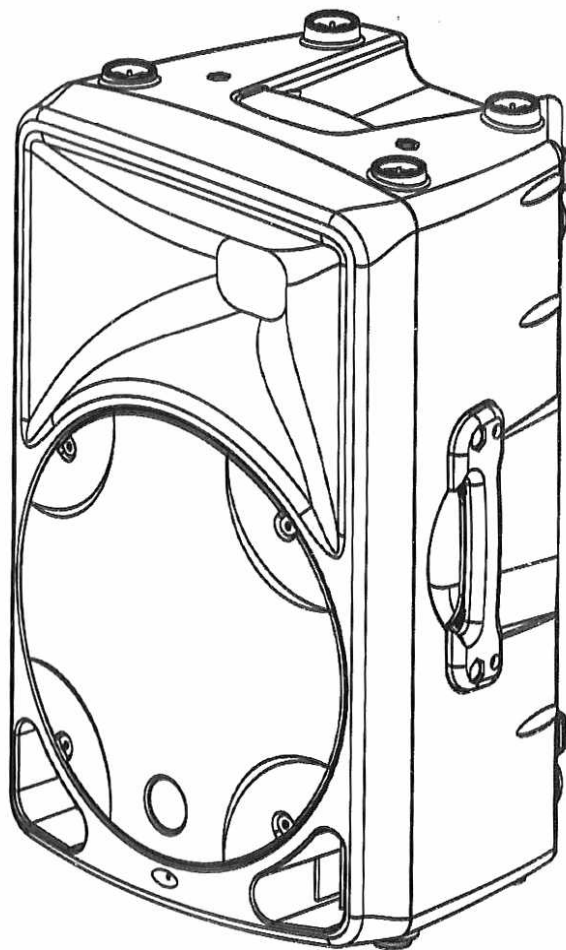


**INVOTONE<sup>®</sup>**  
*You can hear it!*

## **User's Manual**

# **PROFESSIONAL SPEAKER SYSTEM**



# **PSX15A**

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### **IMPORTANT!**

Please read this manual carefully before operating this unit for the first time.

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## SAFETY RELATED SYMBOLS

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The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.



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

⊕ Protective grounding terminal.

~ Alternating current /voltage.

⚡ Hazardous live terminal .

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

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



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

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

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## WARNING

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### • Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

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

### • External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

### • Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

### • Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

### • Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

### • Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.

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

Do not use this apparatus near water. Install in accordance with the manufacture-r's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

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## **IMPORTANT SAFETY INSTRUCTIONS**

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- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.

### • **Power Cord and Plug**

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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

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

### • **Cleaning**

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.

Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

### • **Servicing**

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so .

Servicing is required when the apparatus has been damaged in any way , such as power supply cord or plug is damaged , liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture , does not operate normally, or has been dropped.

The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.



## INTRODUCTION

Thank you for your purchasing of the PSX15A, active sound reinforcement speaker cabinets. It is just one of the many InvoTone products that a talented, multinational audio team and engineers and musicians have developed with their great passion for music.

Your PSX15A are capable of enormous sound pressure level and it has been created to give you a performance that is better than any other loudspeaker in the range.

