QX8PAV
Stereo Portable PA Set

Order ref: 178.858UK

User Manual

VERSION 1.0

⚠	Caution: Please read this manual carefully before operating Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing the QX8PAV stereo portable PA, which has been designed to provide a complete wire-free sound solution for a wide range of applications. Please read this manual fully to understand the various features on the QX8PAV and get the best results from this product.

Package Contents

Please check the contents to ensure the QX8PAV has been received in good condition with the following.
- Main portable PA speaker unit
- Satellite speaker with 6.3mm jack connection lead
- 2 x VHF handheld microphones
- I.R. remote control handset
- Power adaptor with appropriate Fig.8 mains lead(s)

If any accessory is missing or the product has any problems, please contact your retailer at once.

Warning

This product contains no user-serviceable parts so make no attempt to try to fix or modify this item yourself as this will invalidate the warranty. We recommend you keep the original package and proof of purchase for any possible replacement or returned demand. To prevent the risk of fire or electric shock, do not expose this appliance to rain or moisture. To prevent electric shock do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Safety: Labelling Conventions

⚡	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	⚠

⚡	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit

⚠	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Prior to connecting mains, check the supply voltage is correct and the mains lead is OK.
Avoid ingress of water or particles into the enclosure.
If the mains or D.C. fuse blows, refer the unit to qualified service personnel

Placement

Keep the unit out of direct sunlight and away from heat sources.
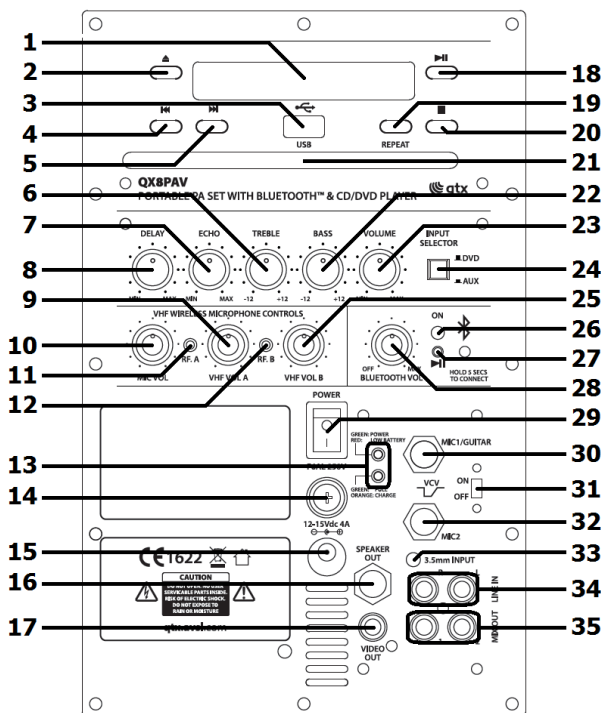Keep the unit away from moisture or dusty environments.
Mount the unit on a stable surface, 35mm pole mount or suspend using the integral flying points.
Ensure that any supporting structures have adequate load capacity for the weight of the unit.

Cleaning

Use a soft cloth with a neutral detergent to clean the cabinet, panel and controls. To avoid damage, do not use solvents.

Main unit rear panel

1. Media player display
2. Disc eject button
3. USB port
4. Previous/rewind button
5. Next/fast forward button
6. Treble EQ control
7. Echo control
8. Delay control
9. Volume - VHF mic.A
10. Volume - Microphones
11. RF indicator - VHF mic.A
12. RF indicator - VHF mic.B
13. Power & charging indicators
14. Power in D.C. fuse
15. D.C. power adaptor inlet
16. 6.3mm satellite speaker out
17. RCA composite video out
18. Play/pause button
19. Repeat button
20. Stop button
21. CD/DVD disc slot
22. Bass EQ control
23. Main volume control
24. DVD/AUX switch
25. Volume - VHF mic.B
26. Bluetooth indicator
27. Bluetooth play button
28. Bluetooth off/volume control
29. Main power on/off switch
30. 6.3mm input - Mic.1/guitar
31. VCV on/off switch
32. 6.3mm input - Mic.2
33. 3.5mm aux line input
34. RCA aux line input
35. RCA mix line output

Portability

For transport purposes, the QX8PAV main unit has a retractable handle and wheels. The satellite speaker can be stacked on top of the main unit (ensuring that the feet locate onto the posts at the top of the main unit) and a strap is provided to secure the satellite speaker to the extended handle, allowing the whole set to be rolled as a trolley.

