

USER'S MANUAL

Professional Speaker System



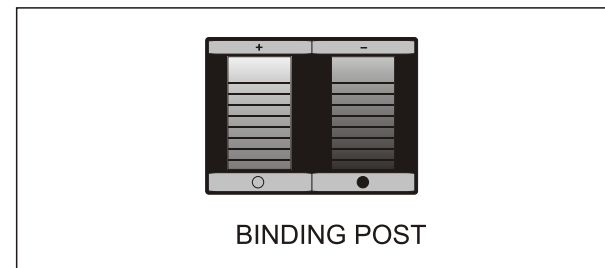
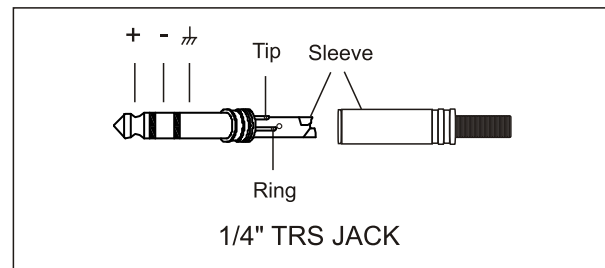
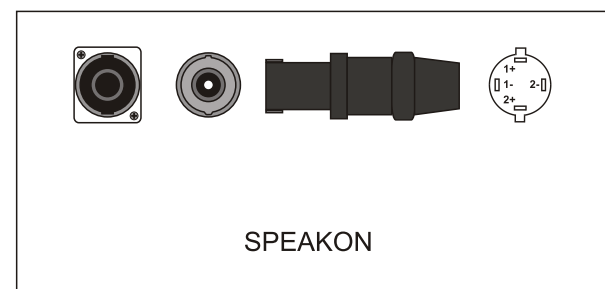
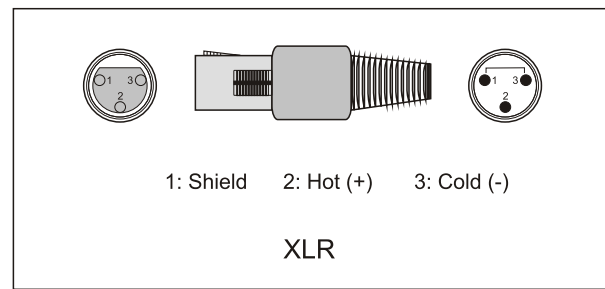
ECNJG1801165

5.2 Active Speaker System

Model	6" 2-WAY	8" 2-WAY	10" 2-WAY
Specifications			
Frequency Range (-10dB)	65Hz-20KHz	50Hz-20KHz	60Hz-18KHz
Power Capacity (Continous Pink Noise)	60W	80W	200W
Nominal Impedance	8 ohms	8 ohms	8 ohms
Sensitivity (1W@1m)	91dB	93dB	95dB
Nominal Dispersion	•	•	90° H x 60° V
Crossover Frequency	2.5KHz	2.5KHz	2.5KHz
LF Driver	FB206	FB208	FB1003
HF Driver	1" Dome	1" Dome	FE001
Maximum SPL	109dB	112dB	120dB
Input Connectors	2×Jack	2×Jack	XLR
Dimensions (H×W×D)	360×200×232 mm	410×230×280 mm	530×310×345 mm
Net Weight	7 kg	8.5 kg	18.5 kg

Model	12" 2-WAY	15" 2-WAY	15" 2-WAY
Specifications			
Frequency Range (-10dB)	45Hz-18KHz	40Hz-18KHz	40Hz-125Hz
Power Capacity (Continous Pink Noise)	250W	300W	600W
Nominal Impedance	8 ohms	8 ohms	8 ohms
Sensitivity (1W@1m)	96dB	97dB	97dB
Nominal Dispersion	90° H x 60° V	90° H x 60° V	•
Crossover Frequency	2.5KHz	2.5KHz	•
LF Driver	FB1203	FB1503	FA2226H
HF Driver	FE001	FE001	•
Maximum SPL	121dB	122dB	126dB
Input Connectors	XLR	XLR	XLR
Dimensions (H×W×D)	630×330×410 mm	720×365×495 mm	640×480×500 mm
Net Weight	23.5 kg	28.5 kg	35 kg

