JMM

J2 Expandable Series

Active Multifunctional Touring SOUND SYSTEM

Owner's Manual

- ORIGINATION AND UNIQUE
- 2 IN 4 OUT DSP CONTROLLER
- Built–in 3 way Hi–Fi Class D Amplifier Module
- Just plug and work,Professional and Convenient
- Multifunctional for kinds of Applications

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended toalert the user to the presence of important operation an maintenance (servicing) instruction in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTION

Please read following instruction before using:

1. Please read all the safety instruction before using the product.
2. This product must be earthed. If it should be malfuction or break down, grounding provides a path of least resistance for electric current to reduce risk of electric shock.
   This product is equipped with a cord having an equipment–grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and earthed in accordance with all local codes and ordinance.

   DANGER– Improper connection of the equipment–grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.
3. To reduce the risk of injury, close supervision is necessary when the product is used near children.
4. Do not use this product near water – for example, near a bathtub, washbowl, kitchen sink, in wet basement or near a swimming pool or the lake.
5. This product may be capa ble of producing sound levels that colud cause permanent hearing loss. Do not operate for a long period of time at high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
6. This product should be located so that its location or position does not interfere with its proper ventilation.
7. This product should be located away from heat sources such as radiators, heat registers or other products that produce heat.
8. The product should be connected to a power supply only of the type described on the operation instructions or as marked on the product.
9. This product may be equipped with a polarized line plug (one blade wider than the other). This is a safty feature. If you are unalble to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
10. The power–supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When unplugging the power–supply cord, do not pull on the cord, but grasp it by the plug.
11. Care should be taken so that objects do not fall and liquid are not spilled into the enclosure through opening.
12. The product should be serviced by qualified service personnel when:
    A.The power–supply cord or the plug has been damaged; or
    B. Objects have been fallen, or liquid has been spilled into the unit; or
    C. The product has been exposed to rain; or
    D. The product does not appear to operate normally or exhibits a marked change in performance; or
    E. The product has been dropped or the enclosure damaged.
13. Do not attempt to service the product beyond that described in the user–maintenance instructions; All other servicing should be referred to qualified service personnel.
14. WARNING – Do not place objects on the product's power cord or place it in a position where anyone could trip over, walk on or roll anything over it. Improper installations of this type create the possibility of fire hazard and/or personal injury.

SAVE THESE INSTRUCTIONS

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Introduction of J2

J2 SYSTEM is showed by engineers 2 years devotion to develop,combined with domestic and international market requirement, come out of this Orinination and Unique active multifunctional touring sound system!

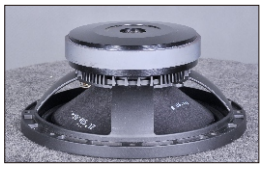
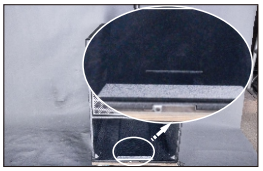
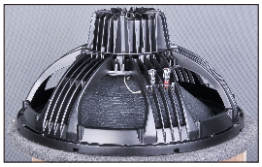
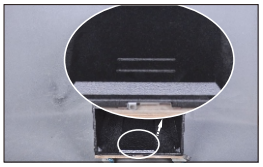
Therefore, this user manual is suitable for both J2 and J2+ systems.

The main differences between J2 and J2+ systems.

① H102+ is powered by Neodymium driver & woofer in J2+ system, but it is the normal ferrite driver & woofer in H102 in J2 system.

②DSP18A+ is powered by Neodymium woofer in J2+ system, but it is the normal ferrite driver & woofer in DSP18A in J2 system.

③There is one Horizontal bar symbol in the Stoma of DSP18A, but there are two Horizontal bar symbols in the Stoma of DSP18A+.

The main differences between T2 and T2+ systems.					
	J2	H102 Ferrite driver (Customer–made)	 H102 Ferrite driver (Customer–made)	DSP18A Ferrite driver (Customer–made)	 There is one Horizontal bar symbol in the Stoma of DSP18A.
	J2+	H102+ Neodymium driver . (Customer–made)	H102+ Neodymium driver . (Customer–made)	 DSP18A+ Neodymium driver . (Customer–made)	 There are two Horizontal bar symbols in the Stoma of DSP18A+.

How to set up for a J2 Active mobile system

MONO（STACK）MODE A

MONO（SUPPORT）MODE

MONO（STACK）MODE B

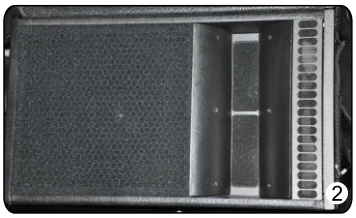
LINE ARRAY MODE

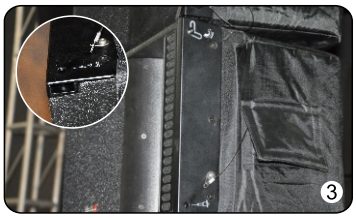
H102 TECHNICAL SPECIFICATION

Type..... Horn Loaded Mid–Hi
Component..... 10"+2" × 2+ Horn

Nominal Impedance..... 8 Ω
RMS Power Handling.....350W
Peak Power Handling..... 700W
Frequency Response.....55Hz–19KHz
Sensitivity(1W/1M)..... H102/102dB;H102+/103dB
Max. SPL..... 130dB
Dispersions.....120° H × 10° V
Horn throat size..... 1"(25mm)
Voice coil size..... 2"(44mm)
Crossover.....1.5KHz
Dimension HWD(mm)..... 314 × 540 × 314
Shipping HWD(mm).....380 × 610 × 390(0.09CBM)
NW/GW(Kg).....H102(21/22.7);H102+(17/18.7)

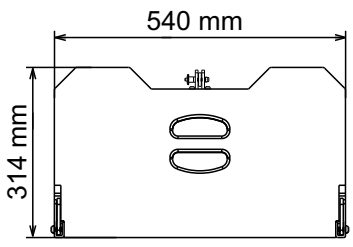
H102 FEATURES

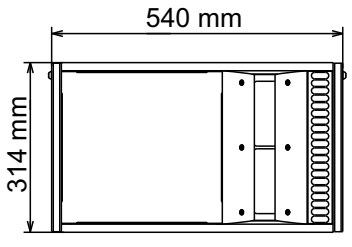


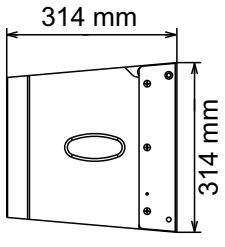


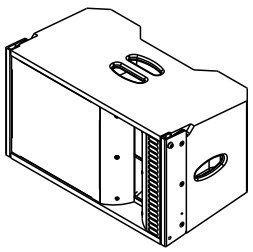
1. Ergonomic Handle
2. Efficient Directional Horn (120° Hx10° V)
3. Easy Aluminum Hanging Slot
4. Elevation–adjustable Hanging Facilities (0°、3°、5°、8°)
5. Strong and Durable Stand Holder

H102 TECH DRAWING









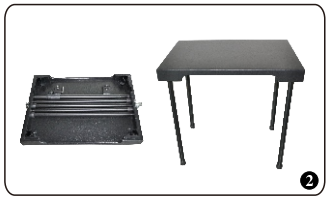
DSP18A TECHNICAL SPECIFICATION

Type..... Active Sub Woofer
Component.....18" × 1

Nominal Impedance.....8Ω
RMS Power Handling.....600W
Peak Power Handling.....1200W
Frequency Response.....40Hz–250Hz
Sensitivity(1W/1M).....DSP18A/104dB;DSP18A+/105dB
Max. SPL.....131dB
Output..... 1 × 600W+2 × 450W Digital Power Amp
Power supply.....High quality Switching power supply
Processor..... 32BIT, 2 In 4 Out DSP Module
Dispersions.....N/A
Dimension HWD(mm).....850 × 594 × 684
Shipping HWD(mm)..... 970 × 690 × 930(0.622CBM)
NW(Kg).....DSP18A/73.5;DSP18A+/70
GW(Kg).....DSP18A/132;DSP18A+/120
(Including 2pcs AP102 + 1pc AP118)

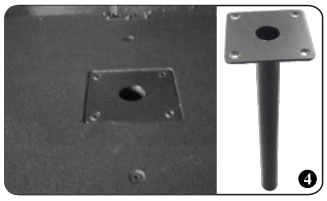
DSP18A FEATURES

❶ Lockable Wheel, design for the mobile show.