Care should be taken to avoid uneven terrain or dragging the trolley too quickly, which may damage the wheels or cause the set to overbalance.

Setting up

The QX8PAV set is based around a main portable PA unit and a satellite speaker. Each can be free standing or mounted onto 35mmØ speaker poles. Open the rear panel on the satellite unit by removing the 4 thumb screws and use the speaker jack lead inside to connect the 6.3mm input on the satellite to the Speaker Out jack (16) on the main unit. The rear cover may then be put back onto the satellite cabinet if required. There is space inside the rear compartment for other accessories, such as microphones, leads and the remote handset.

Charging the battery and powering up

Your new QX8PAV main unit may arrive with you with the internal battery charged. Before connecting to the mains, switch the unit on and see if the power LED (13) lights green.
If this LED shows red or is not lit, you will need to charge the battery before using away from a mains supply.

There is a power adaptor supplied which connects to the main unit via the DC power adaptor inlet (15). This inlet can also be powered from another 12-15Vdc source, such as a car battery.

When connected to the mains via the power adaptor, if the main power on/off switch (29) is in the OFF position, the internal battery will be re-charged from the mains supply. This can be observed by the charging LED (below the power LED) which lights orange when charging. When the battery is full, this LED will change to green.

To power the main unit up, start with all rotary controls turned down (anti-clockwise) and turn the POWER switch on (the power LED should light). Turn BASS and TREBLE controls to point vertically (12-o-clock position). Turn up the main Volume (23) control part way and switch VCV (voice controlled volume) off. Your QX8PAV set should now be ready to operate.

Media Player

The QX8PAV has many different options for input sources and it is useful to set the controls initially using the internal media player. Ensure that the DVD/aux switch is in the "out" position (labelled "DVD") and either insert a CD, compressed audio disc, CD+G or DVD disc into the disc slot (21). The mechanism should automatically feed the disc into the player. Alternatively, plug in a USB memory stick containing compressed audio media into the USB port (3). If playback does not begin automatically, press the Play button (18) and check for playback through both speakers.
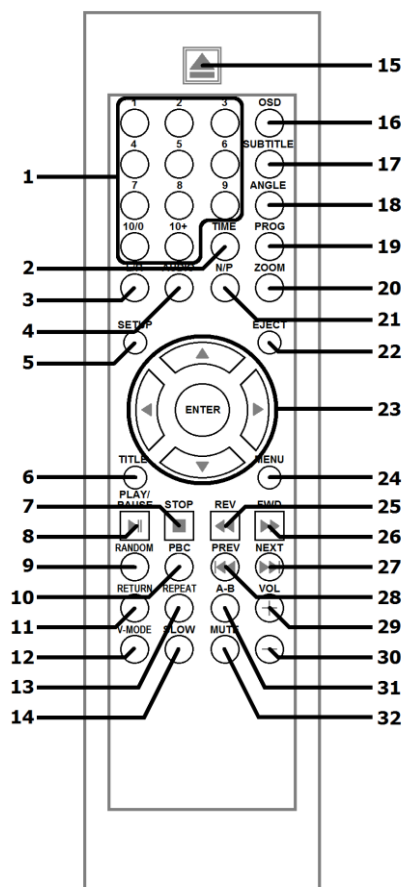
If the disc is for video playback, such as DVD or CD+G, connect an RCA video lead from the Video Out connector (17) to a TV or display with composite video input and check that the video is playing correctly.

