



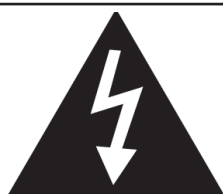
QZONE92

Instruction Manual



QZONE92 Instruction Manual

Version 1.0



CAUTION - ATTENTION - VORSICHT

**RISK OF ELECTRIC SHOCK- DO NOT OPEN
RISQUE D'ELECTROCUTION- NE PAS OUVRIR
STROMSCHLAGGEFAHR- NICHT OFFNEN**



In Compliance with the following directives: RoHS Directive (2002/95/EU) and WEEE Directive (2002/96/EU)

If this product is no longer functional or reaches the end of its usable life, please take it to an approved recycling plant.

Introduction:

Dear Customer,

Thank you for purchasing the QZONE92 2 Zone Installation Mixer. For your safety and to ensure you make full use of the product's features, please make sure you read this manual in full.

Safety Advice:

- Read this manual in full before operating this product.
- Keep this manual in a safe place for future reference.
- Heed all warnings and instructions, both in this manual and on the product.
- In the event of serious operating problems, stop using the appliance and contact your dealer immediately.
- It is prohibited to make unauthorized modifications to this unit.
- Carry and transport this product with care. Dropping this product may result in serious mechanical failure.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- The manufacturer accepts no responsibility for injury or damage caused as a result of not following the manual provided.
- This unit is for indoor use only.

Protection from Electric Shock:

- Only connect this unit to a mains socket with suitable breaker and RCD protection.
- To disconnect from the mains socket, always remove by the mains plug. Do not attempt to remove by pulling the mains cable.
- Disconnect the unit from the mains supply before cleaning. Cleaning should be carried out with a soft, dry cloth.
- Do not expose the interior of this unit to any liquids or metal objects. If a foreign object enters the unit, immediately disconnect the mains power.
- Do not operate near exposed water or in high humidity. Allow unit to adapt to surrounding temperatures before switching on, when bringing into a warm room after transport. Condensation inside the unit, may lower the product's performance and/ or cause damages.
- Choose a suitable route for all cables, ensuring trip hazards are avoided and the cables are not at risk of being crushed.
- Do not open this unit to service. There are no user serviceable parts inside. Any servicing or repairs should be carried out by a qualified engineer only. Any attempt to service or adapt this unit will leave your warranty void and could result in serious malfunction or injury.
- Should you need to replace the power fuse, do so with identical size and rating.

Protection from Fire:

- Keep unit away from naked flame sources, such as candles.
- Do not cover or block any ventilation holes (>5cm away from nearest object).
- Prevent use in dusty environments and clean the unit regularly.
- Check your AC wall socket will take the power you are applying to avoid overloading the mains supply.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Unplug the unit before servicing and when it is not in use.
- The power cord should always be in perfect condition. If the cord is squashed or damaged, switch the unit off immediately and contact the manufacturer for a replacement cord.
- The socket inlet must remain operable for disconnection from the mains.
- Never let the power cord come into contact with other cables.
- When the Power Switch is in the OFF position, the unit is not completely disconnected from the mains.

Introduction:

Contents & Unpacking:

Before beginning your initial setup, check the unit has not been damaged in transit and all parts below are supplied. In the event there is damage to the housing, cable or internal components, contact your dealer immediately.

Included in the Box:	Amount
QZONE92 Main Unit	1 piece
Mains Cable	1 piece

Introduction:

The Q Audio QZONE92 is a UK-designed, user-friendly 1U two-zone mixer, ideal for installations in bars, schools, restaurants, shops, and gyms. It offers six music input channels, with inputs 1 and 2 equipped with rear-panel RCA line inputs, which can be switched to microphone channels via a jack socket if needed. Additionally, input 1 provides a convenient front-panel 3.5mm jack for easy connection to MP3 players and mobile devices. The mixer also features two dedicated microphone inputs with a 2-band EQ, accessible via 1/4" jack plugs. The main output includes volume, bass, and treble controls and can deliver either a balanced or unbalanced signal to suitable amplifiers. The zone output has its own volume control and allows for routing either input channels 1-5 or the master volume via a mono balanced output, enabling flexible distribution of audio sources or volume levels across different areas. All music inputs and outputs have rear-panel volume controls, allowing settings to be established during installation that remain secure once rack-mounted. The unit also includes a line input for emergency announcements, which mutes all music when activated. A compatible relay alarm can be connected, allowing automatic muting in the event of an alert.