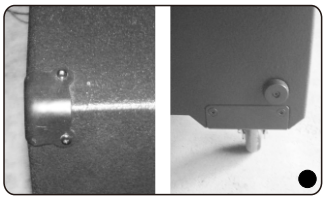


❷ Multifunctional cover, expansionof DJ table, convenient disassembly and assembly, less occupied space, convenient carrying and high utility.

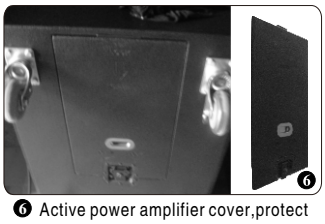
❸ Unique Storing and Transport Mode, can store 2 pcs H102 inside.



❹ Long hard Alloy Stand Holder.

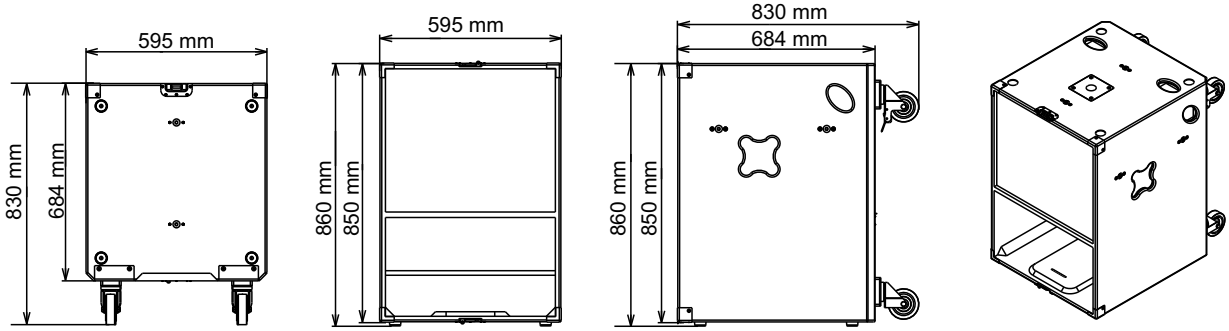


❺ Aluminum Alloy Anticollision corner, protect the loudspeakerwhile transporting.



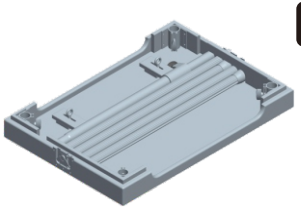
❻ Active power amplifier cover,protect amplifier with nice look.

DSP18A TECH DRAWING



Parts list

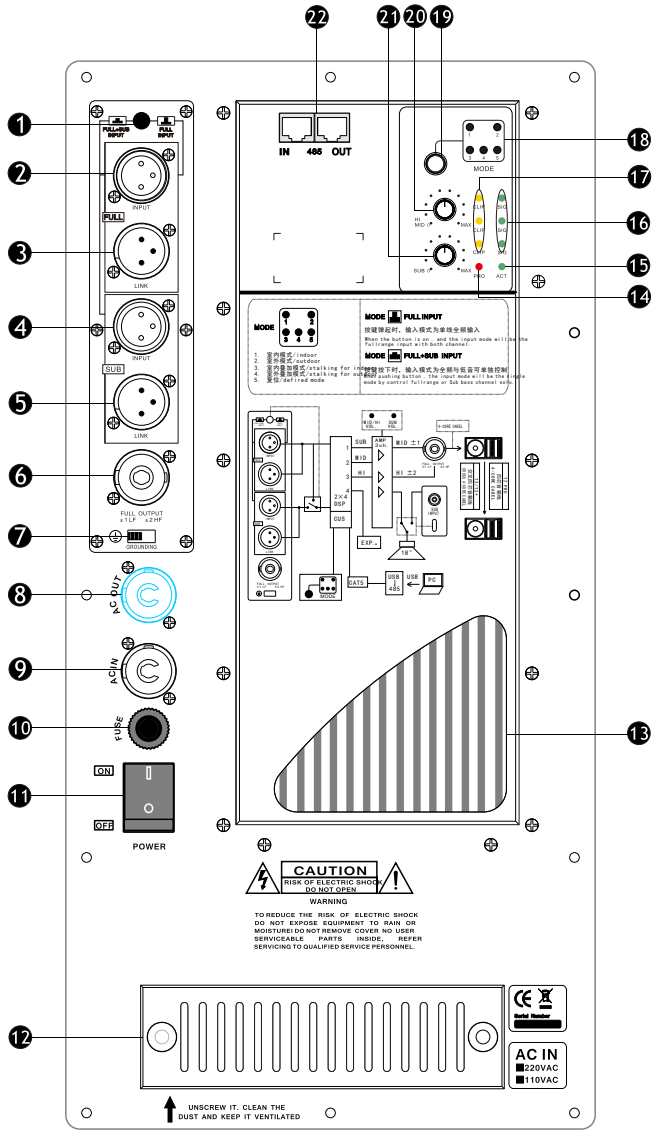
Standard Accessories

1# Power Cord for DSP18A	2# 4–Core Speaker Cable(Short)	3# 4–Core Speaker Cable(Long)
4# RS485–USB cable	5# Adjustable Tripod (use in mono support mode)	6#  Easy install and uninstallportable DJ table and cover.

Optional Accessories

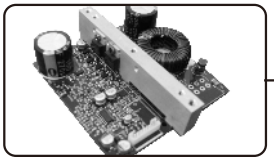
1# DSP18 loudspeaker protect cover	2# T model trapeze (for option)	3# 1 Ton hoist
4# Handle lifting rod	5# power plug cable	6# All weather rain cover

DSP18A Amplifier Funtions

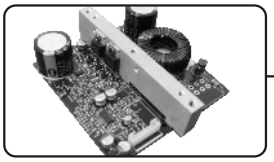


1. SUB Input mode Convertor
2. FULL Input
3. FULL Link
4. SUB Input
5. SUB Link
6. FULL Output(±1MID； ±2HI)
7. Switch for input sigal connection with earth zero connection way
8. AC Power output Socket
9. AC Power input Socket
10. Fuse
11. Power on/off
12. Air inlet
13. Air outlet
14. Protection Indicator
15. AC Power Indicator
16. Signal Indicator
17. LED for Peak Value
18. Mode Indicator
19. Mode selction knob
20. Full Volume Control
21. Sub Volume Control
22. USB/485 Terminal