4. WIRING



5. TECHNICAL SPECIFICATIONS

5.1 Passive Speaker System

Model	5" 2-WAY	6" 2-WAY	8" 2-WAY	8" 3-WAY
Specifications				
Frequency Range (-10dB)	95Hz-20KHz	80Hz-20KHz	60Hz-18KHz	60Hz-18KHz
Power Capacity (Continuous Pink Noise)	30W	80W	100W	100W
Nominal Impedance	4ohms / 8 ohms	8 ohms	8 ohms	8 ohms
Sensitivity (1W@1m)	88dB	90dB	92dB	95dB
Nominal Dispersion	•	•	•	•
Crossover Frequency	2.5KHz	2.5KHz	2.5KHz	2.5KHz
LF Driver	FB205	FB206	FB208	FB802-1
MF Driver	—	—	—	FF0501H
HF Driver	3/4" Dome	1" Dome	1" Dome	1" Tweeter
Maximum SPL	100dB	112dB	113dB	115dB
Input Connectors	Binding post	Binding post-1×Jack	Binding post-1×Jack	Binding post-1×Jack
Dimensions (H×W×D)	226×152×130 mm	360×200×232 mm	410×230×280 mm	410×230×280 mm
Net Weight	3.2 kg	4.5 kg	6 kg	6 kg

Model	10" 2-WAY	12" 2-WAY	15" 2-WAY	15" SUBWOOFER
Specifications				
Frequency Range (-10dB)	60Hz-18KHz	45Hz-18KHz	40Hz-18KHz	40Hz-125Hz
Power Capacity (Continuous Pink Noise)	200W	250W	300W	600W
Nominal Impedance	8 ohms	8 ohms	8 ohms	4 ohms
Sensitivity (1W@1m)	95dB	96dB	97dB	97dB
Nominal Dispersion	90° H x 60° V	90° H x 60° V	90° H x 60° V	•
Crossover Frequency	2.5KHz	2.5KHz	2.5KHz	•
LF Driver	FB1003	FB1203	FB1503	FA2226G
HF Driver	FE001	FE001	FE001	•
Maximum SPL	120dB	121dB	122dB	126dB
Input Connectors	2×Speakon-1×Jack	2×Speakon-1×Jack	2×Speakon-1×Jack	2×Speakon-1×Jack
Dimensions (H×W×D)	530×310×345 mm	630×330×410 mm	720×365×495 mm	640×480×500 mm
Net Weight	14 kg	19 kg	24 kg	30 kg

IMPORTANT SAFETY SYMBOLS



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.

1. INTRODUCTION

The series professional speaker system is divided active speaker and passive speaker, it consists of seven sizes, each sizes includes several models, following list will show you the details.

◦ Passive speaker system

5" 2-way speaker system	6" 2-way speaker system	8" 2-way speaker system	8" 3-way speaker system
10" 2-way speaker system	12" 2-way speaker system	15" 2-way speaker system	15" subwoofer

◦ Active speaker system

6" 2-way speaker system	8" 2-way speaker system	15" subwoofer
10" 2-way speaker system	12" 2-way speaker system	15" 2-way speaker system

