QAUDIO QMEDIAMIX52

Instruction Manual

QMEDIAMIX52 Instruction Manual

Version 1.0
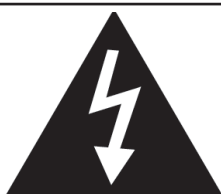
	CAUTION - ATTENTION - VORSICHT	
⚡	RISK OF ELECTRIC SHOCK- DO NOT OPEN RISQUE D'ELECTROCUTION- NE PAS OUVRIR STROMSCHLAGGEFAHR- NICHT OFFNEN	⚠

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 QMEDIAMIX52 5 Channel Audio 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
QMEDIAMIX52 Main Unit	1 piece
Mains Cable	1 piece
FM Antenna Adaptor	1 piece
IR Remote Control	1 piece
Bluetooth Aerial	1 piece

The Q Audio QMEDIAMIX52 media installation mixer is a versatile audio solution featuring three stereo inputs, two microphone inputs, and a multimedia player with Bluetooth, FM tuner, and USB connectivity.

The mixer includes two stereo inputs with pre-set signal LEDs, rear-panel gain controls, and front-panel level adjustments. A 3.5mm front jack input provides easy connection for tablets and phones. Two microphone inputs, located on the rear with 1/4" jack connectors, feature a 2-band EQ for voice enhancement and "on-air" switches. The auto talk-over function smoothly lowers music volume when the microphone is in use.

The built-in media player supports USB drives up to 16GB (about 2000 songs) and allows for easy file/folder browsing, MP3 tag display, sequential or random play modes, and elapsed/ remaining time settings. The FM tuner includes RDS for station display. A handy jingle player is also included, capable of holding up to three jingles, which can be scheduled or triggered via front-panel buttons – ideal for announcements and advertising.

For outputs, the mixer offers two independent stereo outputs with individual level controls. Output 1 includes a front-side 2-band EQ and a 10-LED level meter, while Output 2 has rear-side tone control, a mono switch, and a 100Hz high-pass filter. Both outputs come with balanced TRS and Phoenix connectors as well as unbalanced RCA options.

Additional features include an emergency input, which overrides the main output for emergency signals, and an output mute contact for external muting control. The headphone section offers volume adjustment and a 6.3mm stereo jack on the front.

A feature-rich mixer designed for installations in bars, restaurants, schools, and other venues.

Features:

- 2 Stereo Line Inputs, 2 Microphone Inputs
- Bluetooth Receiver, USB and FM Tuner
- Rear and Front Gain Controls for Line Inputs
- Front Panel 3.5mm Stereo TRS Input
- Adjustable Auto Talk-Over
- MP3 Tag Readout on Large LCD Display
- Two Stereo Main Outputs with Independent Level Control
- Rear-Side Adjustable Maximum Level Control for each Output
- Balanced TRS & Phoenix Output Connectors for Both Outputs
- Emergency Mute and Emergency Message Connections
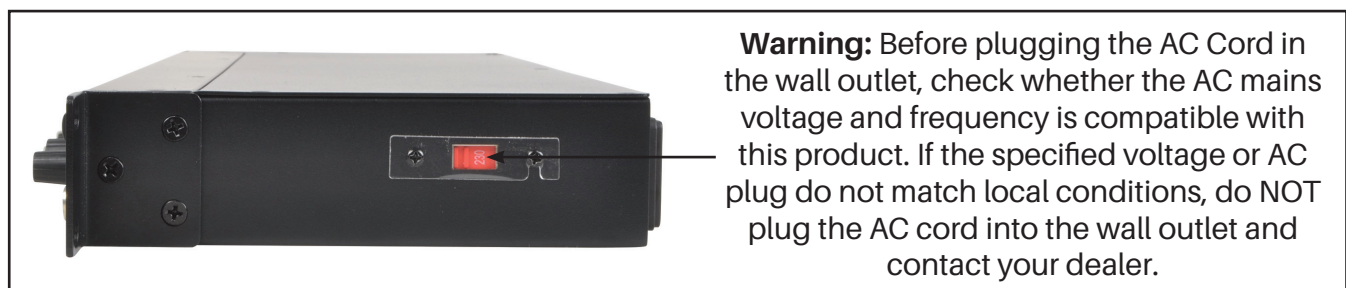- Headphone Section with Volume Control
- 19" Rack Mountable