For reference, the disc player has priority over the USB port and so the media player will search for a disc before switching to USB. The output level of the media player is adjusted via the main Volume control (23)

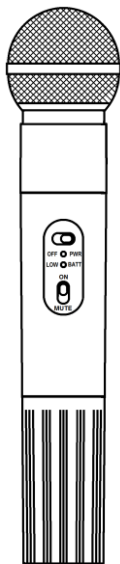The media player can be controlled by buttons on the panel controls as follows.

▲	Open/Close	Load disc in or eject disc from the player	(2)
▶❚❚	Play/Pause	Play or pause the selected track	(18)
▶▶❚	Next/FWD	Select next track or hold to fast forward	(5)
❚◀◀	Previous/REV	Select previous track or hold to reverse	(4)
■	Stop	Stop playback and reset to the beginning	(20)
REPEAT	Repeat mode	Select to repeat: None/Track/Disc	(19)

Alternatively, the media player can be operated using the infra-red remote handset.
This offers some extra functions, which are detailed below.

1. Numerical track select keys (10+ adds 10)
2. Time + numerical entry jumps to a time point
3. L/R select Left/Right/Vocal audio modes
4. Audio setup (via on screen display)
5. General setup (via on screen display)
6. Title: returns DVD playback to title screen
7. Stop (playback) and reset to the beginning
8. Play/Pause (playback of selected track)
9. Random play sequence
10. Play Back Control = numerical chapter access
11. Return back to previous selection
12. V-mode: interlaced or progressive scanning
13. Repeat (none/single/all tracks)
14. Slow motion playback mode
15. Standby on/off
16. On Screen Display on/off
17. Subtitles menu (via on-screen display)
18. Angle selection (for DVD playback)
19. Program playback sequence
20. Zoom (for DVD playback)
21. N/P selection NTSC or PAL format
22. Eject disc
23. Menu navigation and enter keys
24. Menu (via on screen display)
25. Reverse search
26. Fast forward search
27. Next track select
28. Previous track select
29. Volume up
30. Volume down
31. A-B repeat playback section (loop)
32. Mute audio output

VHF Wireless Microphones

The QX8PAV has a built-in dual VHF receiver and is supplied with 2 x handheld wireless microphones. Each handheld microphone will need to be loaded with a 9V battery (supplied) before use by carefully unscrewing the base of each and connecting the "+" and "-" terminals of the battery to the corresponding contacts inside the microphone body, taking care to observe the correct polarity.

Turn the VHF VOL A and VHF VOL B controls (9, 25) part way up (clockwise). Antennas are fixed inside the speaker and do not need to be extended.

Switch on each microphone by sliding the upper switch (labelled "OFF – PWR") to the right. The LED below the switch should light and the RF LEDs on the main unit (11, 12) should also light to indicate that carrier signals are being received. If the "LOW – BATT" LED on the transmitter lights, change the battery. Slide the lower switch ("ON – MUTE") upwards to the ON position.

Gradually increase the VHF VOL A and B controls, testing each microphone in turn for output through the speakers. The VHF microphone volumes are not affected by the main volume control on the rear panel. Take care not to incur "feedback" (howling or screeching sound through the speaker) by keeping the microphone a sensible distance from each speaker and pointing away from the speakers so that it doesn't *hear* its own output.

Turning the ECHO control (7) clockwise introduces an echo for singing and special effects. The time parameter of this effect can be adjusted using the DELAY (8) control. If required, the music level can be automatically muted when speaking into a mic by switching the VCV on (31).

When not in use, switch the wireless microphones off and remove the batteries if storing the microphones for long periods.

External Inputs

In addition to the QX8PAV's own VHF microphones, two 6.3mm jack inputs (30, 32) are provided for connecting external wired or wireless microphones, which are both governed by the MIC VOL control (10). For guitarists, MIC 1 input can accept a guitar input instead of a mic.

A 3.5mm stereo jack (33) and twin RCA inputs (34) are provided for an Auxiliary line input source such as a CD player or smartphone. To use these instead of the built-in media player, press the DVD/AUX switch in (to select AUX). The AUX input is governed by the main VOLUME control at the top of the panel. BASS and TREBLE (22, 6) can be cut by turning either control anti-clockwise or boosted by turning clockwise.