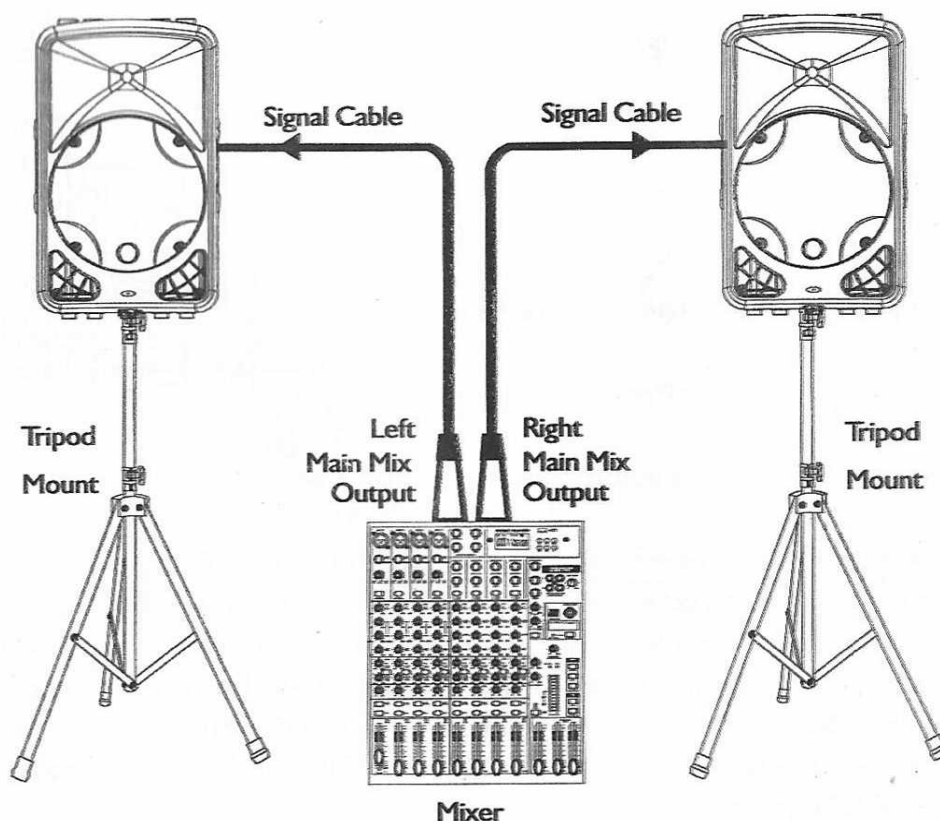
Thanks to the quality of its transducers, built-in amplifier.

Enjoy your PSX15A and make sure to read this Manual carefully before operation!

## QUICK START

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

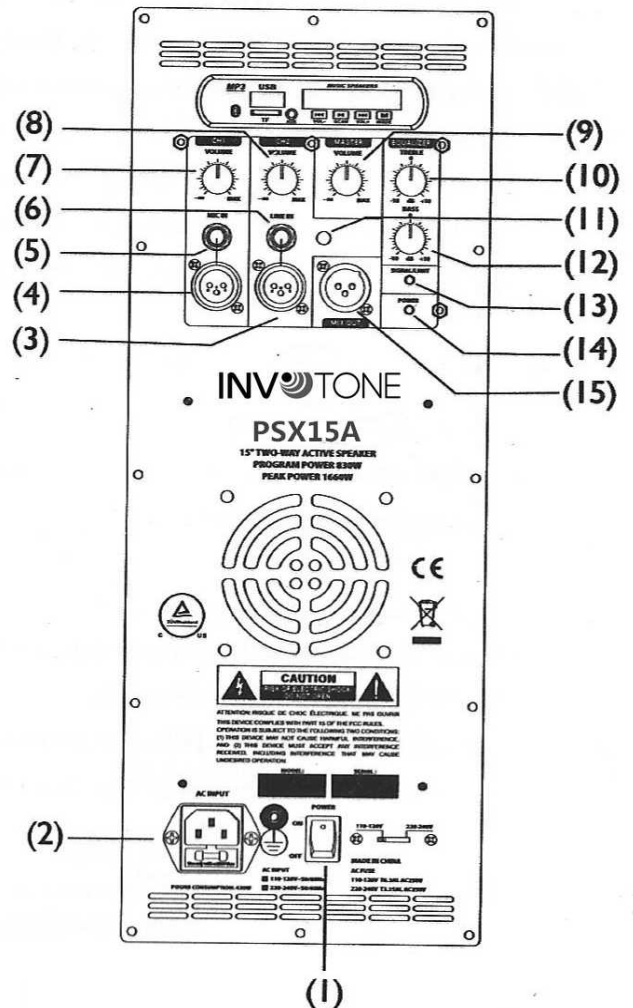
- 1). Connect one side of the signal cable at your audio mixer into output left / right (with Stereo-Jack or XLR) and the other side of the cable into the line input Stereo-Jack) of your active speaker cabinet.
- 2). Connect the power cord to mains.
- 3). Turn on your mixer first, then the active speaker 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.