Features:

- Easy To Use Zone Mixer
- Compact 1U 19" Rack Mount Design
- 2 Microphone Inputs
- 6 Line Inputs
- 2 Band EQ For Main Output
- Emergency Input & Mute Facility
- 12V Phantom Power for Condenser Microphones

Technical Specifications:

Product	QZONE92
Signal/ Noise	> 82dB (Line)
Crosstalk Damping	> 65dB (Line)
THD	< 0.05% (Line)
Frequency Response (LoZ w/o HPF)	20Hz - 20kHz
AC IN (EU Version)	AC220-250V ~ 50Hz
AC IN (US Version)	AC110-120V ~ 60Hz
Power Consumption	max. 18W
Dimensions	483mm x 44.5mm x 183.5mm (H x W x D)
Weight	2.2kg

Product Configuration Setup:

Installation Guidelines:

- Install the unit in a well-ventilated location, where it will not be exposed to high temperatures or humidity.
- Placing and using this unit near heat-generating sources will affect its performance and may even damage the unit.
- The unit can be mounted in 19-inch racks. Attach the unit using the 4 screw holes on the front panel. Be sure to use screws of the appropriate size (screws not provided).
- Take care to minimize shocks and vibrations during transport.
- When the mixer is installed in a rack, make sure the rack is well ventilated, to keep the unit as cool as possible.



Warning: Before plugging the AC Cord in the wall outlet, check whether the AC mains voltage and frequency is compatible with this product. If the specified voltage or AC plug do not match local conditions, do NOT plug the AC cord into the wall outlet and contact your dealer.

Operation Basics:

Connections:

When connecting this unit to AC mains, please note:

- Check whether the AC mains voltage and frequency matches the product's specification (rear panel). If the specified voltage does not match your AC plug, do NOT plug it in and contact your dealer immediately.
- Do not operate the unit without the earth ground cord connected.

To ensure good audio signal connections, always use good cables. Poorly soldered cables may result in loss of sound quality or intermittent audio signals.

Powering Up:

To protect your equipment, it is important you follow the proper power-up sequence. Follow the procedure below:

- Turn down all output volume controls of any equipment in your audio system.
- Switch on your audio sources first (Tuners, CD Players, PC's etc.)
- Switch on this unit and set it to the desired audio source.
- Turn up the audio level on your sources if such controls are provided.
- Set the MAIN and ZONE volume controls of this unit to a low level.
- Make adjustments to all volume settings as needed.

For switching off, complete the sequence in reverse, always switch this unit off before the connected audio sources.

Use:

Level setting mistakes are one of the most common reasons why equipment is not performing as desired. For setting levels, please follow these two guidelines:

- Avoid distortion by leaving some headroom. Ensure audio inputs are never overrun. This can be monitored by looking at the level meters and displays.
- Use as little attenuation as possible to avoid unnecessary amplification.

By following these steps, you are marking a levelling window that the operator must match to achieve a good sound with as little distortion and noise as possible.

Cleaning and Maintenance:

Clean by wiping with a damp cloth. Avoid getting water inside the unit. Do not use volatile liquids, such as benzene or thinner, which will damage the unit.

Internal Settings:

IMPORTANT NOTICE:

THE FOLLOWING CHAPTER CONTAINS WORK ON AN OPEN UNIT- WITH CONTACTS, WIRES AND PARTS CARRYING LIVE VOLTAGE EXPOSED. ALL WORK BELOW SHOULD BE CARRIED OUT BY A QUALIFIED TECHNICIAN. IF YOU DO NOT HAVE THE REQUIRED QUALIFICATION, CONTACT YOUR DEALER TO MAKE THESE SETTINGS FOR YOU.