Technical Specifications:

Product	QMEDIAMIX52
Signal/ Noise	> 82dB (Line)
Crosstalk Damping	> 65dB (Line)
THD	<0.05% (Line)
Frequency Response	20Hz - 20kHz
AC IN (230V Setting)	AC220-250V ~ 50Hz
AC IN (115V Setting)	AC110-120V ~ 60Hz
Power Consumption	max. 18W
Dimensions	483 x 45 x 152mm
Weight	2.6kg

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 2 mounting panels that attach to the front of the unit. 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.

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.

Emergency Mic Jumper Settings:

☐■ ON

■☐ OFF (DEFAULT)

MIC Emergency:
Determines whether the mics remain active when an emergency signal is present at the emergency input. Default Setting: Active. Move jumper to de-activate internal mics in emergency.

Antenna Mounting:

To achieve acceptable Bluetooth reception at a distance, the product features an antenna to enable a clear line of sight to the Bluetooth input. When the unit is placed on a tabletop, the antenna can be mounted directly to the rear panel without using the cable (A). When mounting the unit in a cabinet or rack, use the front mounting kit, by connecting the cable to the rear mount and the antenna to the cable (B).

A

B

Using your Product- The Basics:

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 audio mixer.
- If applicable, switch on any audio processor between the mixer and amplifier(s).
- Turn up the audio level on your sources if such controls are provided.
- Set the mixer's audio output to a low level. Any audio processor's between the mixer and amplifier(s) should be set to a medium level.
- Turn up the volume slowly and 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.

Information on Files, Folders and Data Conventions:
The media player section built into this unit is a hardware player and is subject to various restrictions:

Media Memory Types: SD Cards and USB Sticks up to 16GB in size. Formatted in FAT32 File System and contain a maximum of 2000 files. NOTE: Larger memory sizes, external hard disks or any media with NTFS Formatting is not supported.

Media File Types: The player's replay ability is limited to MP3 Files.

File/ Folder Structure: The player only allows a two-layer folder structure. Subfolders will be ignored. Playable files located in the root layer are displayed as "ROOT", although this folder does not physically exist in the solid state memory media.

Folder Sorting: Folders are displayed in the order of their creation dates. To create a sequence, folders must be created in the sequence first, before uploading MP3 files.
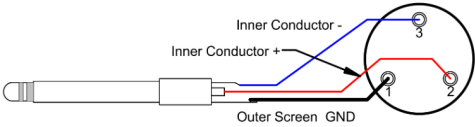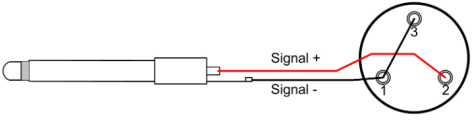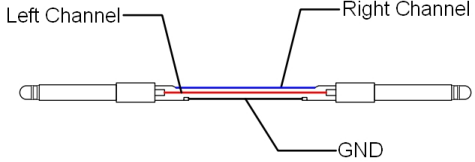
File Sorting: Files are stored alphanumerically using the first 8 digits.
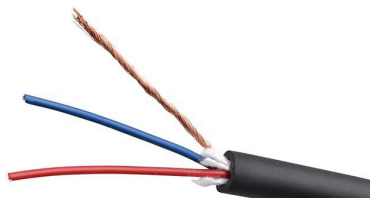
File System Cache: To allow quick access to the file directory during navigation, the player loads a copy of the file directory to its own memory, when the solid media state is inserted. A countdown will be displayed. The time required is about 4 seconds per 100 tracks; meaning the maximum 2000 tracks should take 80 seconds.

Discard Files/ Folder Names: MP3 Files are displayed with the first 30 digits of their file names in a scrolling manner; digits exceeding the first 30 will be ignored. NOTE: The display data is the file name and not the ID3 tag of the file.
Folders are displayed with the first 10 digits of their names; any exceeding digits will be ignored.

