PROFESSIONAL

POWER AMPLIFIER

USER MANUAL

AUDIO

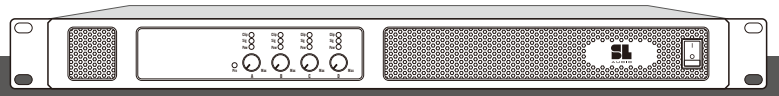
Professional Power Amplifier

USER MANUAL

USER MANUAL

Thank you for purchasing a power amplifier. In order to make full use of the product's functions and ensure smooth operation, please read this instruction manual carefully before use.

After reading this manual, please store it in a safe place for future reference.



Thank you for purchasing a power amplifier. In order to maximize the performance of this power amplifier and extend the normal life, please read this manual carefully before use.

PRECAUTIONS

Please read the following carefully before using. Be sure to follow these instructions.

The following precautions can prevent the risk of injury to users and other things and prevent property damage, and help users use this product reasonably and safely. Be sure to follow these instructions.

After reading this manual, please keep this manual in a safe place for future reference.

- **Be sure to ask the dealer where you purchased the product or ask a qualified technician for testing or repair.**
- **The company is not responsible for personal injury and product damage or data loss or damage caused by improper use or unauthorized modification of this product.**
- **This product is suitable for professional audio system. For example, it is suitable for large-scale stage performances, conference halls, high-level clubs, bars, KTV nightclubs, entertainment events, etc.**

Power/power cable

- Only can use the rated voltage specified by this equipment. The required voltage is printed on the nameplate of the device.
- Do not put the power cable near a heat source such as a heater or radiator. Do not bend or damage the power cord excessively. Do not press heavy objects on it. Do not put it on the surface that may be stepped on or may be crushed.
- Be sure to connect to a suitable power outlet with a protective earth connection. Improper grounding may cause electric shock

Do not disassemble

- Do not disassemble or modify this product. This device does not contain any user-serviceable parts. Failure to do so may result in fire, electric shock, or malfunction. If you find any improper operation, please stop using it immediately and have the qualified technicians perform maintenance and repair.

Warning about moisture

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place a container containing liquid on it, as this may cause liquid to splash into any openings. If any liquid such as water seeps into the unit, immediately turn off the power and unplug the power cord from the AC outlet. Then, please have qualified maintenance personnel of the company to overhaul the equipment.
- Do not plug or unplug the power cord with wet hands.

Connection

- Turn off the power switches of all devices before connecting the device to other devices. Turn all volume to a minimum before turning the power switch on or off for all devices.
- Only use the speaker cable when connecting the speakers to the speaker jack. Using other types of cables may result in fire.
- Do not put the device in a place where it may be exposed to corrosive gases or salty air. Failure to do so may result in malfunction of the equipment.

SPECIFICATIONS

Models	LDX4.2	LDX4.3	LDX4.4	LDX4.6	LDX4.8
Stereo（4 Channels）	POWER FOR EACH CHANNELS				
8Ω/FTC20HZ-20KHZ@0.5%THD 4Ω/FTC20HZ-20KHZ@0.5%THD	4x150W 4x250W	4x250W 4x450W	4x350W 4x600W	4x600W 4x1100W	4x800W 4x1450W
Bridged（2 Channels）	POWER				
8Ω/FTC20HZ-20KHZ@0.1%THD 4Ω/FTC20HZ-20KHZ@0.1%THD	2x300W 2x500W	2x500W 2x900W	2x700W 2x1200W	2x1200W 2x2200W	2x1600W 2x2900W
S/N（20HZ-20KHZ）8Ω	>95DB				
THD（@8Ω 1KHZ）	<0.5%				
Input Sensitivity	0.775V/1.0V			0.775V/1.0V/1.44V	
Frequency Response	20HZ-20KHZ+/-0.5DB				
Circuit Type	CLASS D				
Damping Factor	>500@ 8Ω				
Cooling System	4Fans				
In/Output Connection	Input : Balance XLR Female Output: XLR Male				
Control	Front:AC Switch Volume independent control for each channel. Rear:Stereo/Parallel/Bridge,Sensitivity Adjustment				
Protection	Short,Auto Limited,Over load AC/DC protection				
Dimension（WxDxH）	553x518x95mm			552x418x102mm	
Net Weight	6.6Kg	6.6Kg	6.6Kg	6.8Kg	6.8Kg
Power Supply	220V			90V-260V	