## BACK PANEL DESCRIPTION

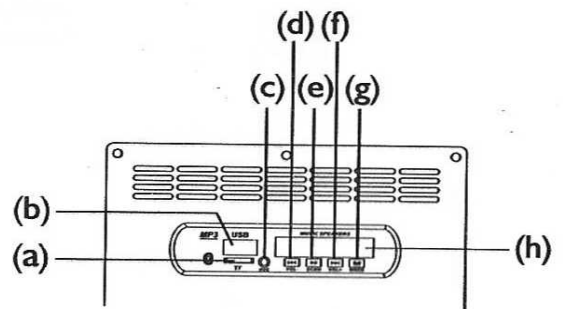
### AMP INTERFACE

- (1) BI-POLAR MAIN POWER SWITCH
- (2) AC POWER SOCKET WITH MAIN FUSE
- (3) LINE INPUT ON XLR CONNECTOR
- (4) MIC INPUT ON XLR CONNECTOR
- (5) MIC INPUT ON 1/4 JACK CONNECTOR
- (6) LINE INPUT ON 1/4 JACK CONNECTOR
- (7) MIC INPUT VOLUME CONTROL
- (8) LINE INPUT VOLUME CONTROL
- (9) MASTER VOLUME CONTROL
- (10) EQ-HIGH CONTROL
- (11) LINE INPUT ON AUX CONNECTOR
- (12) EQ-LOW CONTROL
- (13) CLIP INDICATOR RED LED
- (14) POWER INDICATOR GREEN LED
- (15) MIX OUT ON XLR CONNECTOR



### USB PLAYER

- (a) Insert a standard microSD card
- (b) Insert USB player
- (c) Aux Input
- (d) Play the last song or decrease the volume after pressing 2 seconds
- (e) Press this key to start playing or Press this key to pause
- (f) Play the next song or increase the volume after pressing 2 seconds
- (g) PLAY MODE



In the opening or playing state, press this key to select the three circling modes in order:

**Line:** The player plays the files you input. The mark on the screen is "LINE".

**Bluetooth:** The player plays the files from your bluetooth device. The mark on the screen is "bt". In this state, you will hear a tone from the loudspeaker. From your Bluetooth device's settings page, enable Bluetooth and select "VIRE BT" as the device.

**USB:** The player plays the files in a standard USB drive. The mark on the screen is "USB"

- (h) Display the status of USB playing

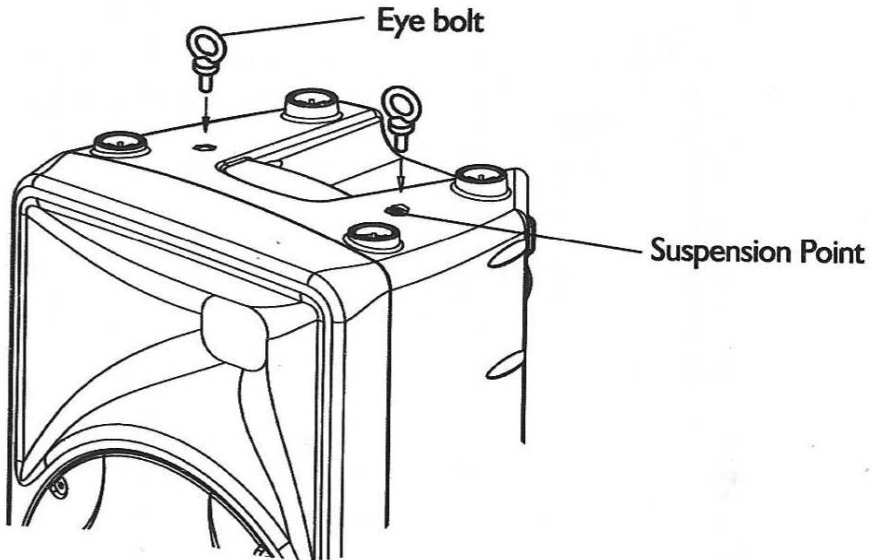
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## RIGGING