Connections:

This unit uses 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
6.35MM TRS - STEREO	Inner Conductor - / Inner Conductor + / Outer Screen GND	RED= TIP BLACK= RING SHIELD= SLEEVE	RED= TIP SHIELD= SLEEVE+RING
6.35MM TRS - MONO	Signal + / Signal -	N/A	RED= TIP SHIELD= SLEEVE
3.5MM TRS - STEREO	Left Channel / Right Channel / GND	RED= TIP BLACK= RING SHIELD= SLEEVE	N/A
RCA	Signal / GND	N/A	RED= TIP SHIELD= SLEEVE

2- CONDUCTOR SHIELDED CABLE
(BALANCED CONNECTIONS)

1- CONDUCTOR SHIELDED CABLE
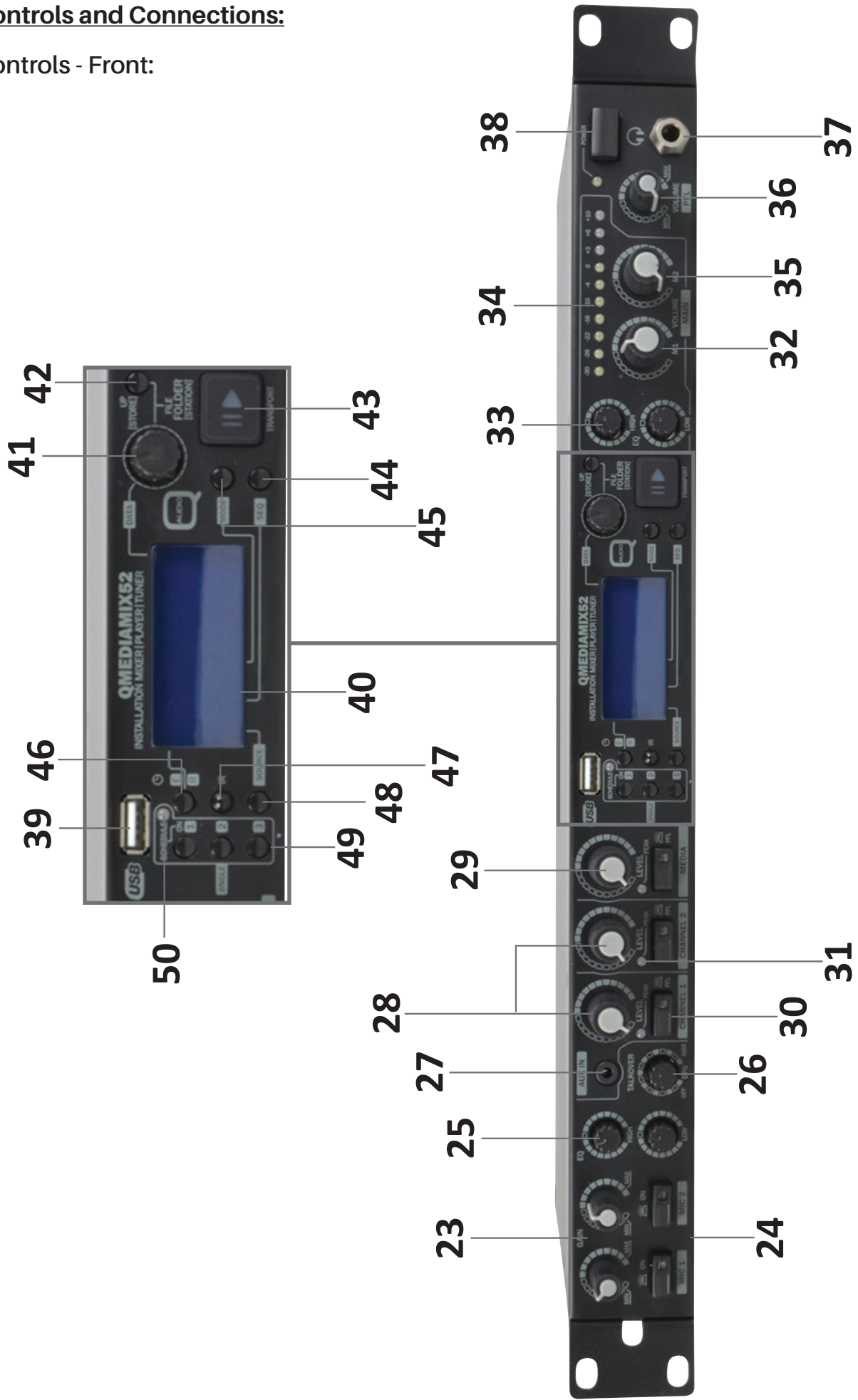(UNBALANCED CONNECTIONS)