CONNECT THE POWER WIRE TO THE [AC IN] CONNECTOR

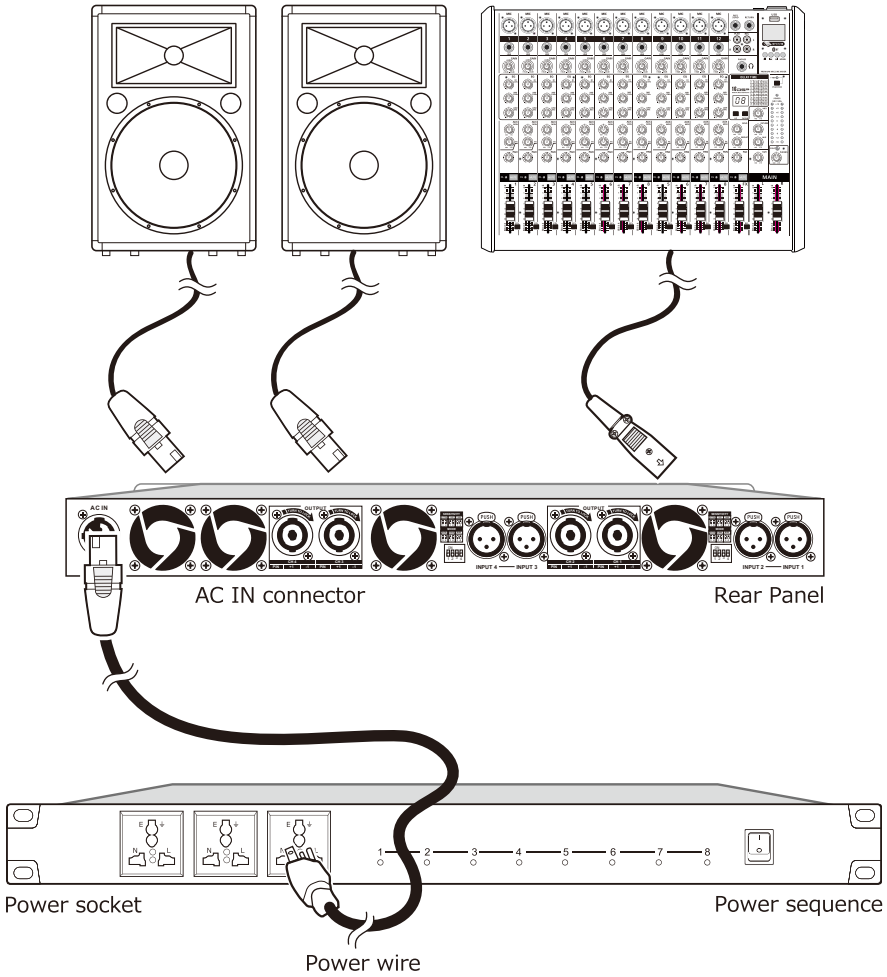
PROFESSIONAL POWER AMPLIFIER AND POWER SEQUENCE

Connect the power wire to the power sequencer socket interface

Please use the power correctly!

⚠WARNING

To ensure that the speaker does not emit loud noise, turn on the source device and then turn on the mixer and processor. Finally turn on the power amplifier. When the system is turned off, Please reverse the order.



When aware of any abnormal conditions:

- If the power cable is worn or damaged, the sound is suddenly interrupted during the use of the equipment or an abnormal smell or smoke is emitted. Please immediately turn off the power switch,Unplug the power plug and ask qualified service personnel.