2. PASSIVE SPEAKER SYSTEM

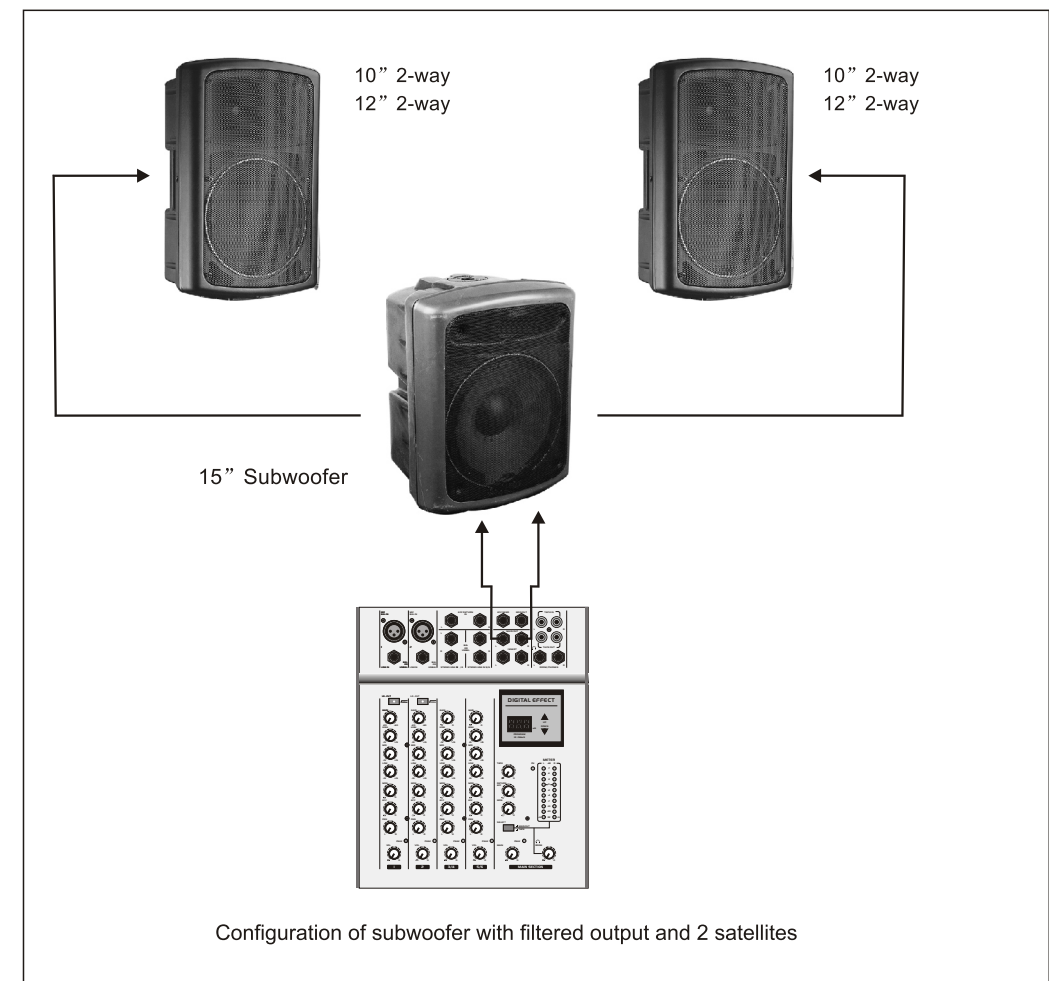