Hi-Fi Class D Amplifier Module and high quality switching power Module



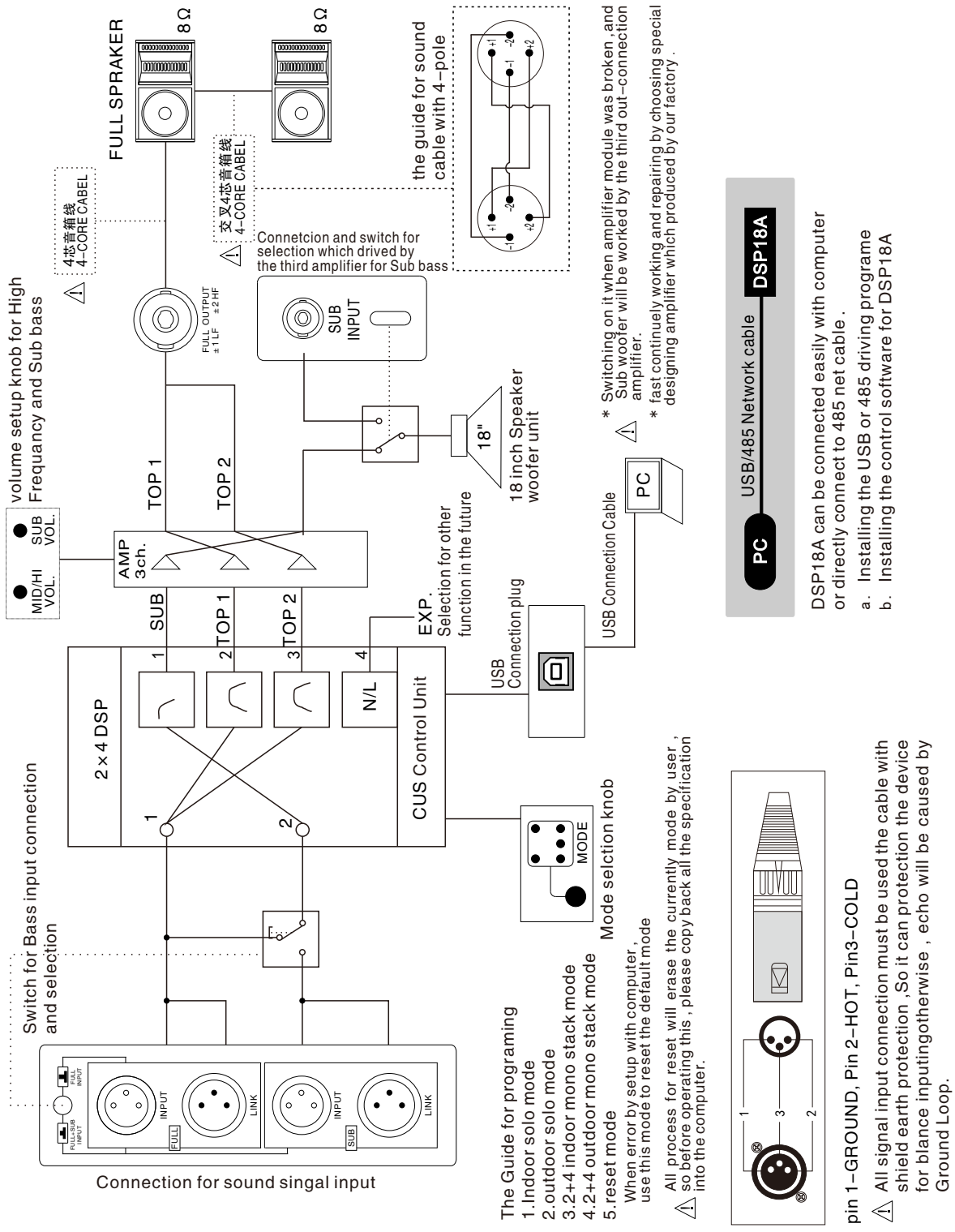
Digital Module
(450W)



Digital Module
(450W)

Switching power + Digital module (600W)

Drawing for internal structure view and cable connection



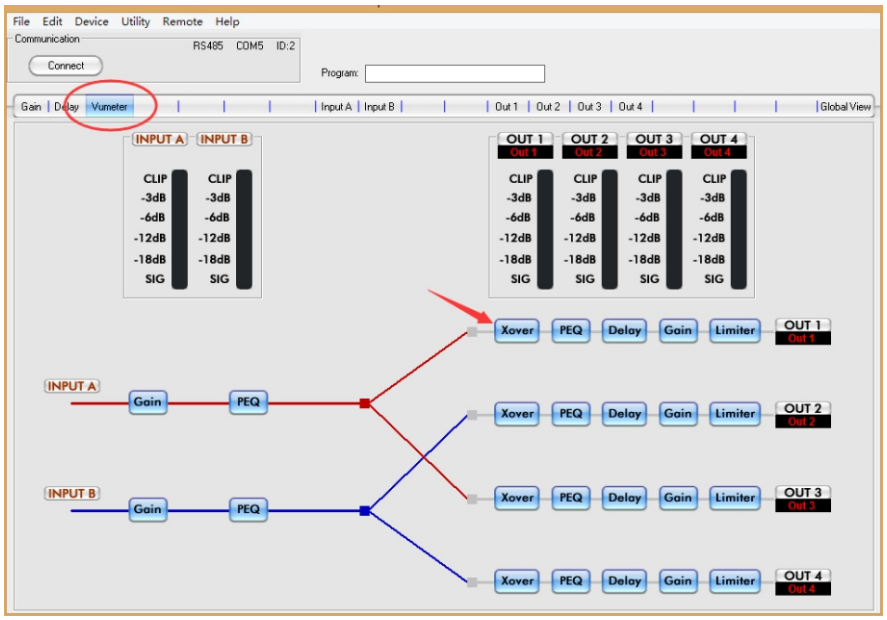
How to control DSP18A by your computer

1.Open the software and select the language , the default mode is ENGLISH .
Language seletive operation: Utilty–>Language–>ENGLISH。

2. Select 2 IN 4 OUT in the Device option, this is suit for J2 system.

3. Use USB connection cable to build up the connection bewteen computer and J2 system and make sure the full instalation of J2 control software and driving programein the computer. Switch on the J2 power ,and check the "device"of J2 software and check the "com" and make sure the right cable connection between computer and device and check the com plug model and remember it , open the J2 software and select the USB option in the "communication management" and click "connect" and wait for some mins the connection between computer and J2 will be finished.

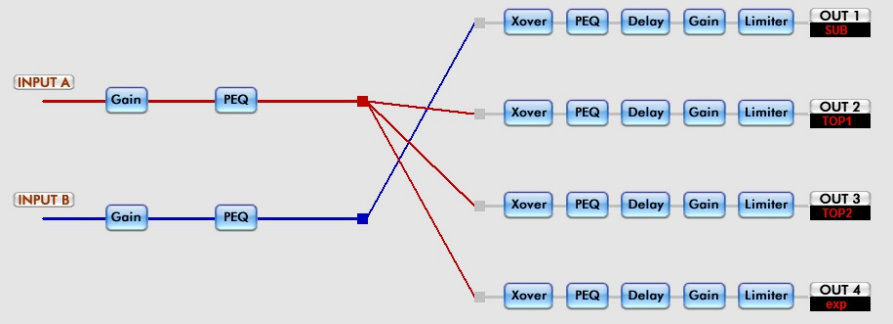
4. Enter "flow chart" here shows all the signal flow at current if you want to make setting ,Just enter the interface shows ;And you can shift the tags and finish it .