Operating Carefully

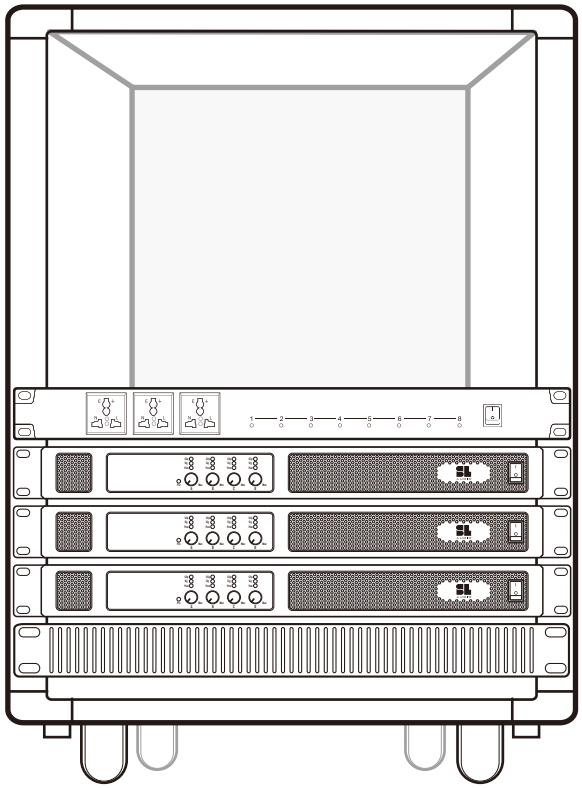
- When turning on the audio system, please turn on the device last to avoid damage to the amplifier. Also turn off the power when turning off the power.
- Condensation can occur in the device due to rapid, drastic changes in ambient temperature (for example, moving the device from one location to another, or turning the air conditioner on or off). Using this unit in the event of condensation may result in equipment damage. If there is reason to believe that condensation may have occurred, turn off the power to the unit and stop using it for a few hours until the condensation is completely dry.
- Do not insert your fingers or hands into any gaps or openings in the device (vents, ports, etc.).
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings (vents, ports, etc.) on the device. In this case, turn off the power switch immediately and pull it out of the AC power outlet. Then have it serviced by qualified technical service personnel.
- Do not use the amplifier or headphones at high or uncomfortable volume levels for extended periods of time as this may cause permanent hearing damage. If you experience any hearing loss or tinnitus, please see a doctor.
- Do not put your body on the device or put some heavy objects on it. Avoid excessive force when operating buttons, switches or sockets.
- Do not use this device for anything other than to drive a loudspeaker.

Placement position

- Be sure to unplug all the connecting cables before moving the amplifier.
- When setting up the device, make sure that the AC outlet you are using is within easy reach. If a problem or malfunction occurs, disconnect the power switch immediately and unplug it from the power outlet. Even if the power switch is turned off, there is minimal current to the product. When you are not using the product for a long time, be sure to unplug the power cord from the AC outlet.
- To avoid deformation of the operator panel or damage to internal components, do not put the amplifier in an environment where there is a lot of dust, vibration, extreme cold or heat (such as in direct sunlight, near a heater or in a car under the scorching sun).
- Do not put the amplifier in an unstable location as it may cause it to suddenly fall over.
- Do not block the ventilation holes. This unit has ventilation holes on the front/back to prevent excessive temperature inside the unit. Special care should be taken not to put the amplifier sideways or upside down. Poor ventilation can cause overheating and can damage equipment or even cause a fire.
- Do not use the amplifier near televisions, radios, stereos, mobile phones, or other electronic devices. This can cause noise in the device itself as well as in the TV or radio near the device.
- If you install the device in an EIA standard bay, read "Precautions when installing the device with the bay". Poor ventilation can cause overheating and can damage equipment, cause malfunctions, and even cause a fire.
- Thank you for purchasing a power amplifier. In order to maximize the performance of this power amplifier and extend the normal life, please read this manual carefully before use.