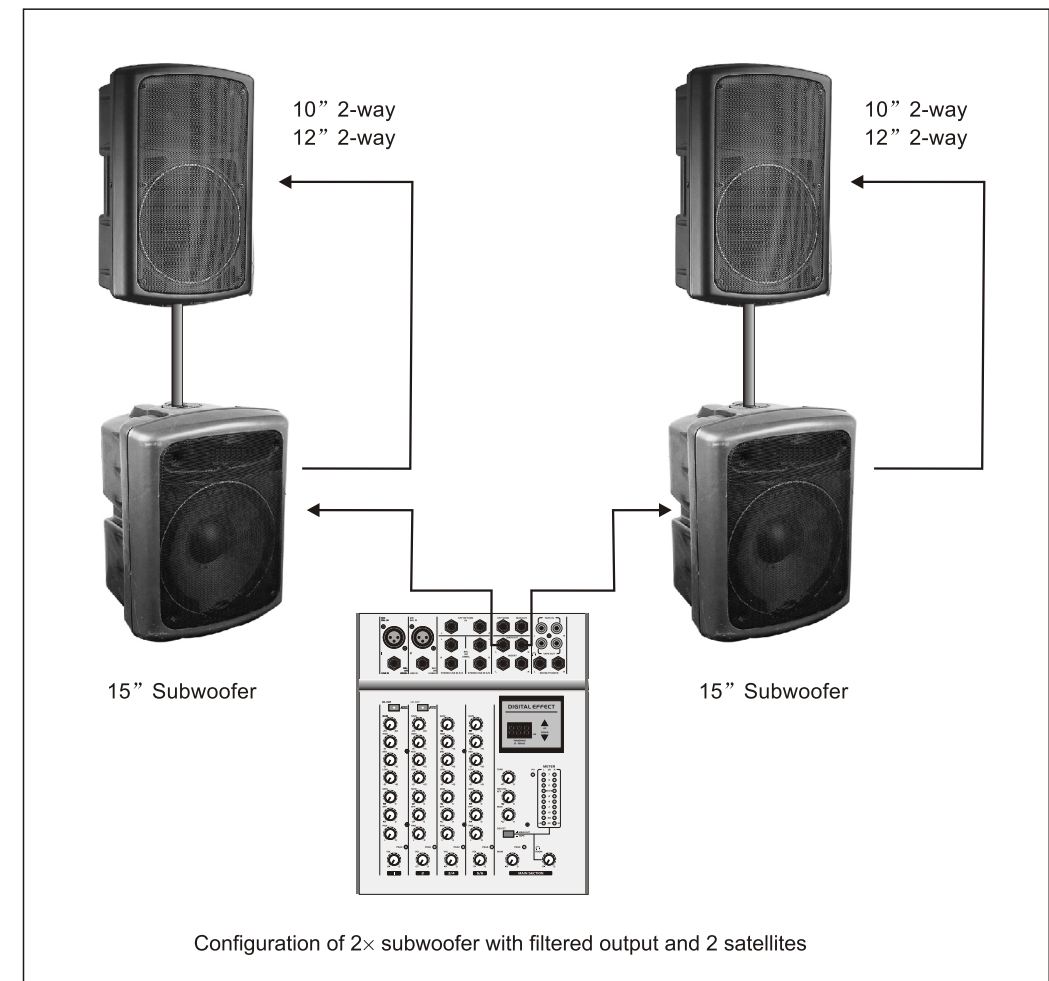
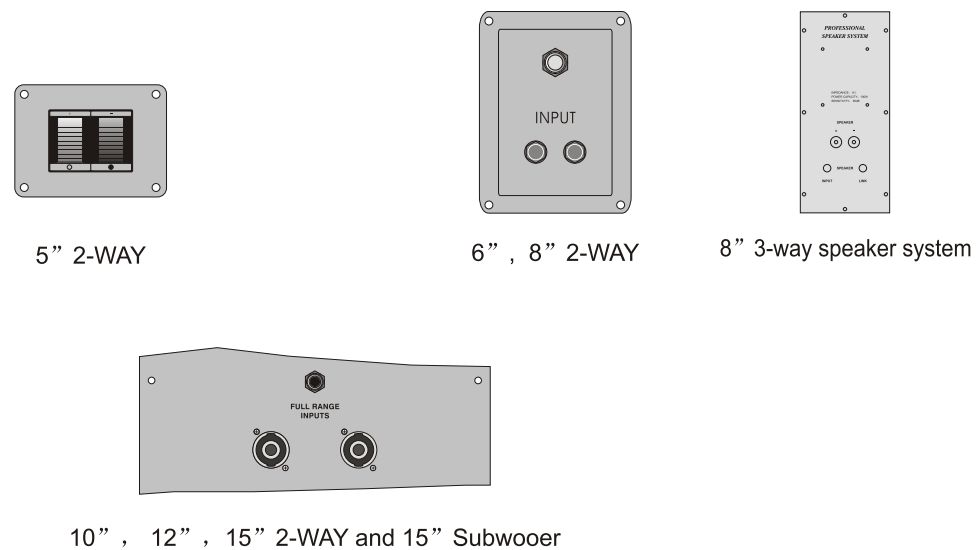
2.1 Features