Controls and Connections:

Connections - Rear:
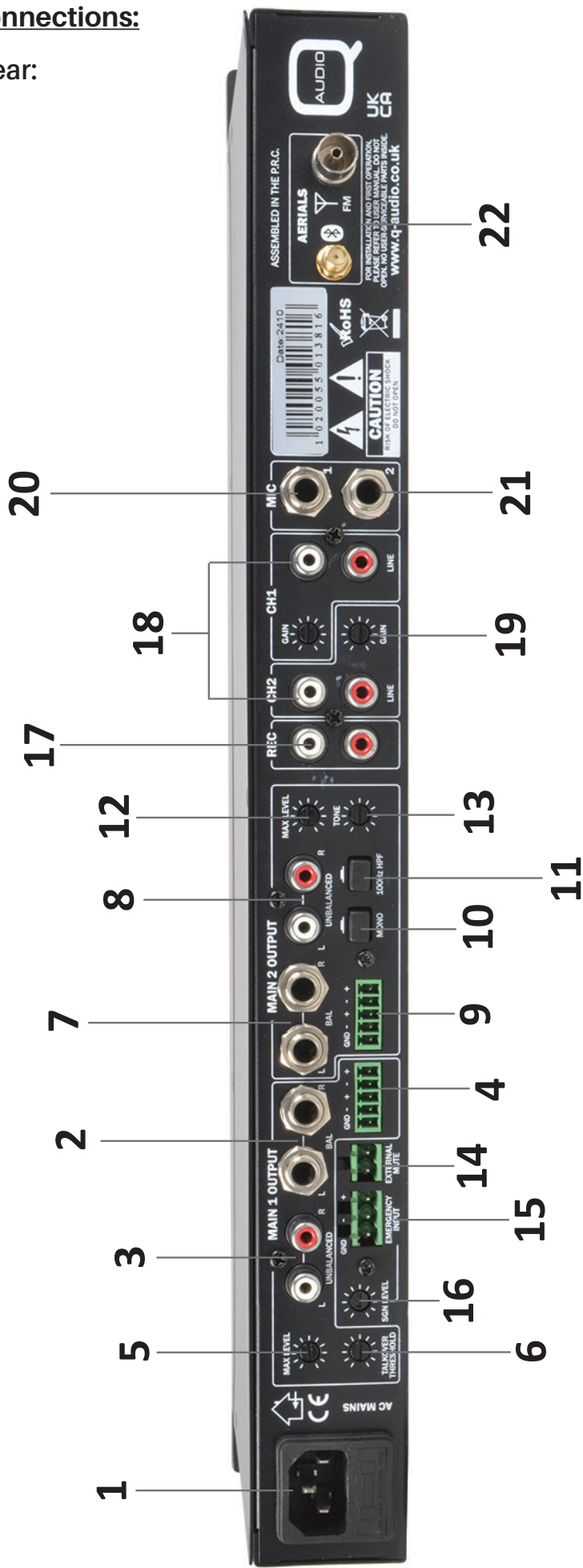
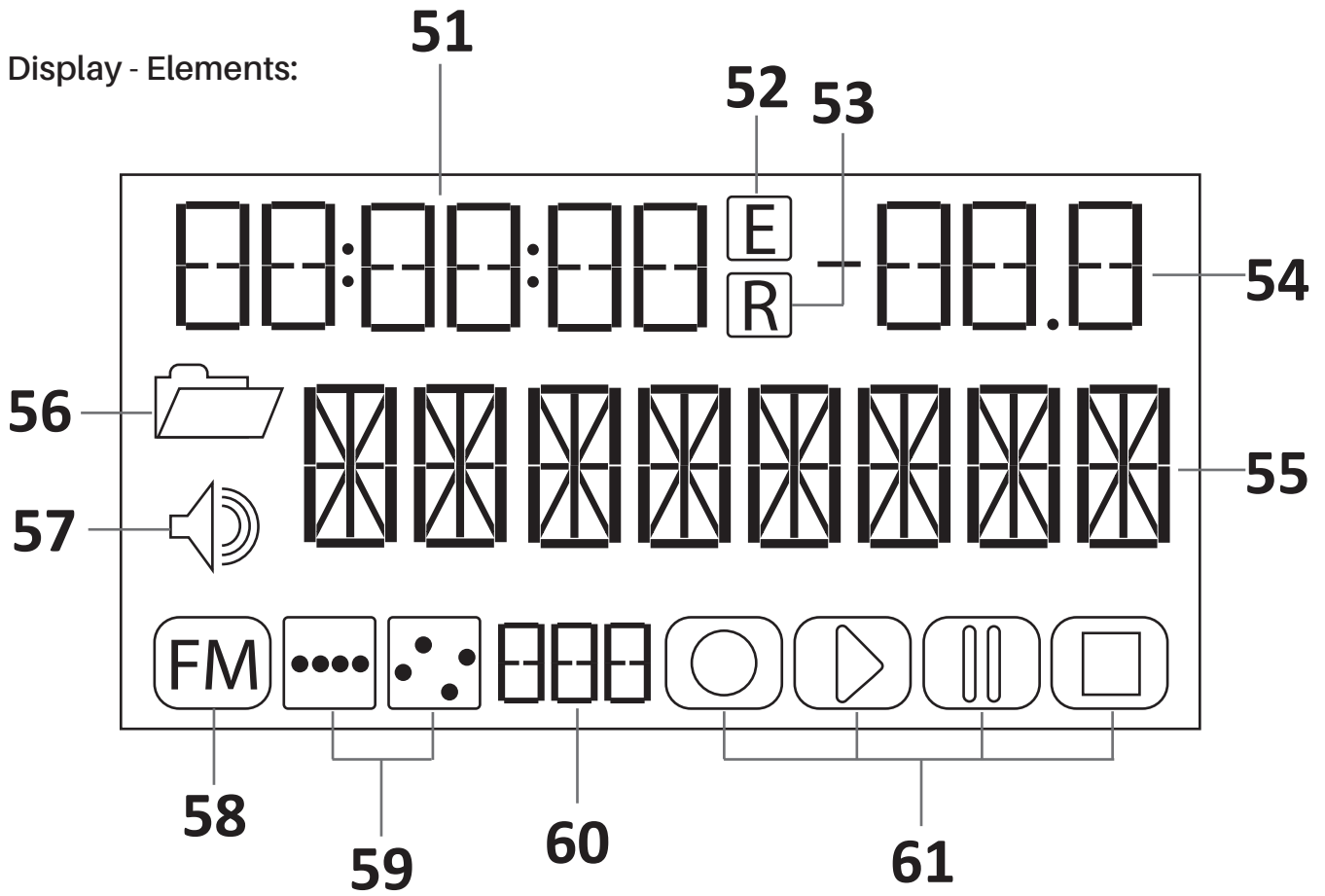| No.	Function
1	AC inlet and Fuse Holder- Use the supplied AC cord to connect the unit to the AC mains. Check voltage and frequency stated and set on the unit comply with your local AC main supply. Replacement of the internal AC mains fuse requires you to hand over the unit to qualified engineer.
2	First Stereo Main Output- A balanced stereo 1/4" TRS Output carrying the main output signal controlled by (32).
3	First Stereo Main Output- Unbalanced RCA Output carrying the same signal as (2).
4	First Stereo Main Output- This is a balanced terminal block output carrying the same signal as (2).
5	Maximum Level Setting for Stereo Main Output- Limit the maximum level at the outputs in order to match the connected sound system. Total angle is 300 degrees and adjustments can be made with a screwdriver.
6	Talkover Adjustment- Sets the level that talkover is enabled. The amount of music/ sound reduction is set by a front panel control (26). Total angle is 300 degrees and adjustments can be made with a screwdriver.
7	Second Stereo Main Output- A balanced stereo 1/4" TRS Output carrying the main output signal controlled by (35).
8	Second Stereo Main Output- Unbalanced RCA Output carrying the same signal as (7).
9	Second Stereo Main Output- This is a balanced terminal block output carrying the same signal as (7).
10	Mono Switch for Second Stereo Main Output- Sums the 2 stereo signals (L&R) to one mono signal. Present at both L&R output connectors 7, 8 and 9.