Precautions when installing the device with the bracket

- This unit can operate normally within the ambient temperature range of 0-40 °C. If you only install the device in an EIA standard bay, you can install multiple devices without leaving space between the devices. If this unit is installed in an EIA standard bay together with other types of equipment, the heat generated by other equipment may cause the internal temperature of the rack to rise, resulting in the unit not working properly. To ensure that no heat builds up inside the unit, the following conditions must be observed when installing it in the bracket.
- If this unit is installed in a bracket together with other heat-generating equipment (such as power amplifiers manufactured by other companies), a space of 1U or more must be left between the unit and other equipment. Ventilation panels should also be installed in this space or kept open to ensure adequate ventilation.
- Keep the back of the bracket open and leave a 10 cm or greater distance between the bracket and the wall or ceiling to ensure adequate ventilation. If the back of the bracket cannot be left open, a commercially available fan assembly or forced air circulation system must be installed on the bracket. If the fan assembly is already installed, closing the back of the bracket may result in better cooling. For more information, see the operating instructions that came with the bay system or fan assembly.
- The terminal marked with the symbol "⚡" is a warning of dangerous, and the external wires connected to these terminals need to be installed by the electrician, or it's the warning for use a ready-made lead or flexiable cord.



⚠ Cabinet installation

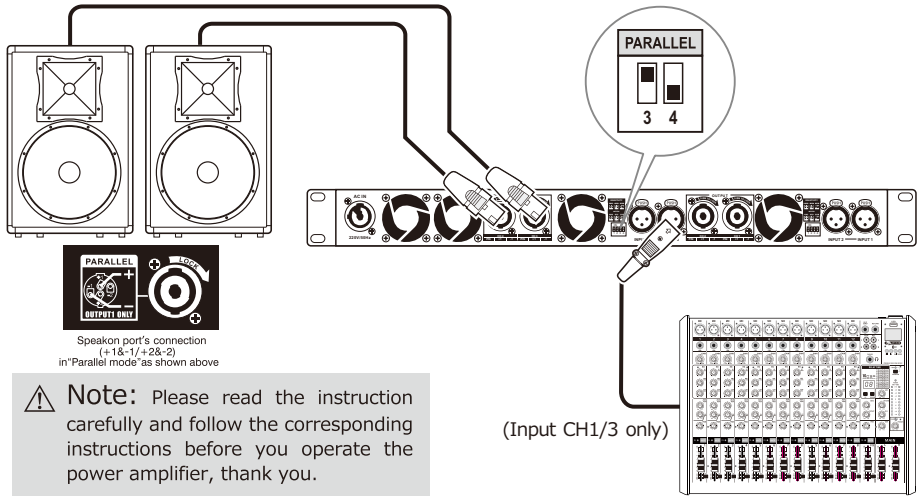
(Install the corresponding product according to the maximum tolerance of the cabinet)

APPLICATIONS

POWER AMPLIFIER MODE INSTALLATION

PARALLEL MODE

1.Confirm parallel mode again,as shown "PARALLEL" .
2.By linking the XLR interface for signal input,as shown.
3.Connect the speakers through the Speakon, the specific connection as shown below.



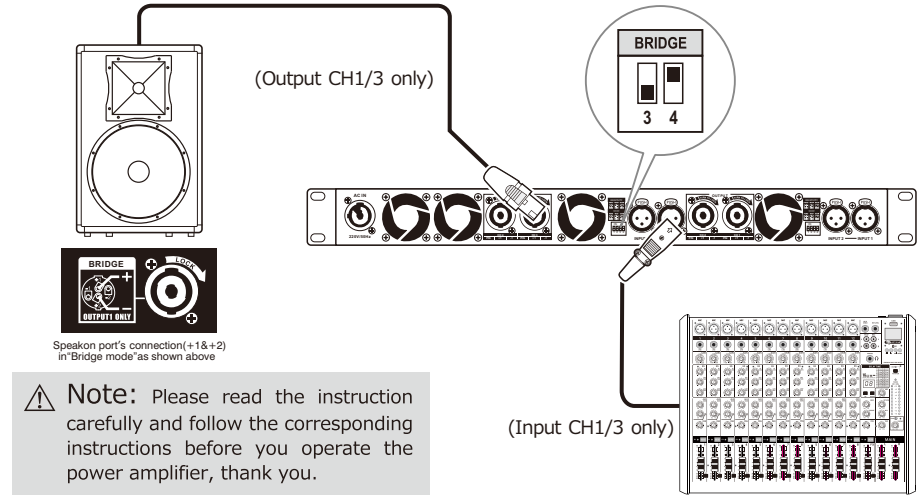
Speakon port's connection (+1&-1/+2&-2) in"Parallel mode"as shown above

⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

BRIDGE MODE

Bridge mode can get more power by single channel, which is twice as many as single channel. And also used according to the actual situation.