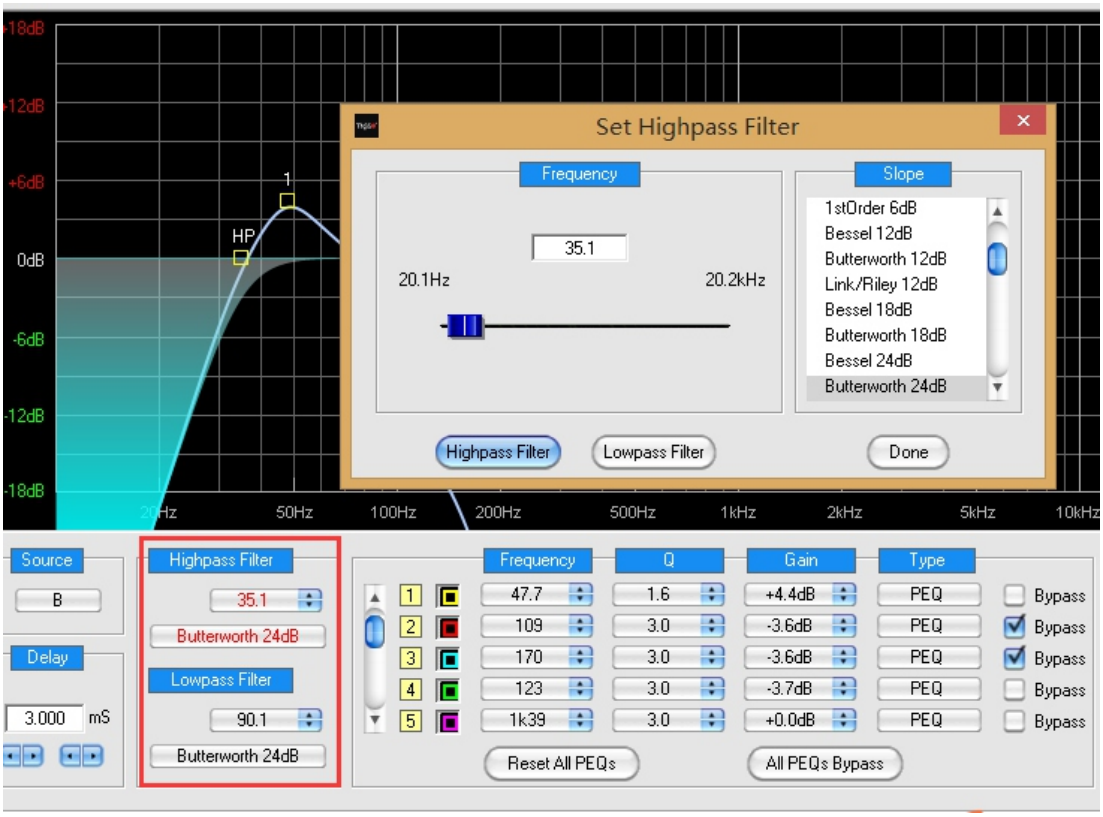
How to control DSP18A by your computer

5. Controlled parameter

① Channel selection : Default mode input 1 is Sub bass , input 2 ,Low–mid range for Full frequancy input 3 : Low range for High frequancy , Input 4: not setup.

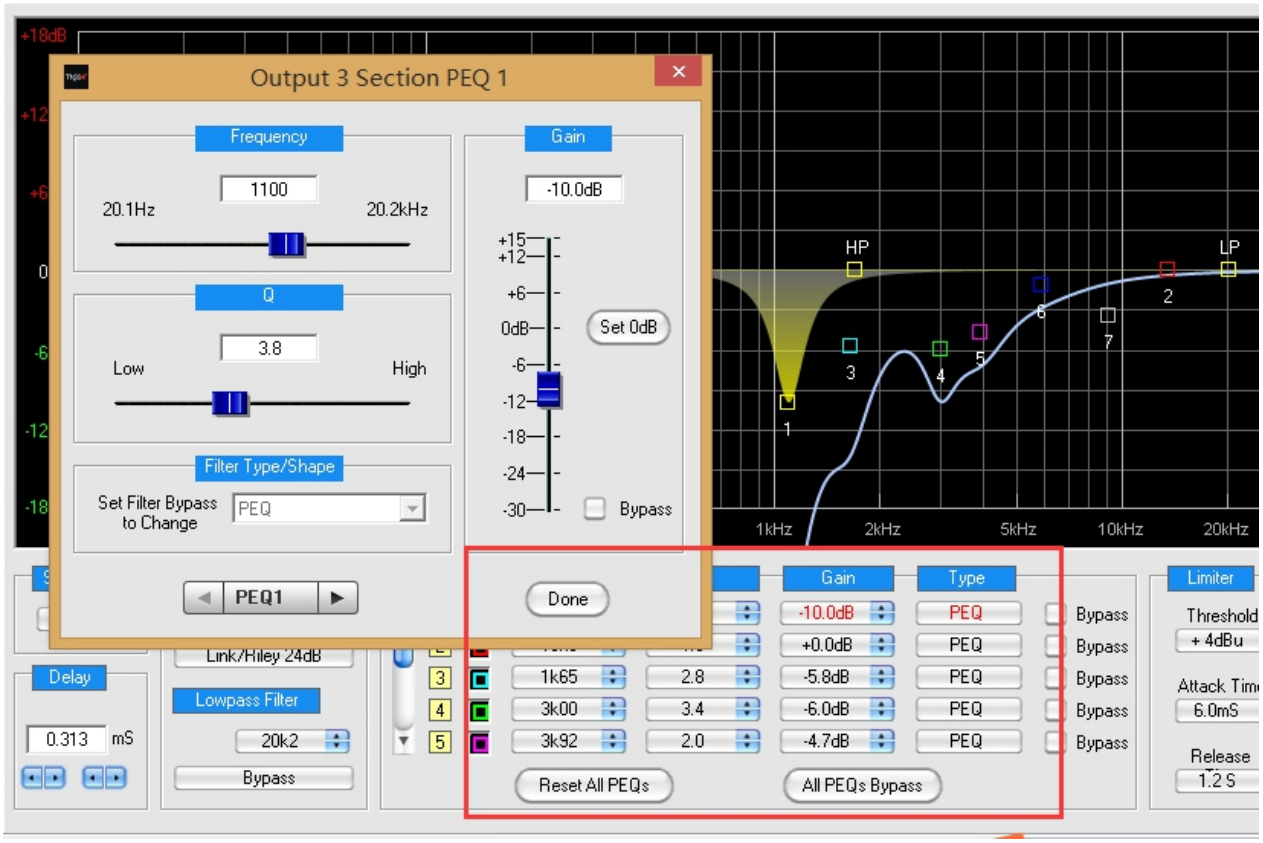


② Make sure the X–over parameter and the working signal range of this input channel , Doubleclick the parameter for High frequancy channel or Bass frequancy channel and edit it by using Ordinate Menu , the frequancy of cross–over point is 1/36 times ,Max frequancy can bereach 48Db (if the frequancy is more bigger and the transition zone of cross–over point will be more steep .



How to control DSP18A by your computer

③ Optimize loudspeaker frequency response curve,After finish setting X–over and parameter (make sure the working signal range of this ourput channel) Use output channel'PEQ ,User can double click and enter into the parameter setting Menu ,and you can adjust by EQ'S active cursor on the frequency content , Active the cursor , need to click the correspondingcolorful button,And click right key on the frequenc content ,It will show as ordinate menu.

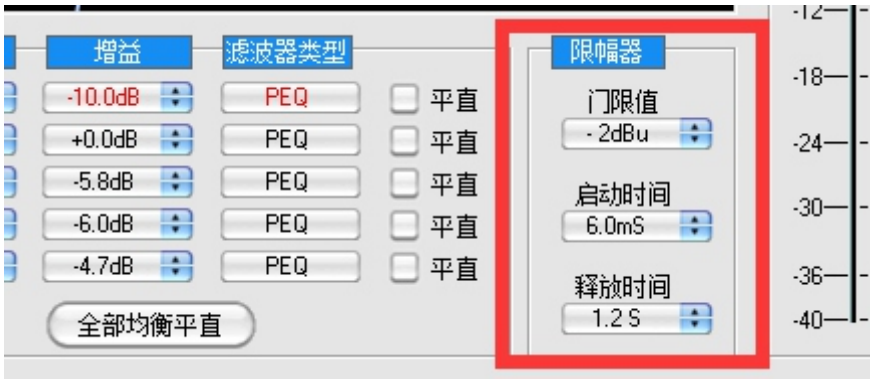


How to control DSP18A by your computer

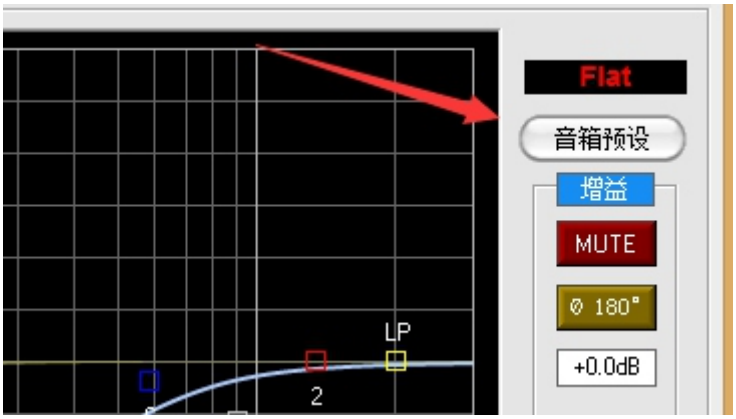
④ setup the distance of all speaker cabinets , and erase the time error of the system by adjusting the parameter of relay for each channel and make sure the Synchronous output for each channels of all cabinets.

Coarse tuning and Fine tuning parameters

⑤ Setup up the max output value of each channel and make sure all singal output value which can not over the permited value of each channel.