11	High Pass Filter (100Hz) for Second Stereo Main Output- Press the switch to remove low frequencies from the second stereo main output. Suitable for background music from small speakers or ceiling spakers.
12	Maximum Level Setting for Second Stereo Main Output- Limits maximum level at outputs 7, 8 and 9. Total angle is 300 degrees and adjustments can be made with a screwdriver.
13	Tone Control for Second Stereo Main Output- Shifts the frequency response. Total angle is 300 degrees and adjustments can be made with a screwdriver.
14	Music Mic Input- Terminal block input which allows you to remotely mute all output signals.
15	Emergency Input- Auto-sensing, balanced terminal block input which connects to an emergency evacuation system. Unit can be set to include or exclude microphone signals from this muting process, see 'Microphone Emergency Settings.'
16	Emergency Volume Control- Allows you to set the level the signal fed into the emergency input (15) will be replayed at the two master outputs (2-9).
17	Record Output- Unbalanced stereo output carrying the same signal as the main output, but not influenced by the main volume controls. Used for recording to an external source.
18	Music Channel 1 & 2 Inputs- RCA Connectors that provide line-level signals to the assigned channels. Use control (19) to adjust input sensitivity.
19	Gain Control for Music Input Channels- Allows sensitivity for every line input to be adjusted, allowing outputs to be mixed at balanced levels.
20	Mic Input (MIC1)- Suitable for dynamic microphones, balanced 1/4" TRS Connector.
21	Mic Input (MIC 2)- Suitable for dynamic microphones, balanced 1/4" TRS Connector.
22	Aerial Connectors- Hosts the FM aerial socket and Bluetooth aerial socket.