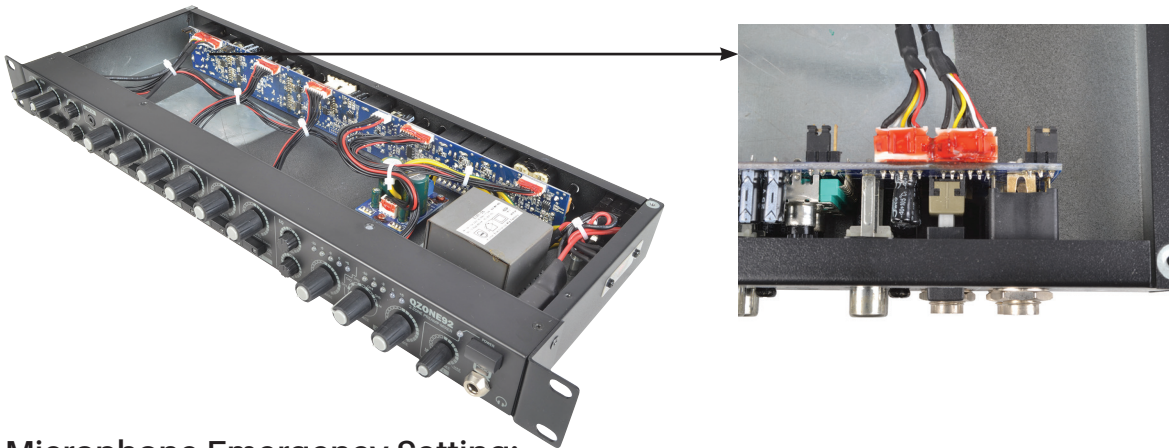
UNIT MUST BE DISCONNECTED FROM THE AC POWER SUPPLY. THE MANUFACTURER TAKES NO LIABILITY FOR DAMAGE TO HEALTH OR GOODS FROM FAILURE TO FOLLOW THE MANUAL'S INSTRUCTIONS.



To change the internal settings, the unit will need to be opened. All work must be carried out by a qualified technician. The unit must be unplugged from the AC mains before work is carried out. Remove the top cover to gain access to the internal PCBs, then set the switches and jumpers and arrange connections as shown.

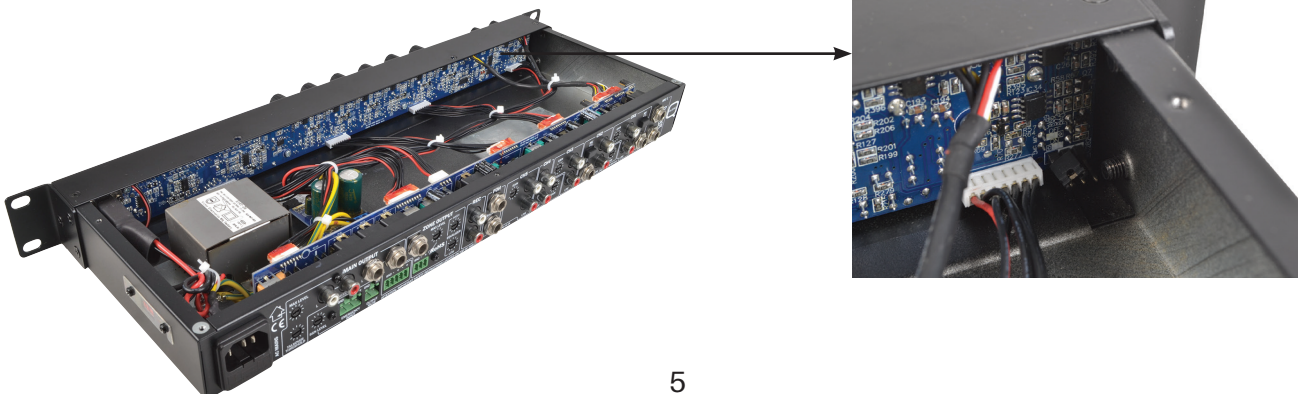
Microphone Phantom Power Setting:

If using condenser microphones, phantom power is required to the microphone inputs. In order to set up the phantom power, use the jumpers shown below on the rear PCB.