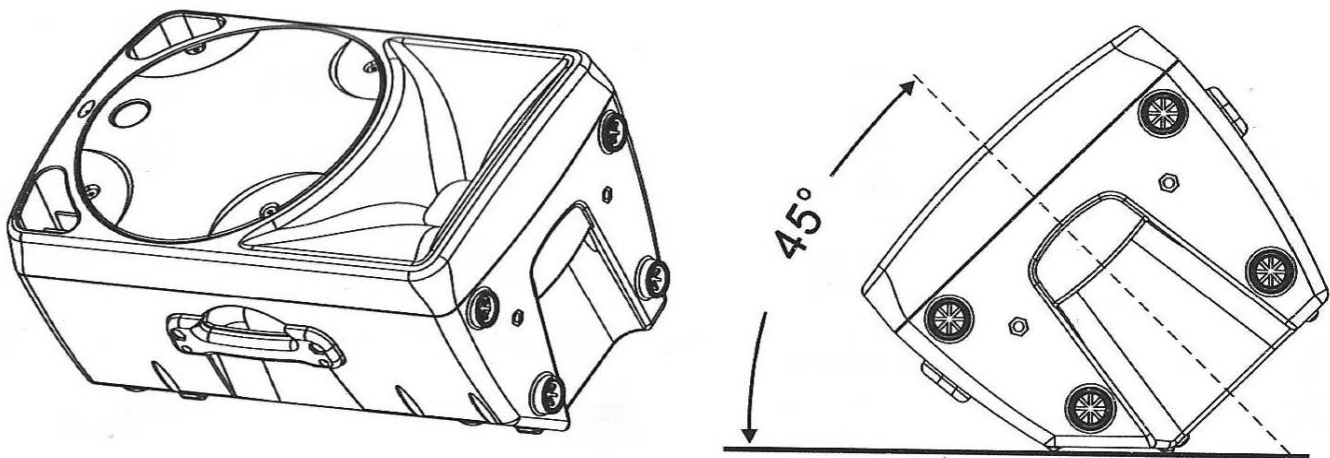
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The speaker cabinet also provides the suspension points for installation.  
(M10 x 1.5PH LENGTH: 30mm).