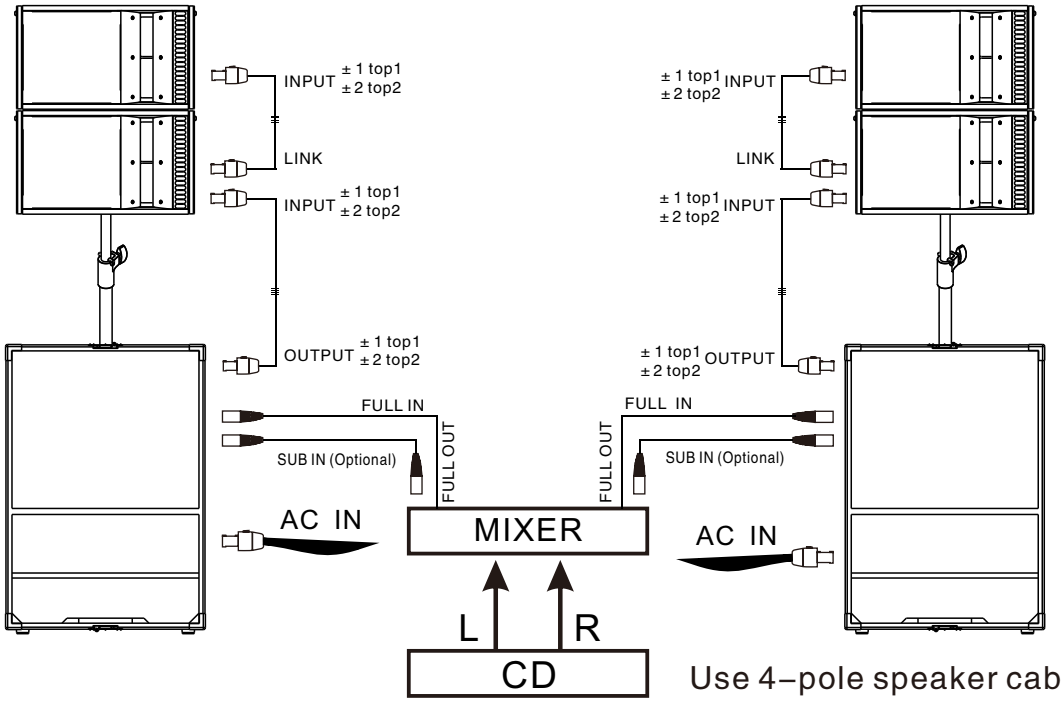


⑥ select and save the parameter of each output channel,Click the interface of any channels and select the "setting " and select "save" in any interface , and all parameter of channels can be saved and selected.



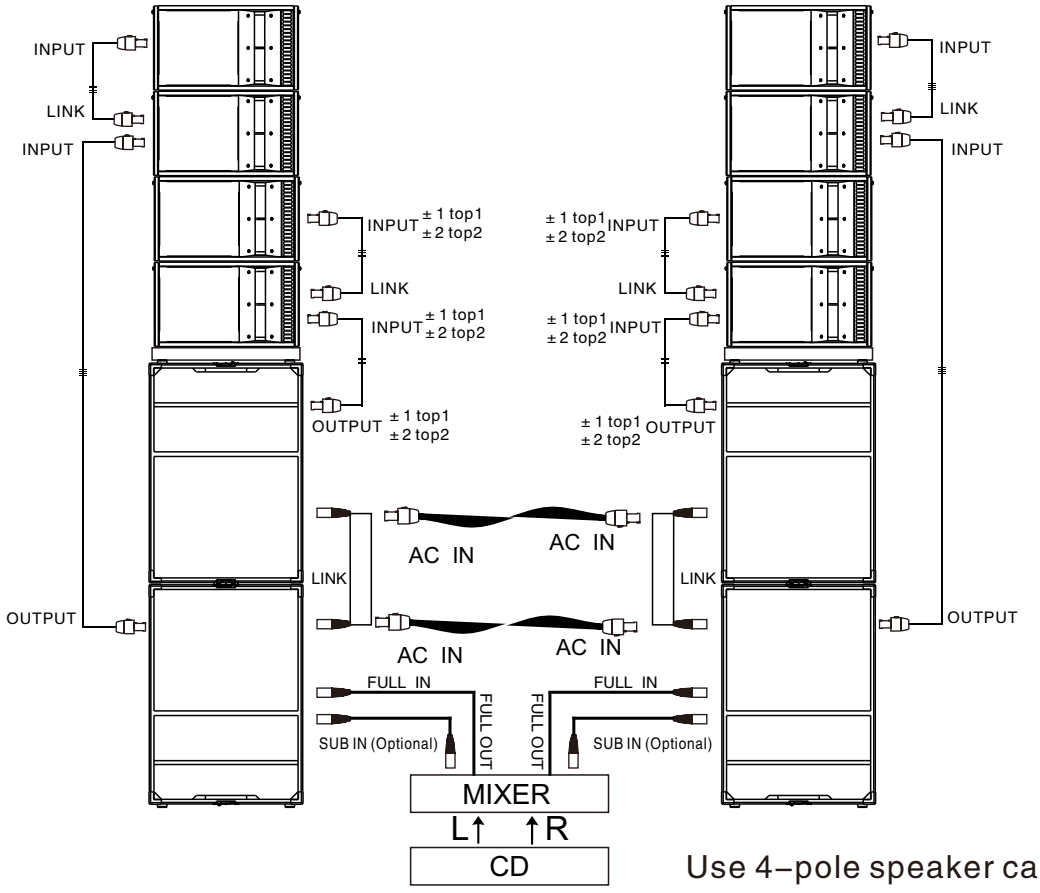
⑦ All saved and selected parameter will be save in the computer {check the programe management) and it can be selected in any time when using.

Loudspeaker connection 1 (MONO SUPPORT MODE)



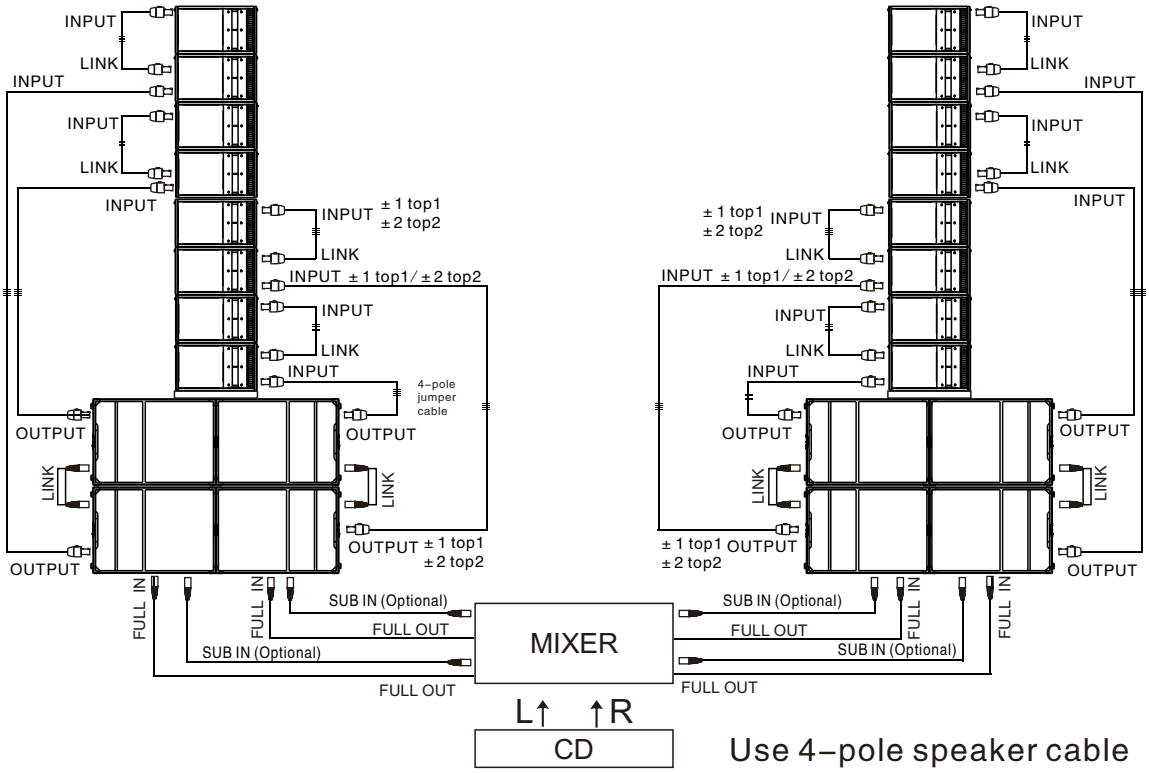
Use 4–pole speaker cable

Loudspeaker connection 2 (MONO STACK MODE)