- Enclosure adopted a high impact polymer, injection molded shaping. It has high intensity and light weight, set a handle, easy to carry it. Designed non-symmetrical enclosure outline. It can be used for fold-back speaker.
- Woofer speaker make a high powered pro-speaker. It has wide-range, low distortion, high sensitivity, adopted a aluminum frame. It has non-mechanical resonance.
- Driver selected a titanium diaphragm, and light mass voice coil, make it high frequency reached 18,000Hz.
- Crossover adopted a high quality polypropylene condenser, flame proof resistor, low less inductance. Precision design dividing frequency and smooth frequency response, and designed auto-limit protection circuit to avoid damage driver.

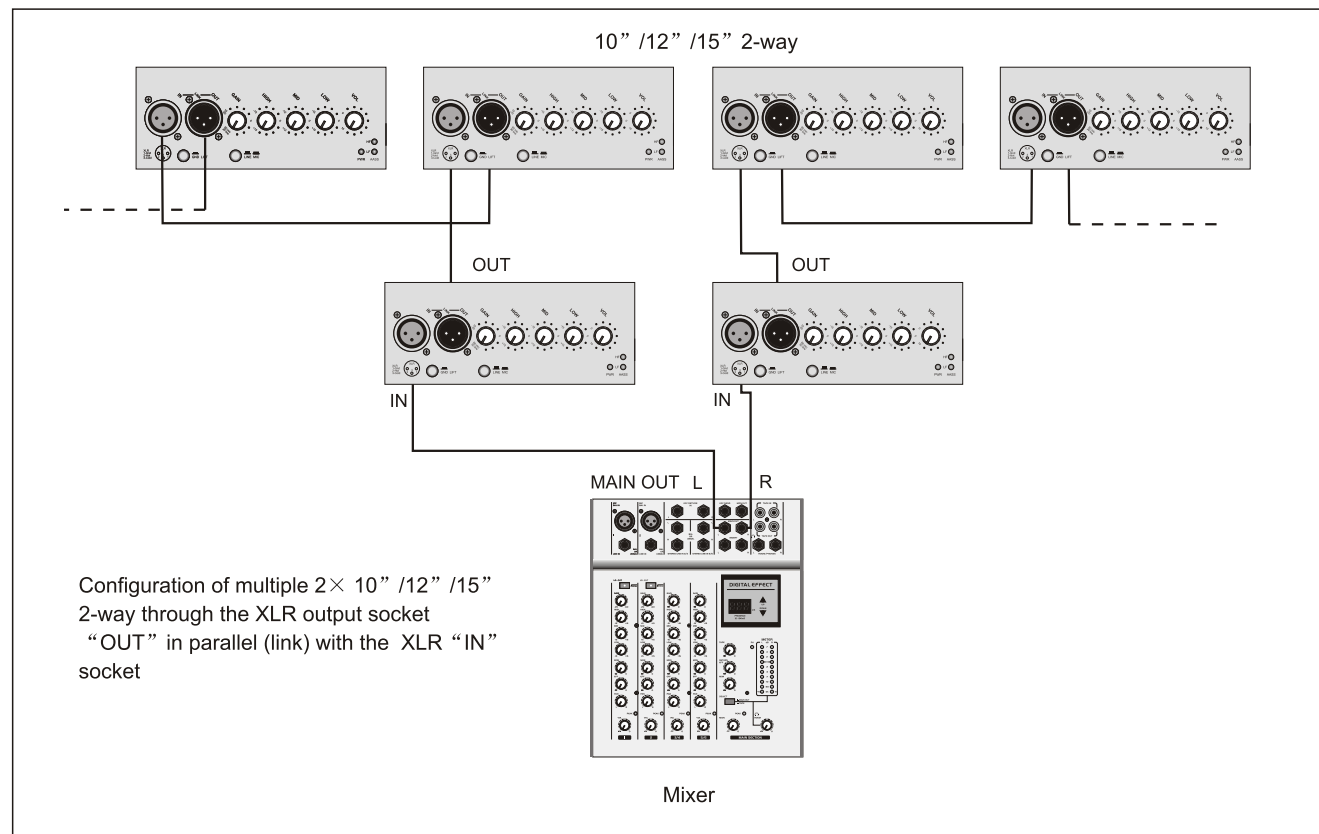
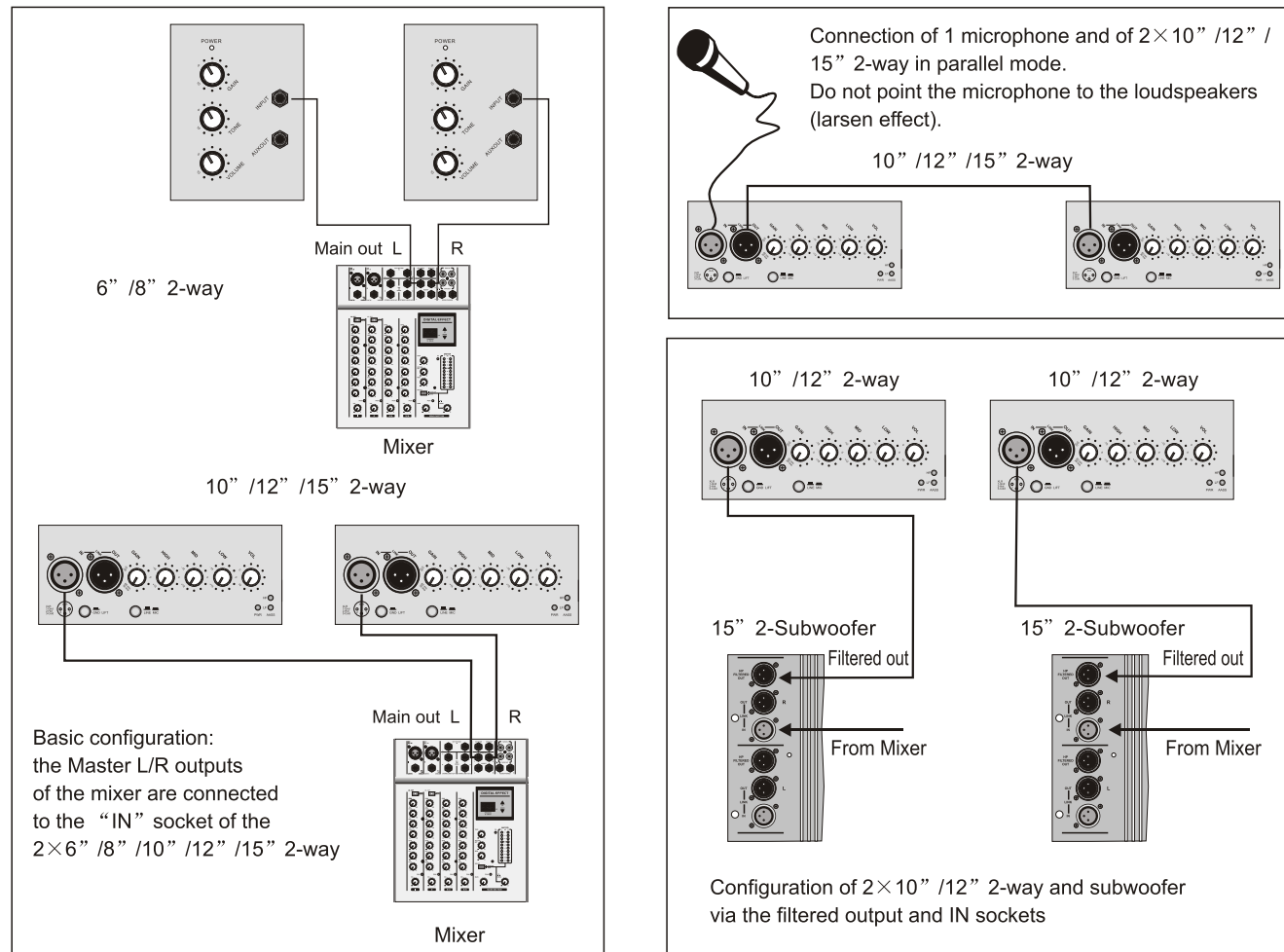
2.2 Control Element