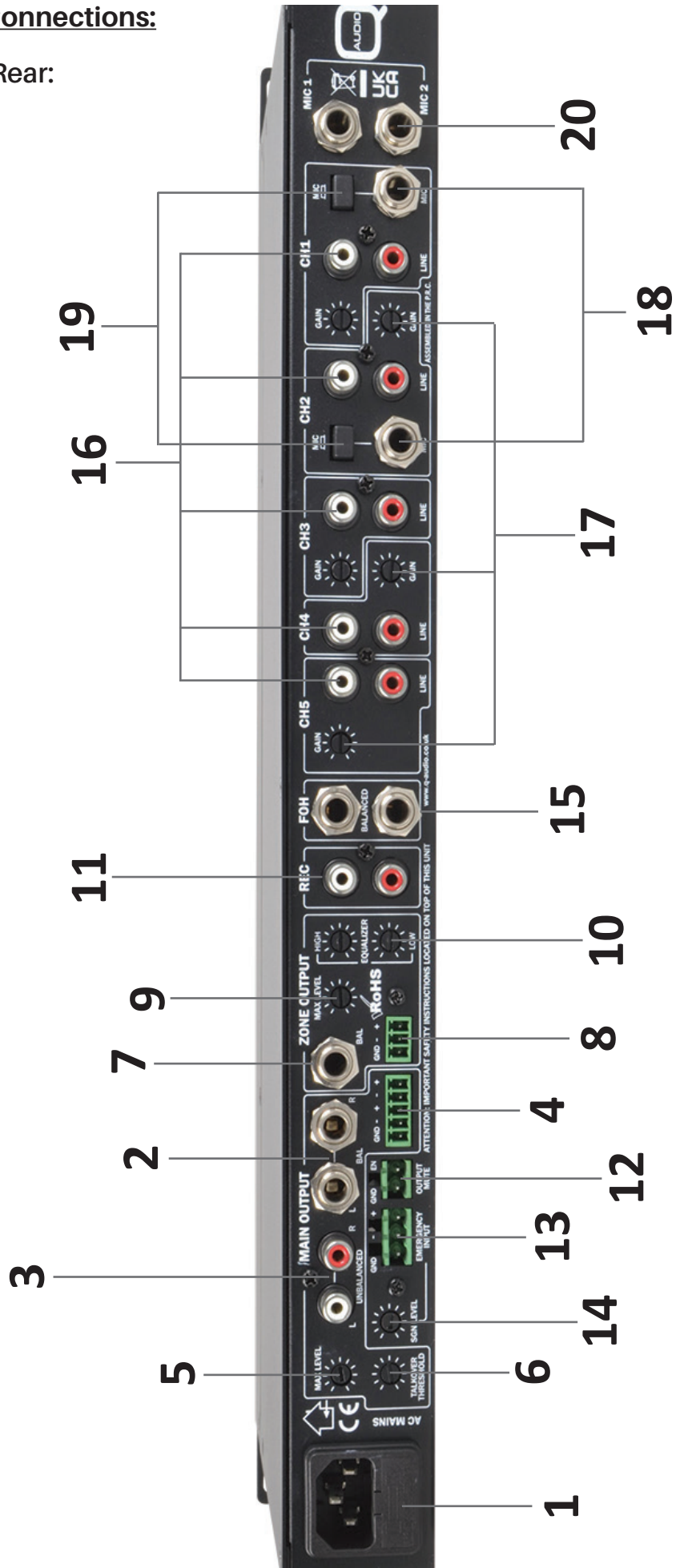
Microphone Emergency Setting:

In case of an external emergency signal muting the unit's outputs, an internal jumper can be set to mute the connected microphones. To mute the microphones, set the correct jumper on the front PCB to the 'off' position. To allow the microphones to be used for announcements over the emergency signal, switch the jumper 'on.'