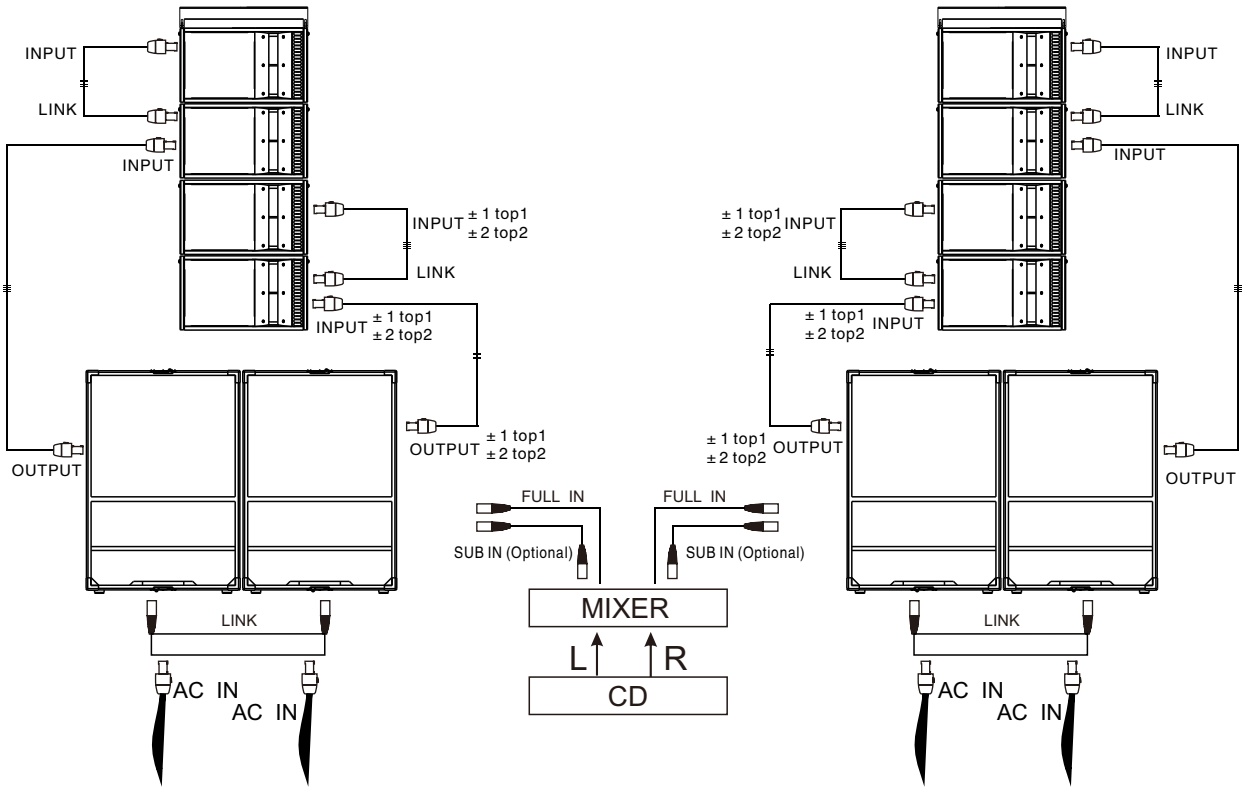
Use 4–pole speaker cable

Loudspeaker connection 3 (LINE ARRAY STACK MODE)



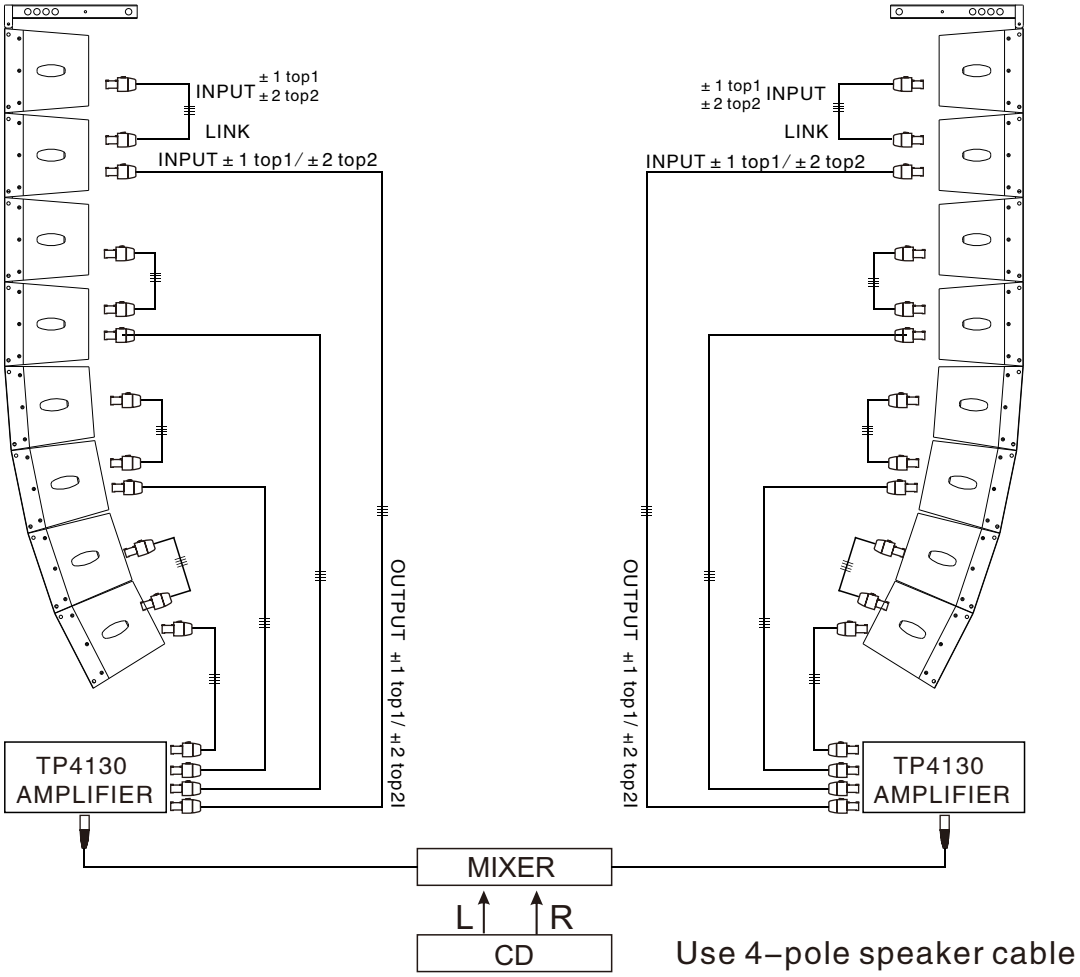
Use 4-pole speaker cable

Loudspeaker connection 4 (LINE ARRAY MODE A)