Controls and Connections:

Controls - Front:

No.	Function
23	Level Controls for Microphone Inputs- Allows individual adjustments for MIC 1 and MIC2, which relate to rear side inputs (20/ 21).
24	Microphone On/ Off Switches- Switches MIC1 and MIC2 on and off.
25	Microphone Equalizer- Adust tonal balance of the microphone inputs in two voice specific frequency bands. Affects both mics.
26	Talkover Damping Control- Controls the amount of sound reduction applied to the program signal when the mic is in use. Full clockwise turn will completely suppress the program signal. Turned counter-clockwise turns the talk-over function off. The threshold level for this function can be set by control 6.
27	AUX Input for Music Channel 1- 3.5mm mini TRS stereo socket to connect sources such as MP3 players, without removing this unit from its mount. When a plug is inserted, rear inputs for music channel 1 are disabled.
28	Level Control of music channel 1 & 2- Allows adjustment of the respective channel level.
29	Level Control of Media Player/ Tuner- Adjusts level of internal sources.
30	PFL Switch for Input Channels- Assigns channel to the headphone bus for PFL (Pre-Fader Listening).
31	Peak LED- Illuminates when an input signal with more than 0dB of signal level is present. This helps to set the rear-panel gain controls (19) for gain balance.
32	First Stereo Main Output Volume Control- Sets overall level of first stereo main output. Individual level balances can be set using controls 23, 28 or 29.
33	First Stereo Main Output Equalizer- Adjusts tonal balance for the first stereo main output signal in two music-specific frequency bands. Second stereo main output is unaffected by these controls.
34	First Stereo Main Output Level Meter- Displays output level of the first stereo main output.
35	Second Stereo Main Output Volume Control- Sets overall level of the second stereo main output.
36	PFL Level- Determines volume of headphone output.
37	Headphones Output- 1/4" TRS Connector to connect headphones.
38	Power Switch- Switches the unit on and off.
39	USB Memory Socket- Insert a FAT32-formatted USB memory stick here. Note: USB Hard drives are not supported.
40	Media Player Display- Shows track/ folder information, time information, play status, replay mode settings and play sequence settings.
41	Data Dial- In Media Mode: Turn and Press to Select and Play Media / In FM Mode: Press and then Turn to find a frequency/ station, stop turning on station to activate the choice.
42	Store Button- Media Mode: Press to go to Folder Level, then navigate by data dial / FM Mode: Store a new station preset, choose frequency scroll mode by pressing (45). Press (46) once to display the station preset you wish to store the frequency at. Choose the preset by turning (45) and pressing (46) again.
43	Media PLAY/ PAUSE/ STOP button- Media Mode Only: Press briefly to Play and Pause. Hold for 2 seconds to STOP media. Restart by pressing the button again.
44	Play Sequence Selector- Media Mode Only: Select between straight play sequence (next song is determined by alphanumerical sorting) or random play sorting.
45	Play Mode Selector- Select between: Single Play (SPL), Single Loop (SLO), All Continuous (ACO) and All Loop (ALO).
46	Time Display- Media Mode Only: Selects between elapsed and remaining time of current track.
47	IR Receiver Sensor- When using IR Remote, make sure this sensor is unobstructed.
48	SOURCE Button- Toggles between Media Play and FM Tuner.
49	JINGLE Buttons- Available in Media Mode and FM Tuner Mode- mutes the current program to play a programmed Jingle (see page 15).
50	Scheduled JINGLE Play Mode Indicator- LED lit when the scheduled jingle play mode has been activated by pressing the J1 button.