Controls and Connections:

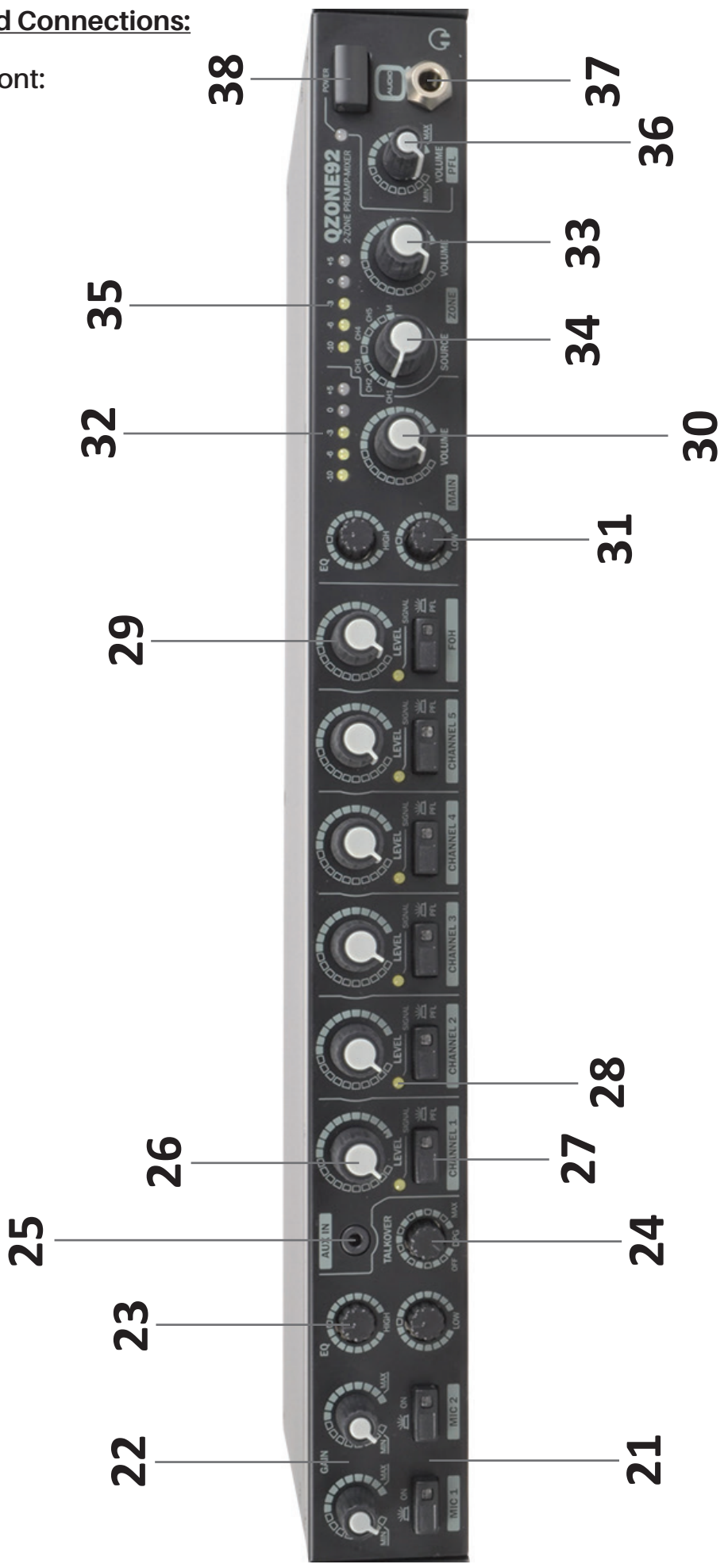
Connections - Rear:



No.	Function
1	AC Inlet and Fuse Holder- Use AC Cord to connect the unit to the mains.
2	Stereo Main Output- Balanced Stereo 1/4" TRS output carrying the main signal controlled by (30).
3	Stereo Main Output- Unbalanced RCA output carrying the same signal as output (2).
4	Stereo Main Output- Balanced terminal block output carrying the same signal as output (2).
5	Maximum Level Setting for Stereo Main Output- Limit maximum level at outputs 2-4 to match the connected sound system. These adjustments will not be displayed by the output level meter (40) and can be made with a small screwdriver at a maximum angle of 300 degrees.
6	Talkover Adjustment for Stereo Main Output- Two controls that set the level at which talkover is enabled. The amount of damping applied when talkover is active is set by control (24). Adjustments can be made with a small screwdriver to a total angle of 300 degrees.
7	Zone Mono Output- Balanced mono 1/4" TRS Output carrying the zone output signal controlled by (33).
8	Zone Mono Output- Balanced terminal block output carrying the same signal as output (7).
9	Maximum Level Setting for Zone Output- Limits the maximum levels of outputs 7 and 8 to match the connected sound system. Adjustments can be made with a small screwdriver to a maximum angle of 300 degrees.
10	Equalizer for Zone Output- 2-Band Stereo equalizer to adjust the frequency response of the output. Adjustments made with a small screwdriver to a maximum of 300 degrees.
11	Record Output- Unbalanced Stereo output carrying the same signal as the main outputs (2-4). Used for recording to an external device. The main volume control (30) does not affect this output.
12	Music Mute Input- Terminal block which allows you to remotely mute all output signals.
13	Emergency Input- Auto-sensing, balanced terminal block input which allows connection to an emergency evacuation system. Once a signal is present, all other outputs (including microphones 23 and 25) will mute and an emergency message will play.
14	Emergency Volume Control- Sets the level of the emergency signal output through outputs 2-4 and 7-8.
15	FOH Input- 1/4" TRS balanced stereo input specifically designed for a stage mixer output. Useful for stereo source replay and live music being played from the same system. Routed to input Channel 6.
16	Line Inputs- RCA Connectors that provide line-level signals to the assigned channels. CH1 and CH2 can be switched to microphone sensitivity using switches (19).
17	Gain Control for Input Channels- Allows the sensitivity for every line input to be adjusted, allowing installer to preset levels.
18	Mic Input for CH1 and CH2- Balanced 1/4" TRS Connectors, suitable for dynamic microphones only. To route these inputs to CH1 or CH2, the relative source selector switch (19) must be pressed.
19	Source Selector Switch (CH1 and CH2)- Allows you to switch the input source between the connected Line Source (16) and the microphone input (18).
20	Mic Input for MIC1 and MIC2- Balanced 1/4" TRS Connectors. Can be internally set to carry phantom power.

Controls and Connections:


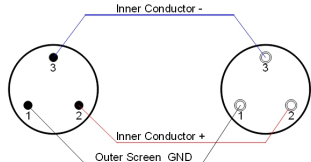

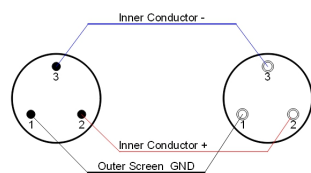

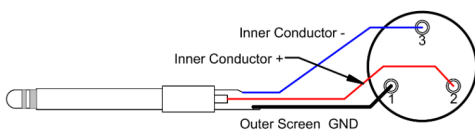

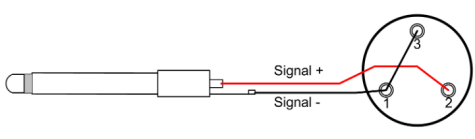

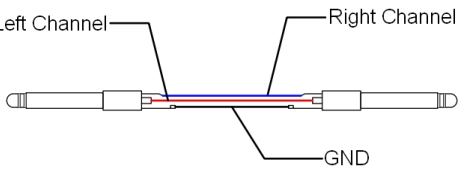


Controls - Front:

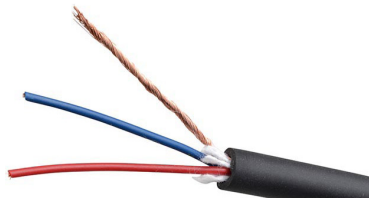


No.	Function
21	Microphone On/ Off Switches for MIC1 and MIC2.
22	Level Control for MIC Inputs- Adjust the volume individually for MIC1 and MIC2.
23	Microphone Equalizer- Adjust the tonal balance of both mics, in three voice-specific frequency bands with an adjustment range of +/-12dB.
24	TALKOVER Damping Control- Controls the amount of damping applied when TALKOVER mode is in use. Clockwise turn for more attenuation.
25	AUX Input for Channel 1- 3.5mm Mini TRS Stereo Socket which allows the connection of external media sources. Once inserted, the rear panel inputs for Channel 1 are disabled and the connected sound source is active.
26	Level Control of Input Channels- Adjustment of channel levels.
27	PFL Switch for Input Channels- Assigns the channel to the headphone bus for pre-fader listening (PFL) via the headphone output (37). LED indicates the pressed position.
28	Signal/ Peak LED- Illuminates when an input signal of more than -30dB is present, turns red when an input signal of 0dB is reached. This helps you see which channels have a signal present and set rear-panel gain controls (17) for proper gain balance.
29	FOH Level Control- Adjusts the volume of the balanced stereo FOH input (15).
30	Main (Stereo) Output Level Control- Determines the main output level present at outputs 2-4.
31	Equalizer for Main (Stereo) Output- 2-band stereo equalizer to adjust the frequency response of the output.
32	Main (Stereo) Output Level Meter- Displays the output level of the stereo main output (2-4). The rear-side maximum level control (5) is not displayed on this meter.
33	Zone (Mono) Output Level Control- Determines the main output level of outputs (7-8).
34	Zone Source Selection Switch- This rotary switch allows you to use the master mix bus (same signal as carried by the stereo master outputs 2-4) or any of the assigned source signals to the inputs 1-5, to be used as the source for the Zone Output.
35	Zone (Mono) Output Level Control- Determines the output present at (7-8).
36	PFL Level- Determines the signal volume at the headphone output (37).
37	Headphone Output- a 1/4" TRS Connector to connect headphones.
38	Power Switch- Switches the unit on and off.

Connections:

This unit uses some of the connector types shown in the table below. To ensure proper operation, make sure to use good connectors and cables. Balanced operations are preferable over unbalanced connections, where applicable. If unbalanced connections are used, avoid exceeding 2m of cable length for this connection.

	Structure	Balanced Connection	Unbalanced Connection
		RED= 2 BLACK= 3 SHIELD= 1	RED= 2 SHIELD= 1+3
		RED= 2 BLACK= 3 SHIELD= 1	RED= 2 SHIELD= 1+3
		RED= TIP BLACK= RING SHIELD= SLEEVE	RED= TIP SHIELD= SLEEVE+RING
		N/A	RED= TIP SHIELD= SLEEVE
		RED= TIP BLACK= RING SHIELD= SLEEVE	N/A
		N/A	RED= TIP SHIELD= SLEEVE



2- CONDUCTOR SHIELDED CABLE
(BALANCED CONNECTIONS)



1- CONDUCTOR SHIELDED CABLE
(UNBALANCED CONNECTIONS)

Disposal of the Unit:

Environmental Advice (Disposal of Unit):

This unit is built to conform to the ROHS Standards and the WEEE Directive 2011/ 65/ EU of the European Parliament and of the Council of the European Union. Under these regulations, the product shall not be discarded into regular garbage at the end of its life, but shall be returned to authorized recycling stations.

Correct Disposal of this Product:

Waste Electrical and Electronic Equipment

Applicable in the European Union and other European Countries with separate collection systems.



This marking shown on the product or its literature, indicates it should not be disposed with other household waste at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of waste and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased the product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Thank you for taking the time to read this manual.

For further enquiries, please contact us at:

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