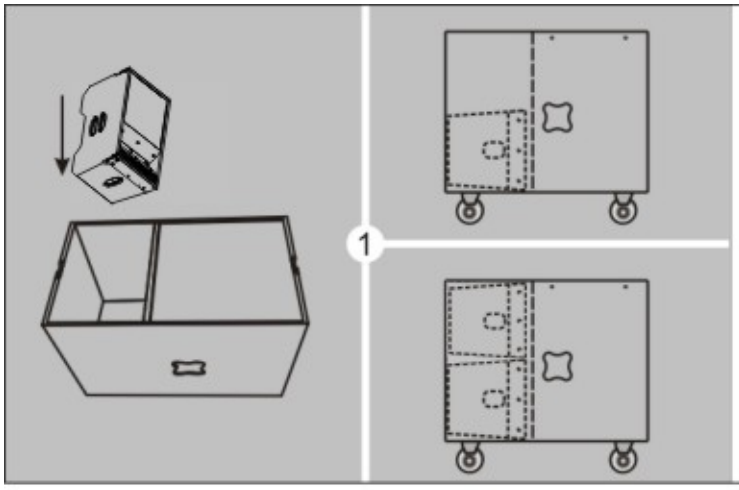
Use 4-pole speaker cable

Loudspeaker connection 4 (LINE ARRAY MODE B)



Use 4–pole speaker cable

Accessory Manual

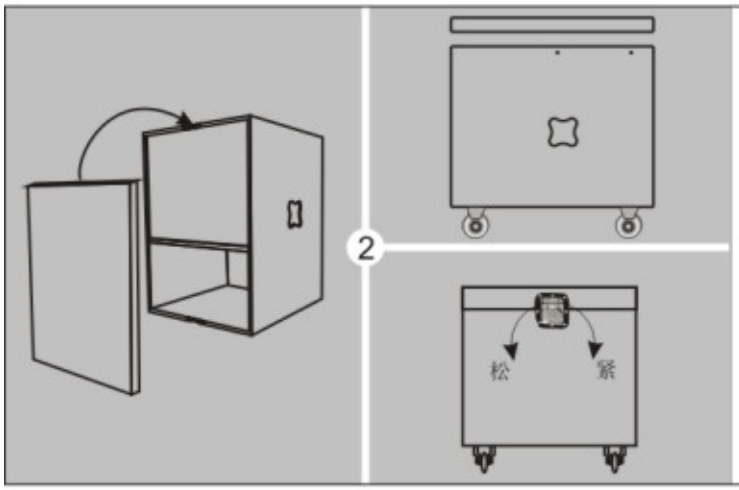


H102 loudspeaker placed method:

1.DSP18A can be placed 2 pcs H102 inside.

2.Please place H102 Vertical always and you can put H102 into DSP18A sub hole easily (See left picuture ①).

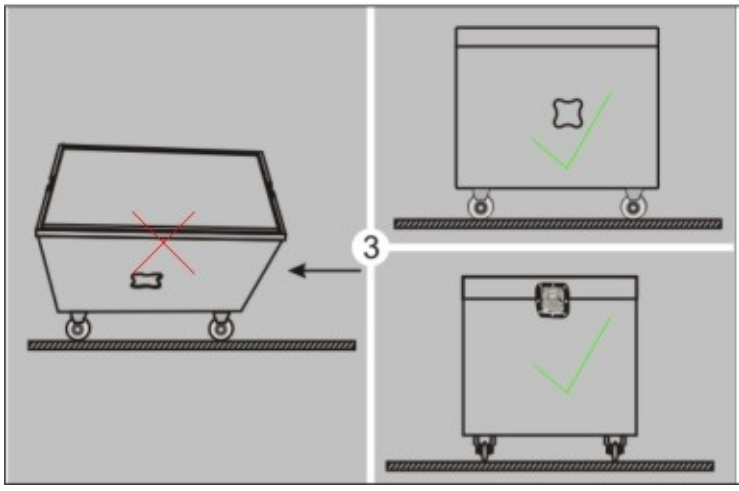
3.Please keep H102 in the opposite side in the DSP18A, if not,H102 will collide each other while transporting



Protect Cover installation method:

1.Match loudspeaker and protect cover with alloy lock catch and loosen the lock catch anticlockwise.

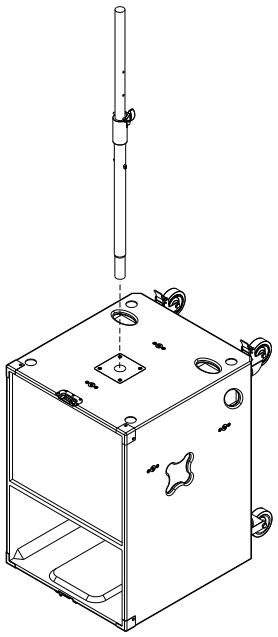
2.Double check the protect cover and loudspeaker if close entirely or not, if not, please adjust the protect cover and tie it clockwise.



NOTE:

Please keep horizontal moving while pushing in order to avoid accident。

MONO (SUPPORT) MODE installation metho

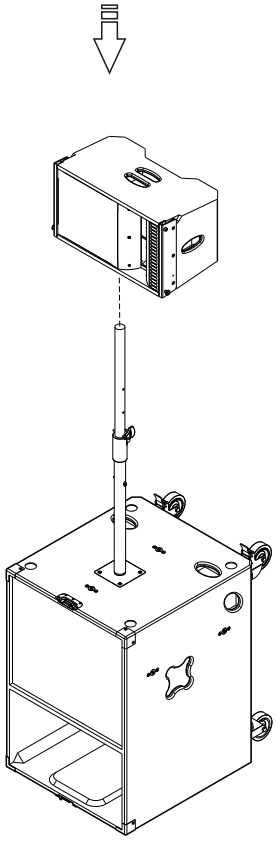


zc–1

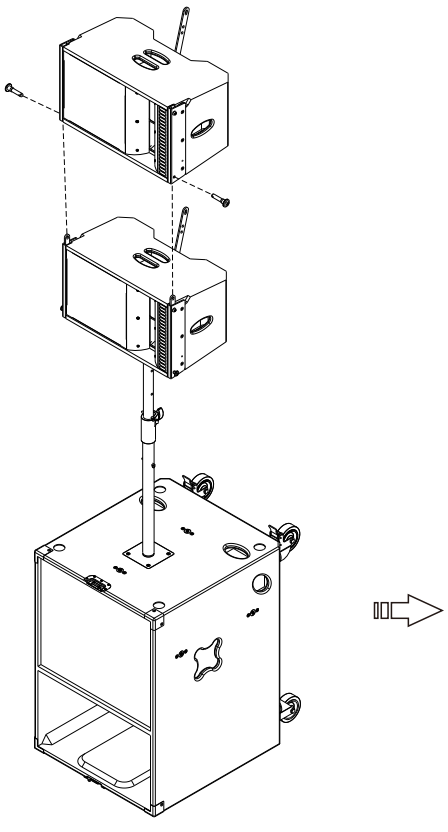
①Pls put the DSP18A on the ground, take out the speaker pole and insert into the hole of DSP18A, then adjust the working hight as you need. Pls see attached picture ZC–1.

② Setting up for the first H102, pls Lift the first H102 and let it insert into the speaker pole, pls see attached piture zc–2.

③ Setting up for the second H102,pls take out the 2pcs connected parts from bothsides of the first H102,and lift the second H102 to stack up on it.pls make sure to let the connected parts to insert into the correct space before you lock it by the pins.finally,pls put the rear connected part from the first H102 into the rear of second H102 and select the working angle as you need before you lock it by the pin. Pls see attached picture zc–3.

