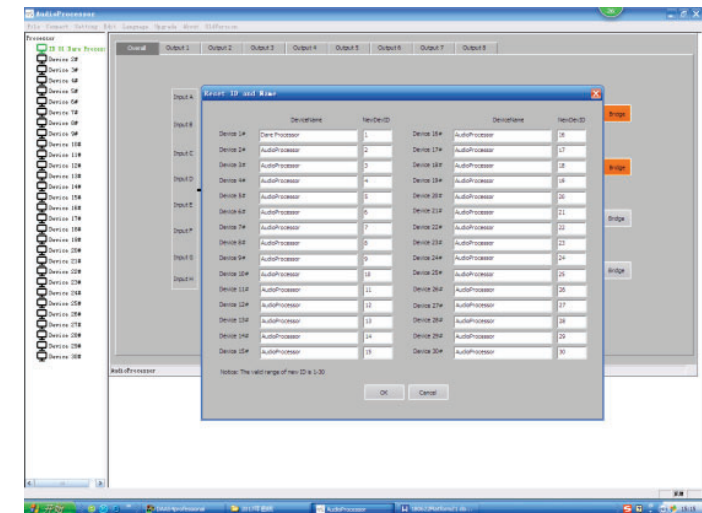
Online Software Setup Instructions

7.Change the ID number of the currently connected device.

8.Enter the ID number directly to set up and make sure that the ID number of each device is unique.

9.In order to facilitate the late identification of the device, the device name needs to be changed to the same name as the ID number. Such as L-1,L-2, L3, R-4, R5, R6. This allows you to quickly identify left and right channels and the corresponding modules that need to be debugged during commissioning.

Online Software Setup Instructions

10.When using the RS–485 connection and all devices are connected, all device names will display on the left side of the window, double–click the device name to enter the device's settings window. Encountered the same password: 111111.
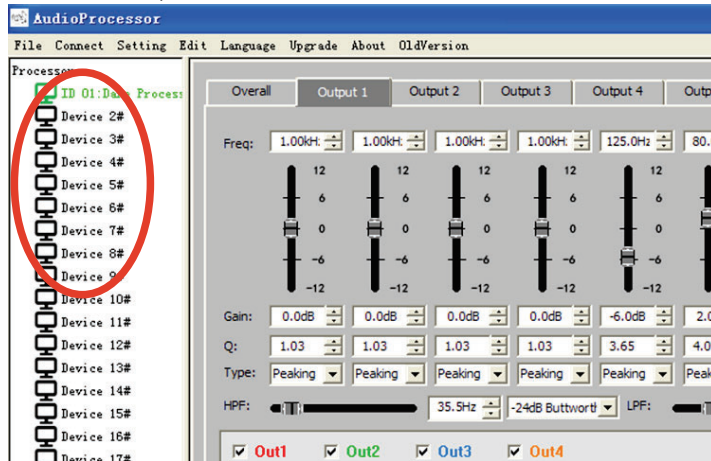
11.The order of the DIP switches corresponds to the order of the internal preset memories 1–8.
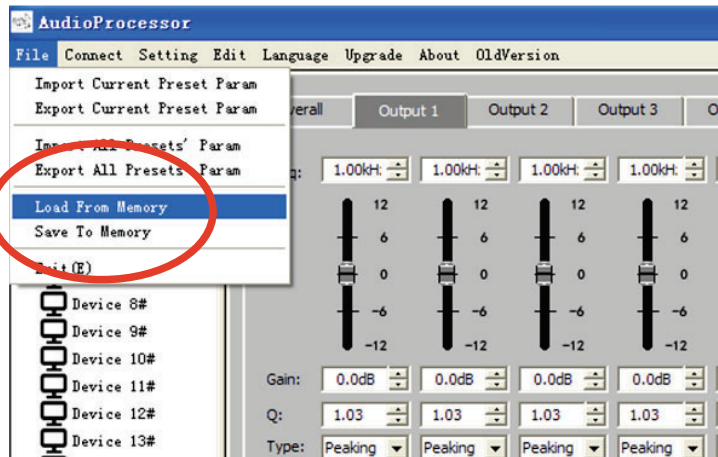
Online Software Setup Instructions
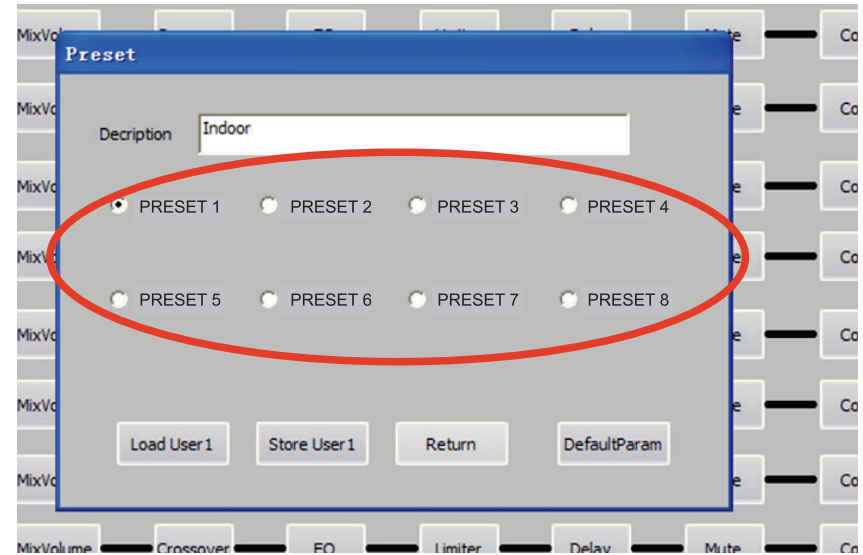
12.Preset 1–4 has data settings, 5–8 factory blank, can be written to user settings.

PRESET 1=Indoor operation
PRESET 2=Indoor operation - filtered HF/LF
PRESET 3=Outdoor operation
PRESET 4=Outdoor operation - filtered HF/LF
PRESET5-8=User program

13.If you use the 5–8 preset position after commissioning, the module's DIP switch needs to be dialed to the appropriate position. If the code is stuck in the "2", then each boot will call the previous factory settings.