For further details, please refer to the right illustration

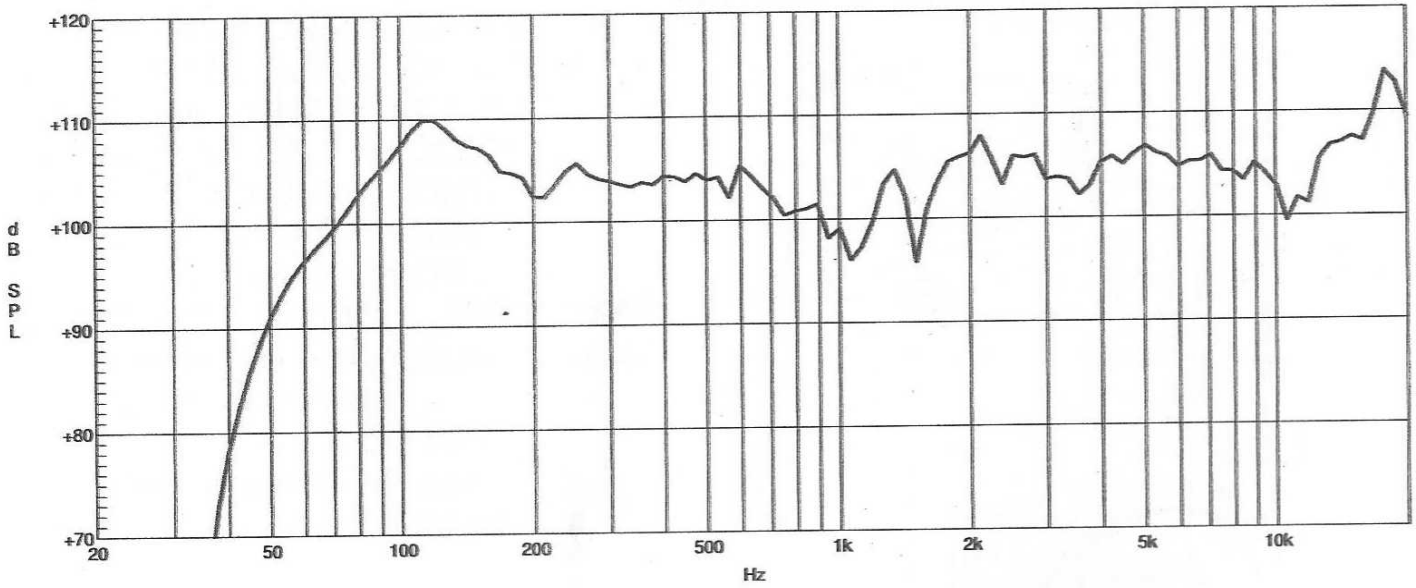


The floor use is as a function of a monitor when the angle is 45°



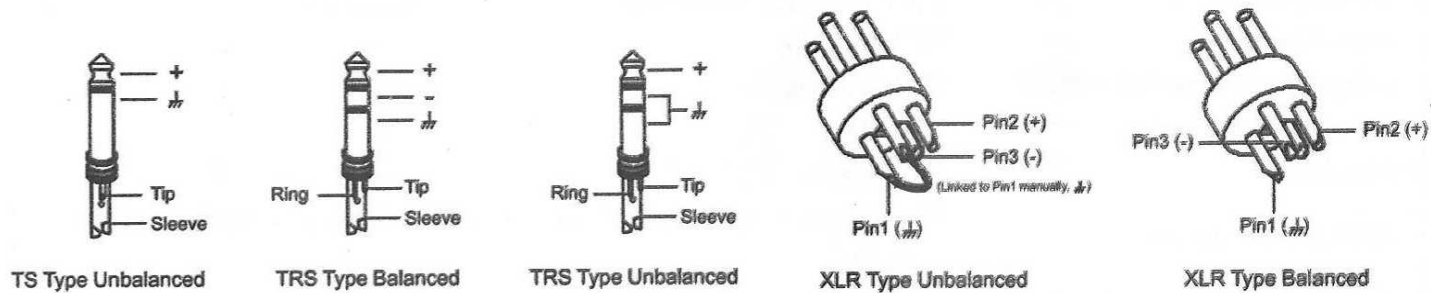
# FREQUENCY RESPONSE DIAGRAM

PSX15A



# WIRE CONNECTIONS

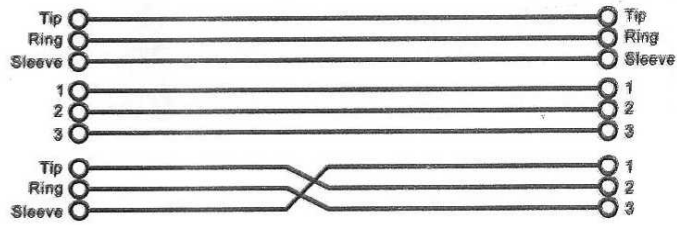
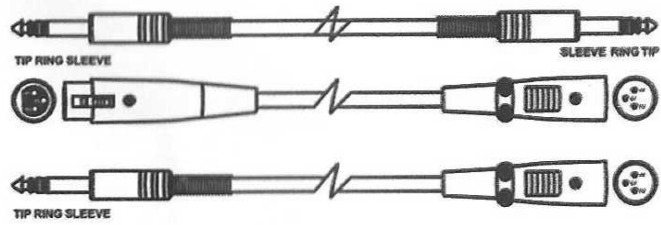
Both connectors, 1/4" XLR or TRS, can be wired in balanced or unbalanced way, depending on the work necessity. The following ones are examples of how these connectors can be wired:



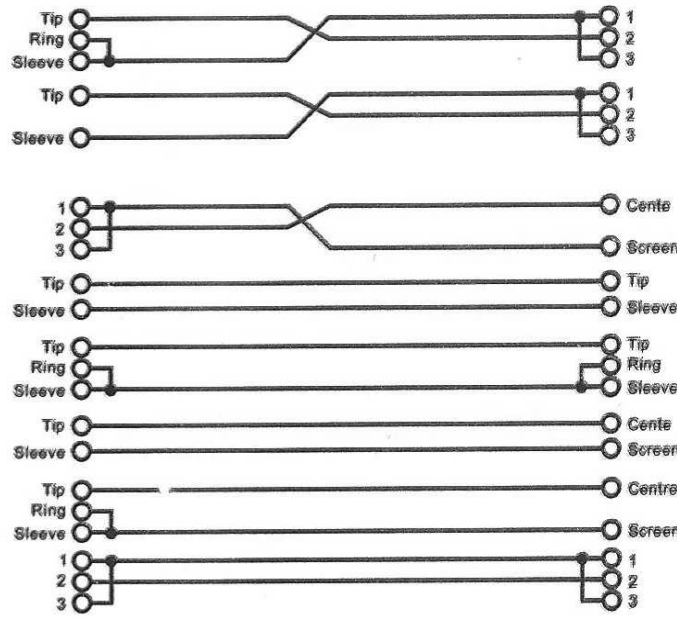
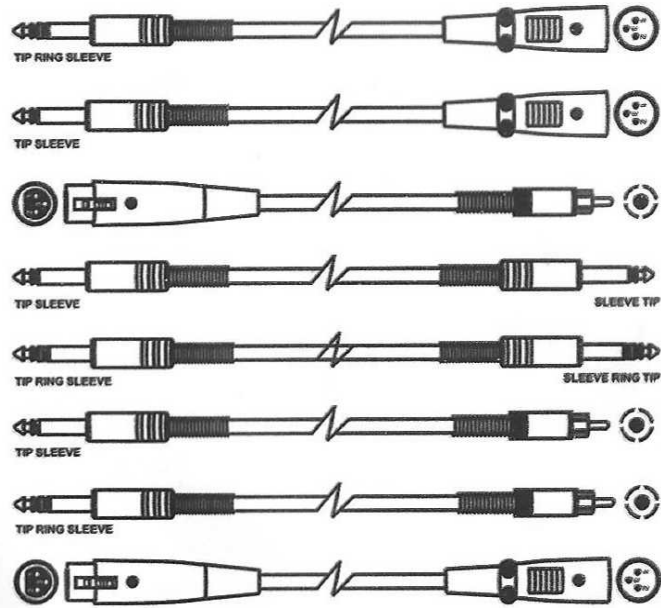
## For Active Speaker Cabinets

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





## TECHNICAL SPECIFICATIONS

Model Active	PSX15A
System Type	2-Way Active Vented Speaker
Transducer Low	15" Woofer, 3" voice coil
Transducer Driver	1" Driver, 1.35" Voice Coil
Horn Coverage	90° H x 45° V
Frequency Response (-6dB)	55Hz-20KHz
Crossover Frequency	2.5K Hz
Max SPL	128dB Max.
AMP Power Output	450W Continuous ( Bi-AMP , LF 350W/RMS + HF 65W/RMS)
USB Player	With USB & Mirco SD CARD
Connector	INPUT1-Mic With XLR*1&6.3 Jack*1 / INPUT2-Line With XLR*1 & 6.3Jack*1&3.5Jack*1
External Controls	Input 1&2 and Master Volume Control / 2 Band EQ-High&Low / Power ON with Green LED / Clip Limiter with Red LED
Electronic Protections	Thermal / Overload / Analog limiter / Compressor
Power Supply	110V / 240V Switchable
Enclosure Construction	Plastic cabinet, Trapezoidal & Monitor shape, Metal grille, Rubber foot, 3* Handles ( both side and Top)
Mounting	36MM standard pole-mount / M10*4PCS Flying Pointing (Optional)
Dimensions (HxWxD)	632*386*366 mm
Net Weight	19.2(kg)