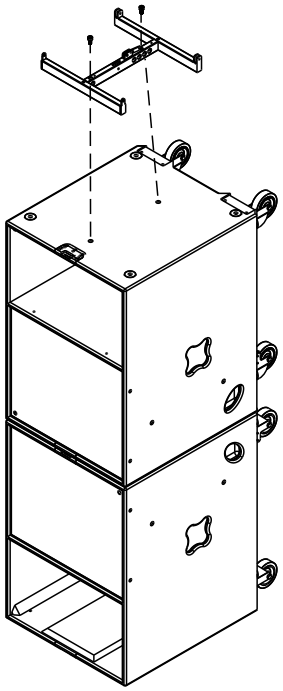


zc–2



zc–3

MONO(STACK) mode installation method

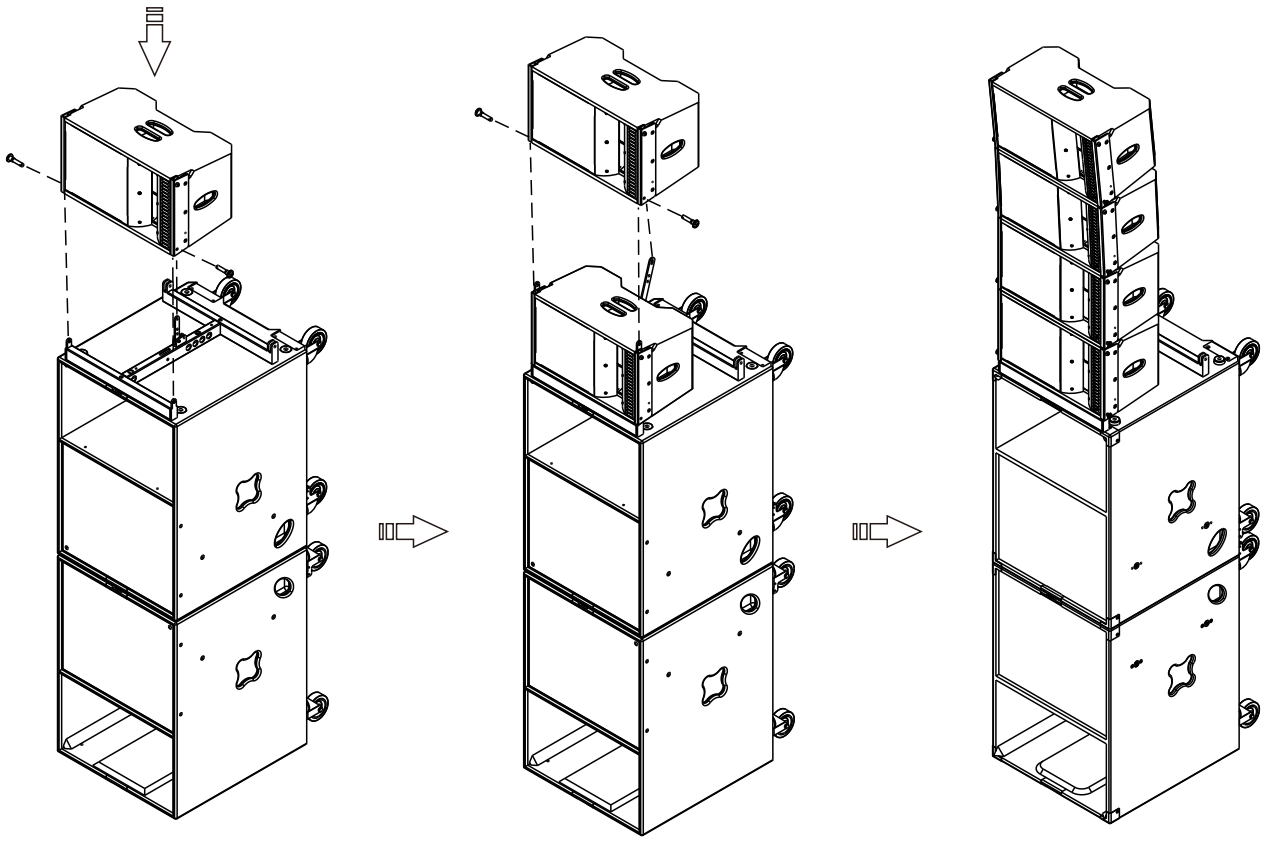


Ref:dd–1

① Ground stacked the 2 subs, and install the H frame by locking the two screws. Ref.: dd–1

② Load 1 top on the H frame in right position and insert the two sides lock pins; adjust the back rigging angle and insert the one lock pin. Ref.: dd–2

③ Get the first top’s front rigging point out and load the second top same as Process dd–2. Finish all the installation process like this. Ref.: dd–3

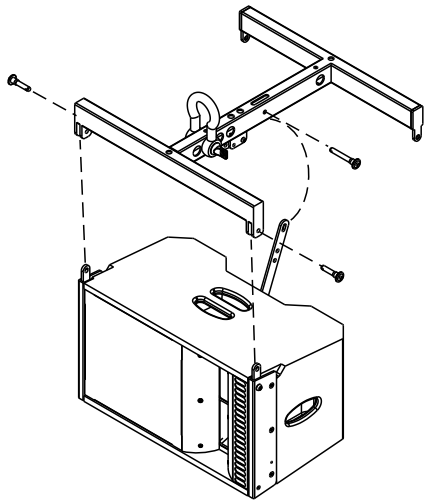


Ref:dd–2　　Ref:dd–3　　安装完成

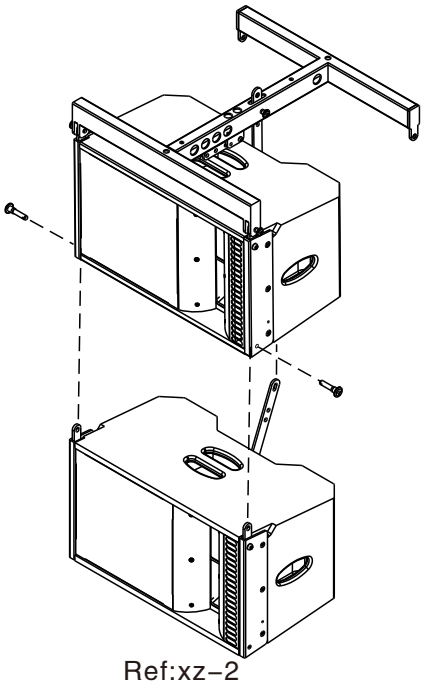
Line array installation method

① Get the first top’s front rigging point out, connect it to the front of the H frame by inserting the two lock pins. Insert the top’s back rigging connector to the H frame groove and adjust dispersion angle, then insert the one lock pin. Ref.: xz–1

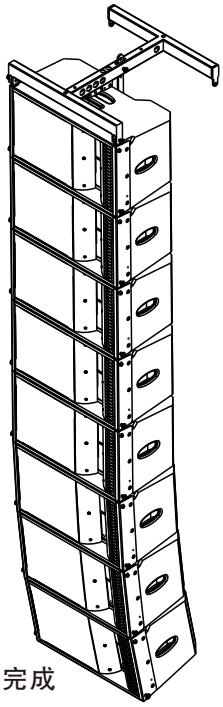
② Install other tops like this process, and you can hang the H frame firstly by a lifting when the weight get heavy and do the installation same as Ref.xz–2



Ref:xz–1



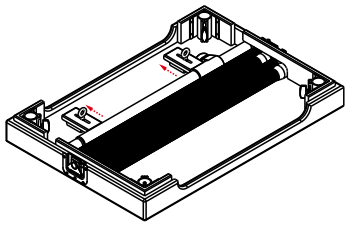
Ref:xz–2



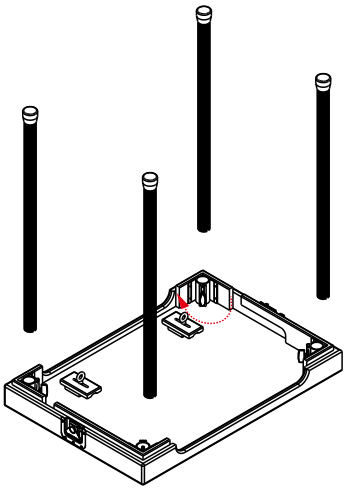
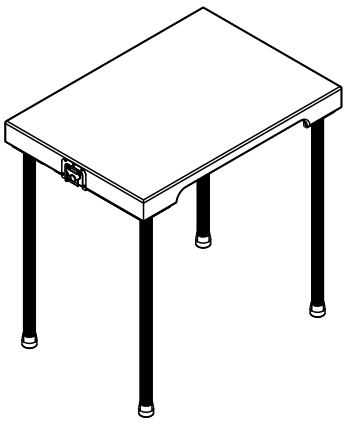
安装完成

DJ table installation method

Open the cover borad , and loose the stick screws of pipe ,take out all the pipes inside the cover , and install each pipe on the holding base of DJ table , and Clockwise twist twist the screw on the seat. After installing the legs of DJ table , and put them on the right position , and the new DJ table installation will be finished check gb–1 and gb–2.



gb–1



gb–2