1.Confirm it set by bridge mode already,as shown "BRIDGE" .
2.Connect the speakers through the speakon, before connecting, please pay attention to the internal connection way of the speakon port, is different from Stereo mode / Bridge mode.



Speakon port's connection(+1&+2) in"Bridge mode"as shown above

⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

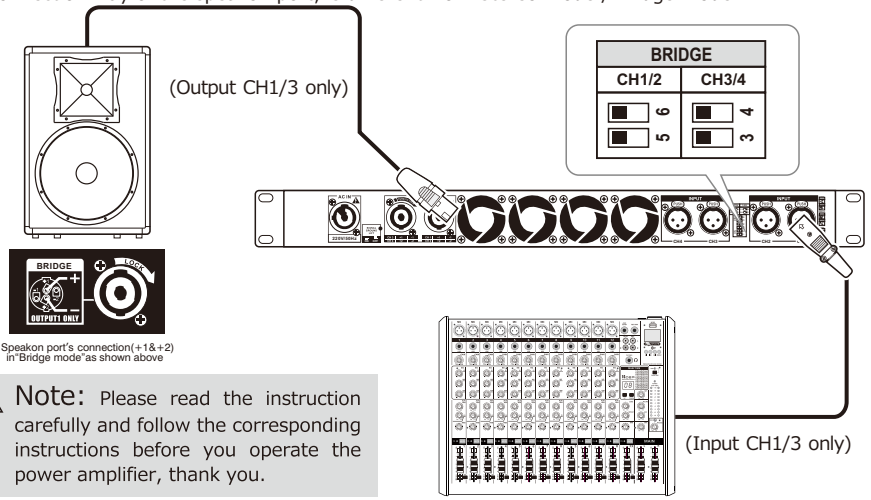
APPLICATIONS

POWER AMPLIFIER MODE INSTALLATION

BRIDGE MODE

Bridge mode can get more power by single channel, which is twice as many as single channel. And also used according to the actual situation.

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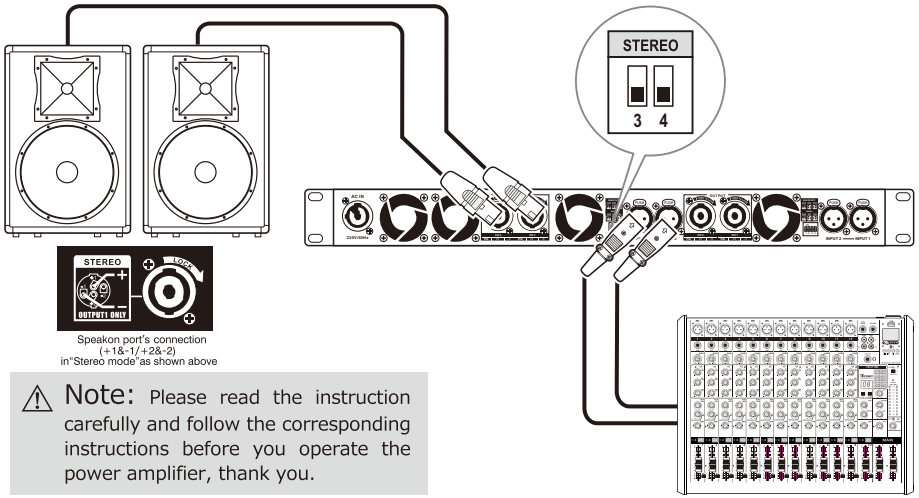


⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

STEREO MODE

This mode is factory default settings, defaults to stereo mode before it leaves the amplifier factory.