INPUT

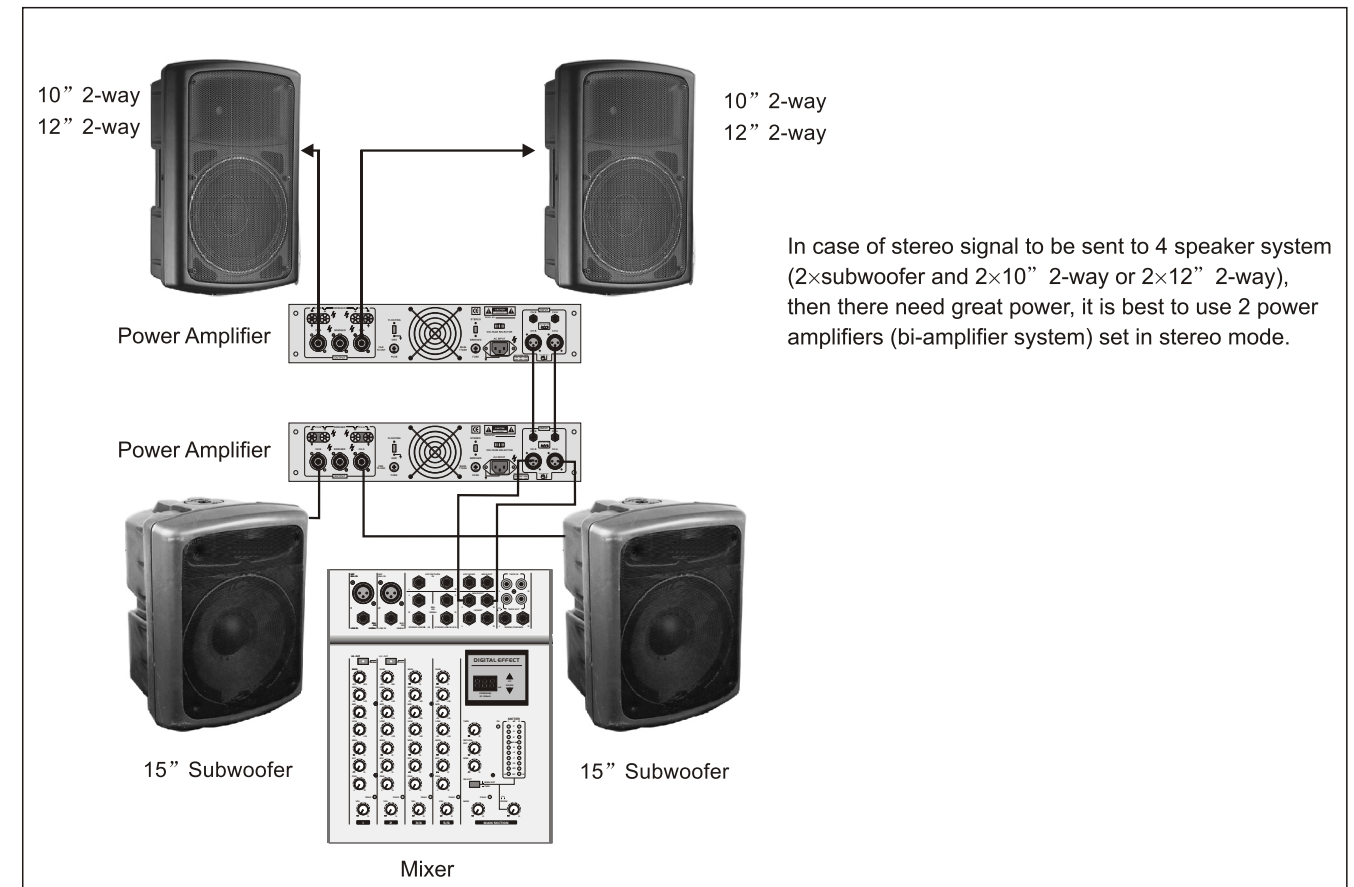
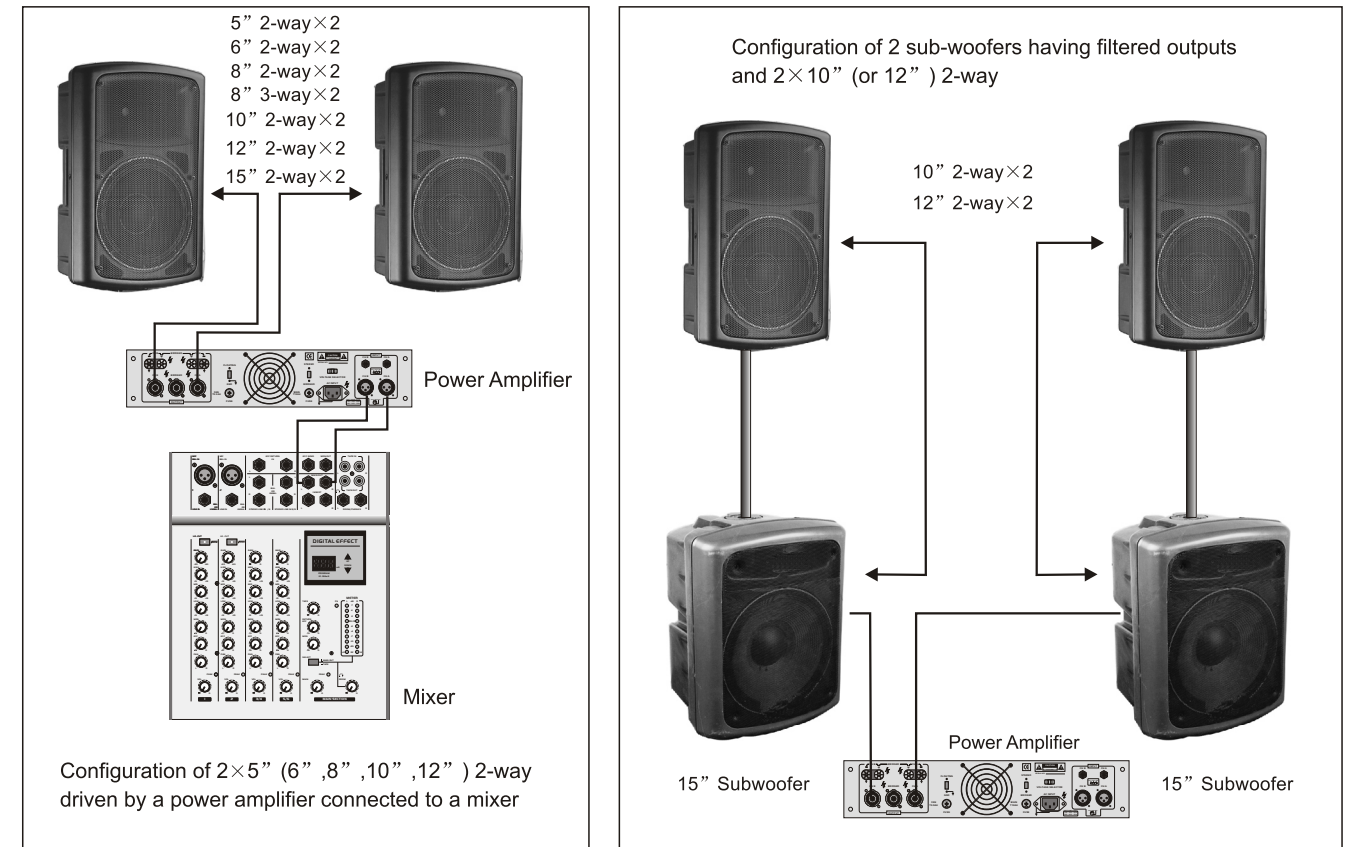
Binding post/1/4" TRS jack/Speakon INPUT connectors, serve to receive the powered signal coming from an external power amplifier. If necessary, some of these can be regarded a link output connector.