Below the twin RCA input is a twin RCA line output carrying the overall main mix. This can be fed on to further active speakers or portable PA units via a twin RCA lead.

Bluetooth™ Connection

The QX8PAV unit is fitted with a Bluetooth receiver, which is operated via a rotary control (28) and play button (27) on the rear panel. When the rotary control is turned fully off, power to the Bluetooth receiver is off.

If switched off, turn the Bluetooth rotary control clockwise to switch power on to the Bluetooth receiver. Turning the rotary control up increases Bluetooth output level – halfway is a reasonable position to start.
Press and hold the Bluetooth play button for 5 seconds and the Bluetooth indicator (26) will flash blue. If the playback source is already paired, the connection will be made with the QX8PAV and a chime will sound to confirm this.

If not paired, press the play button briefly again to see the LED flash between blue and red.
At this point, the Bluetooth receiver is made visible to all Bluetooth devices in range.
Scan for Bluetooth devices on your playback source and check for a device called "bluetooth" (lower case). Select this device and opt to connect and your sending device should state that it is connected to "bluetooth" for audio output and the LED should flash blue and a beep will confirm the pairing.

Play audio from your sending device and check for output through the QX8PAV speakers.
If there is no output from Bluetooth, check if there is more than one device in range called "bluetooth"

In the eventuality that more than one device is called "bluetooth", try each device in turn until the QX8PAV main unit is found. Check also that the volume level is turned up on the sending device.

Once audio is playing through the speakers from Bluetooth, adjust the rotary control (28) to the required volume.

The QX8PAV Bluetooth receiver has duplex Play/Pause control over the sending device.
Press the Bluetooth button on the rear panel to remotely pause or resume playback from the sending device. This is useful when the audio is played from a phone in a pocket or on an armband or from a PC or Mac computer.

Bluetooth on the QX8PAV can only pair to a single device at any one time and should be operable over a range of 5 to 8 metres.

Turning the rotary control fully down clicks the power off and shuts down the Bluetooth receiver.

Specifications

Power supply	Internal battery or 12/15Vdc @ 3A mains adaptor (supplied)
Main driver	200mmØ (8") main unit and satellite
Impedance (each)	4 Ohms
Amplifier output	50W main unit, 50W satellite
Controls	Delay, Echo, Treble, Bass, Volume, VHF A & B volume, Bluetooth, VCV
Battery life	Up to 8 hours
Inputs	2 wired mic (jack) and aux (3.5mm jack or 2 RCA)
Bluetooth version	2.1
VHF Carrier frequencies	174.1MHz + 175.0MHz
Output connections	Composite video, line audio, satellite speaker
Audio source	Multi-format disc player, USB, Bluetooth™
Disc format	VCD, DVD, CD+G and compressed MP formats
Batteries : VHF transmitters	9Vdc PP3
Dimensions	275 x 440 x 290mm (each cabinet)
Weight : satellite speaker	5.5kg
Weight : main unit	8.74kg

Troubleshooting

No output and no LEDs lit	Check POWER switch is on
	Check battery is not drained fully
	Check mains lead is connected
	Check mains or D.C. fuse hasn't blown
Power LED lit but no VHF output	Check 9V batteries in wireless transmitters
	Check wireless transmitters are switched on
	Check that handheld transmitters are not switched to MUTE
	Check MIC VOLUME is not turned down
	Check RF A and RF B LEDs for radio signal
Music level cutting out	Check that VCV is not switched on (will mute upon mic. signal)
Power LED lit but no media player output	Check disc is inserted properly (use eject button if necessary)
	Make sure DVD/AUX button is set to the out position (DVD)
	Check disc has correct media type – DVD, CD, CD+G, audio
	Check USB has standard compressed audio files on
	Check volume setting on the remote control handset
	Check VOLUME is not turned down
Power LED lit but no sound from external inputs	Check leads are OK and connected properly
	Check VOLUME or MIC VOLUME control is not fully down
	Make sure DVD/AUX button is set to the in position (AUX)

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Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

Errors and omissions excepted.
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