Controls and Connections:

Display - Elements:

Remote Control - Elements:
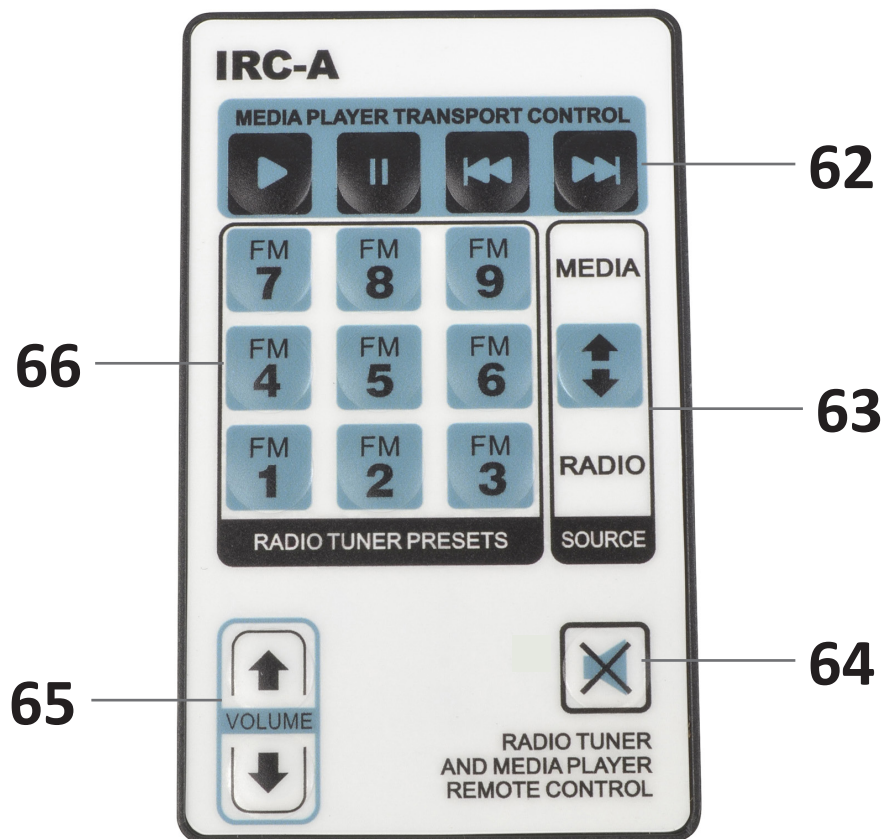
Controls and Connections:

No.	Function
51	Time Display: In Media Mode: Remaining or elapsed time are displayed, depending on setting of component (50) / FM Mode: (Station Scroll Mode)- The station preset number is displayed, (Frequency Scroll Mode)- Remains blank.
52	Time Mode Display - Elapsed (Media Mode Only): Elapsed time of current track.
53	Time Mode Display - Remaining (Media Mode Only): Remaining time of current track.
54	Numeric Data Display: Not used on this product.
55	8-Digit Clear Text Readout: In Media Mode: Name of currently playing track is shown / FM Tuner: RDS Station Name or Current Tuned Frequency is displayed.
56	Folder Name Display Indicator (Media Mode Only)- Shows Folder Name.
57	File Name Display Indicator (Media Mode Only)- Shows File Name.
58	Source Mode Indicator- Shows if the unit is in Media Play or FM Mode.
59	Play Sequence Indicator (Media Mode Only)- Shows whether unit is set to play a sequential or random sequence.
60	Play Mode Indicator (Media Mode Only)- Based on the selection made by control (49), this part of the display shows the letters "SPL", "SLO", "ACO" or "ALO".
61	Transport Status Indicators (Media Mode Only)- 3 standard symbols indicate PLAY, PAUSE or STOP status. The 1st indicator is not used in this product.

No.	Function
62	Transport Controls (Media Mode Only)- Play, Pause, Next and Previous buttons to navigate through tracks.
63	Source Button- Toggle between Media Player and FM Tuner.
64	Mute Button- Mute and Unmute Media Player Output.
65	Volume Control- Turn up/ down the audio volume of the media player.
66	FM Preset Station Buttons (FM Mode Only)- Remotely activate the stored FM station presets. Manual tuning via IR Remote is not possible.

Using your Product- Product Features:

Jingle Commercial Player:

This unit contains a jingle player with a one-shot mode for teasers and a scheduled mode for commercial purposes (like playing advertisements in a certain sequence).

How to use your Jingle Commercial Player:
* Create a folder with EXACTLY this name (inc. capital letter 'J'): Jingles
* In this folder, you will save your Jingle and Commerical files using the following name rules:
* Standard naming: jX_YY.mp3

Where: X= the number of the jingle/ commercial (1, 2 or 3).
and YY= the number of minutes "music playback" before the commercial starts playing.

For example- Scheduled Playback:
File name: j1_20.mp3, is the 1st Jingle to play, after 20 minutes of music.
Then j2_30.mp3, will play after Jingle 1's cycle + 30 minutes of music.
Followed by j3_10.mp3 which will play after all of the above + 10 minutes of music.

Manual Playback: Jingles can also be manually played at any moment, simply by pushing one of the three Jingle Buttons on the unit.

Bluetooth Replay (only versions with built-in Bluetooth Receiver):

The QMEDIAMIX52 features an in-built optional Bluetooth module. This cannot be retrofitted and may be subject to territorial restrictions.

To connect a Bluetooth source (e.g. smartphone) to your QMEDIAMIX52, follow these steps:
* Press the Source Button [18] until display shows "AUX-BT".
* Activate Bluetooth on the Source Device.
* Search/ Scan for Devices on the Source Device.
* Search "Bluetooth Board" and confirm connection request.
* Wait for single beep from the QMEDIAMIX52.
* The devices are now paired (QMEDIAMIX52 can now receive audio via Bluetooth from the device). NOTE: The QMEDIAMIX52 will only support the pairing of one device.

To Disconnect a Device:
* Tap on existing Bluetooth connection on your Source Device.
* Wait for dual-tone beep from QMEDIAMIX52.
* The devices are now unpaired and the QMEDIAMIX52 can be paired with another device.

NOTE: The maximum distance of operation between your source device and QMEDIABT will vary depending upon position of the two items, interfering signals and the antenna/ bluetooth hardware of the source device. While Bluetooth should work up to 10m distance, certain hardware combinations, geometrical setups or the presence of interfering signals can reduce this significantly. The manufacturer of this device does not grant any specific operating distance.

Remote Volume Control:
The QMEDIABT is supplied with an IR Remote Control. This does not replace the controls on the front panel of the unit, but adds convenience when operating the machine at a distance. A line of sight between the IR Remote and the sensor on the QMEDIABT is required for best performance.

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.

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:
Q-Audio (Products) Limited,
Unit 15, Rochester Airport Industrial Estate,
Laker Road, Rochester, Kent, ME1 3QX.

Website: q-audio.co.uk
Telephone: 0203 598 5164
Email: info@q-audio.co.uk