3.3 Connection Examples



2.3 Connection Examples

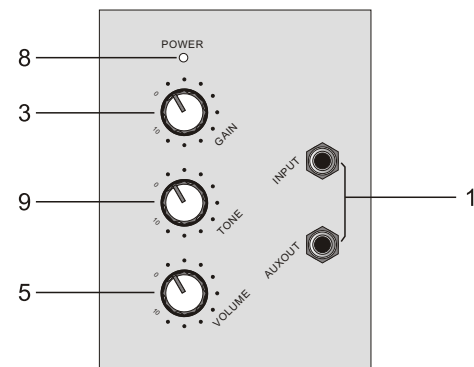


3. ACTIVE SPEAKER SYSTEM

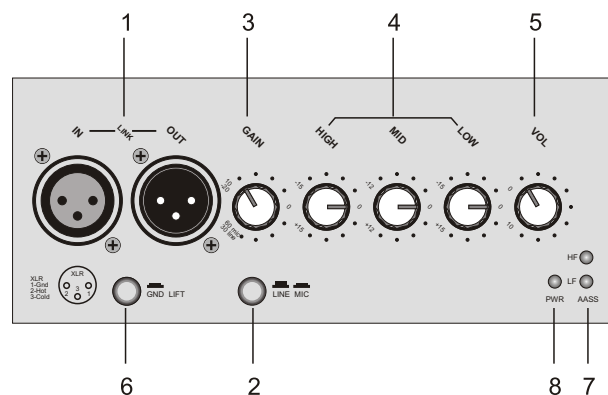
3.1 Features

- Enclosure adopted a high impact polymer, injection molded shaping. It has high intensity and light weight, set a handle, easy to carry it. Designed non-symmetrical enclosure outline. It can be used for fold-back speaker.
- Woofer speaker make a high powered pro-speaker. It has wide-range, low distortion, high sensitivity, adopted a aluminum frame. It has non-mechanical resonance.
- Driver selected a titanium diaphragm, and light mass voice coil, make it high frequency reached 18,000Hz.
- The new A.A.S.S (Automatic amplitude servo system) processor ensures total protection of the transducers and improvement of the acoustic response.

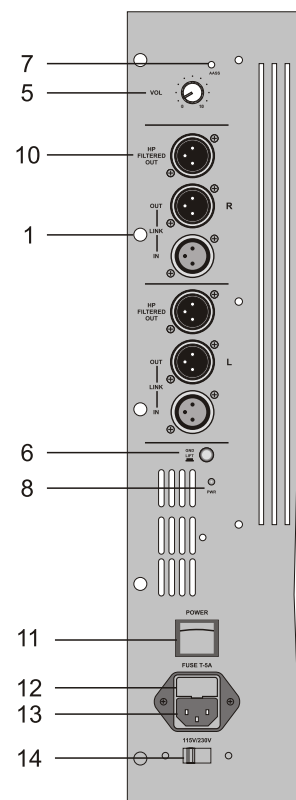
3.2 Control Element



6" , 8" 2-way



10" , 12" , 15" 2-way



15" Subwoofer

1. IN link OUT

Input and output sockets, electronically balanced. The "IN" XLR socket allows connection of a dynamic microphone at low impedance or of a pre-amplified signal such as a mixer line out; the "OUT" socket is connected in parallel (link) with the input "IN" allowing multiple connection of more systems with the same signal.

2. LINE/MIC

Switch to select either "MIC" position if a microphone or a low level appliance is connected; the "LINE" position allows connection of high level signal sources.

3. GAIN

Regulates pre-amplification of the signal coming from the input "IN" , ensuring perfect operation of the channel circuits. For a well-balanced again adjustment, set the Volume to approx 3/4 clockwise, then adjust the gain accordingly.

4. HIGH/MID/LOW

3-band equalization to modify the sound tone. These controls are electronically post-gain and if boosted can clip the channel, in this case adjust the gain control anticlockwise. When the potentiometers are set to "0" the tone remain unchanged.

5. VOL

Volume potentiometer to control the channel signal level. Normally optimal channel circuit performance is achieved with the knob positioned at approx. 3/4 clockwise and the gain control set to the desired level.

6. GND/LIFT

2-position selector for separating the signal source ground and the amplifier ground circuits.

ON: the signal ground is electrically disconnected from the amplifier ground circuit(the chassis). If hum is heard in the loudspeakers, the ON position breaks the ground loop, often the cause of this interference.

OFF: the ground of the input signals is electrically connected to the amplifier ground circuit (the chassis).
USE GROUND LIFT ONLY WITH BALANCED SIGNALS.

7. A.A.S.S

Processor circuit which protects the transducers from excessive tensions; when the audio signal reaches the dangerous threshold for the transducers, the A.A.S.S system automatically intervenes by reducing the amount of signal within acceptable limits: the time reaction of the system are very fast.

The speaker system features two separate protection systems, both for the low frequency and the high frequency drivers; the activation of these protections is recognizable via the "HF" and "LF" leds lighting up in the control panel.

8. PWR

LED signal to indicate the switching on of the system.

9. TONE

This control allows you to adjust the tone within 0 ~ 10.

10. HP FILTERED OUT

Electronically balanced XLR connector, serve to output the high frequency signal.

11. POWER switch

Turns this apparatus on or off.

12. FUSE holder

The fuse holder is for containing the fuse, which is a safety device that protects the AC supplies circuit of the unit.
Caution: if the fuse blew out, it should be replaced with the same type and specification, if the fuse continues to blow out, please stop using and refer servicing to qualified personnel.

13. AC power socket

It is used to connect the power supply to the unit via enclosed power cord.

Caution: ensure the source voltage matches the voltage of product before turning on the unit.

14. Voltage selection switch

This switch provides two voltage selections: 115V or 230V, please select the proper voltage depends on actual application.