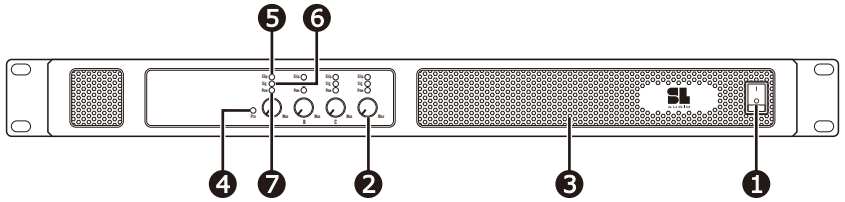
1.Confirm stereo mode again,as shown “STEREO” .
2.By linking the XLR interface for signal input,as shown.
3.Connect the speakers through the Speakon, the specific connection as shown below.



⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

EACH CONTROLLER AND FUNCTIONS

FRONT PANEL



❶Power button
Power on or off.

❷Volume knob
Adjust the volume.

❸Air inlet
Air inlet of the cooling fan.
Make sure not to block the air inlet.

⚠WARNING
To ensure that the speaker does not emit loud noise, turn on the source device, turn on the mixer and processor, and finally turn on the power to the amplifier. When the system is turned off, Please reverse the order.

LED light status indication

This indicator lights up when the power is turned on

❹〔PROTECT〕Indicator
When the cooling system is fault or short out,the red LED light lights up.

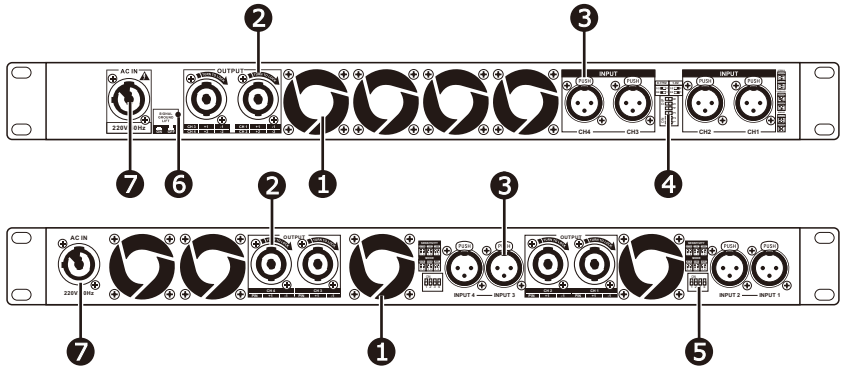
❺〔CLIP〕Indicator
When the channel's output is being overdriven,the red LED light lights up.

❻〔SIGNAL〕Indicator
When there has input signal,the green LED light lights up.

❼〔POWER〕Indicator
When the power button is on,the green LED light lights up.

NOTICE
When the machine is used for a period of time, turn off the power, the CLIP indicator will light up for a few seconds and then slowly stop. This is normal, because the large electrolytic capacitor is discharging, so please do not open the machine under any circumstances. Cover and touch the internal components of the machine to avoid casualties!

REAR PANEL



❶Fan

Fan outlet.Blowing from the front to the back for heat dissipation, making sure not to block the air inlet.

❷Audio output 1/2/3/4 interface

Two types of connections to the speaker output port are also provided for Channel 1/ Channel 2/Channel 3/Channel 4.



⇨ Speakon Output

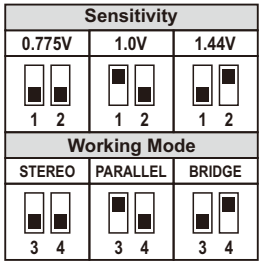
⇨NOTICE

Do not touch the port or the metal part of the wire that is connect to the port. If the speakers are connected to multiple interfaces on the same channel, it will form a well connection,please ensure that the total impedance of the speakers to be connected is not too low.Please be careful not to connect or touch it by mistake.

❸Audio input 1/2/3/4 interface

XLR 3-pin audio input interface
(INPUT'1&2&3&4)

❺Sensitivity/Working mode



❻Singal ground lift

For connecting the ground ornot

❼AC IN connector

For power

❹Sensitivity/Working mode

Sensitivity:

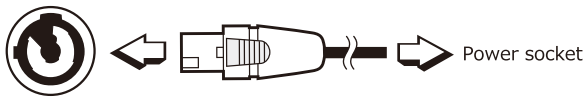
CH1/2		CH3/4	
0.775V	1.0V	0.775V	1.0V
2	2	1	1

Working Mode:

CH1/2			CH3/4		
STEREO	PARALLEL	BRIDGE	STEREO	PARALLEL	BRIDGE
6 5	6 5	6 5	4 3	4 3	4 3

Connect the power wire to the (AC IN) connector

AC IN connector Power wire



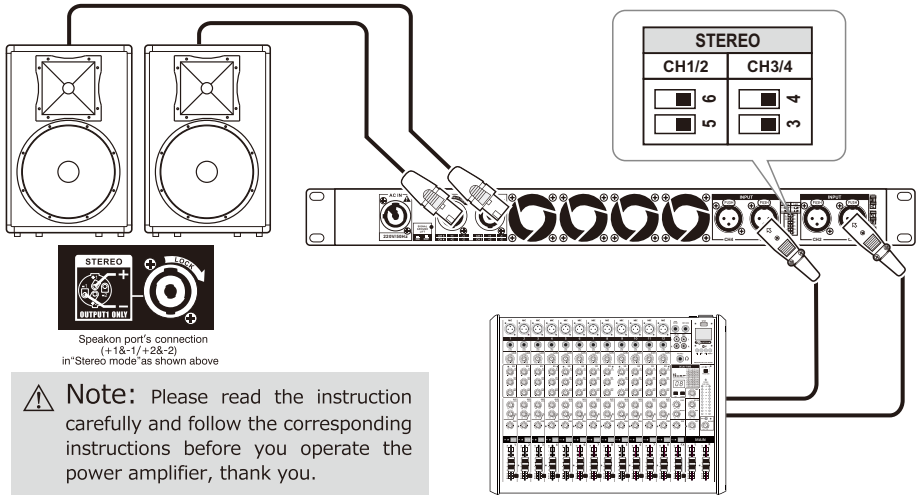
APPLICATIONS

POWER AMPLIFIER MODE INSTALLATION

STEREO MODE

This mode is factory default settings, defaults to stereo mode before it leaves the amplifier factory.

1.Confirm stereo mode again,as shown “STEREO” .
2.By linking the XLR interface for signal input,as shown.
3.Connect the speakers through the Speakon, the specific connection as shown below.

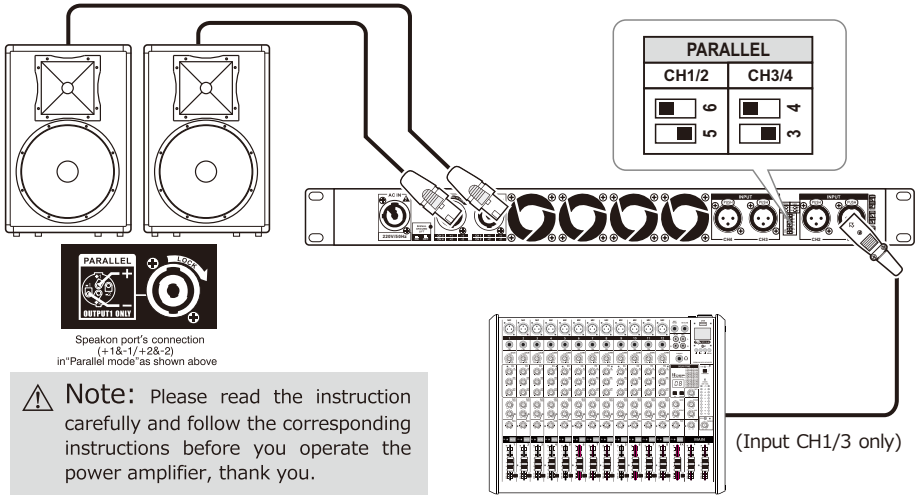


Speakon port's connection
(+1&-1/+2&-2)
in"Stereo mode"as shown above

⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.

PARALLEL MODE

1.Confirm parallel mode again,as shown “PARALLEL” .
2.By linking the XLR interface for signal input,as shown.
3.Connect the speakers through the Speakon, the specific connection as shown below.



Speakon port's connection
(+1&-1/+2&-2)
in"Parallel mode"as shown above

⚠ Note: Please read the instruction carefully and follow the corresponding instructions before you operate the power amplifier, thank you.