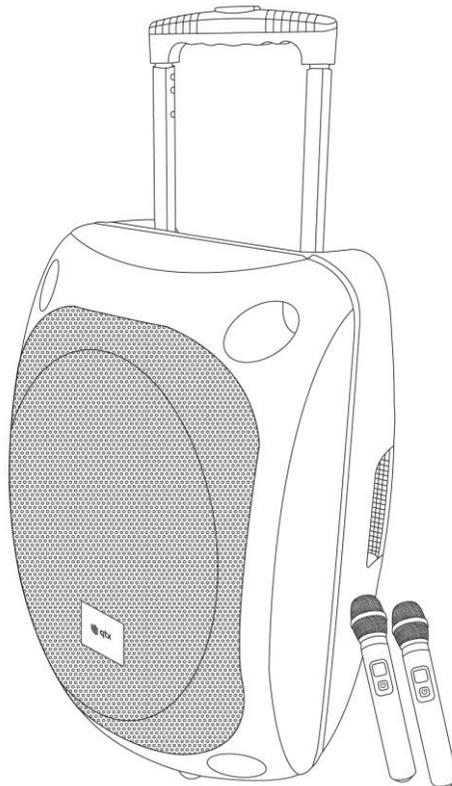


QOVA

Portable PA Units

Order ref: QOVA-12PA (178.883UK)

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 QOVA portable PA unit. Please read this manual prior to use to avoid damage to the item.

This versatile portable PA unit is packed with features in a compact, manageable enclosure and is suitable for a wide array of applications ranging from public address for presentations to outdoor karaoke.

Package Contents

Please check the contents to ensure that the product has been received in good condition.

- QOVA portable PA unit
- 2 x UHF handheld microphones
- Mains power lead(s)
- IR Remote control for media player

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

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.

Warning

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 any service issues to qualified service personnel.

Safety

Prior to connecting mains, ensure that the supply voltage is correct and the mains lead is in good condition.

Avoid ingress of water or particles into the enclosure.

If the mains or D.C. fuse blows, refer the unit to qualified service personnel

If the VHF microphones are to be unused for a long period of time, remove the batteries and store for later use.

Placement

Keep the unit out of direct sunlight and away from heat sources.

Place the unit in an upright position during use and storage.

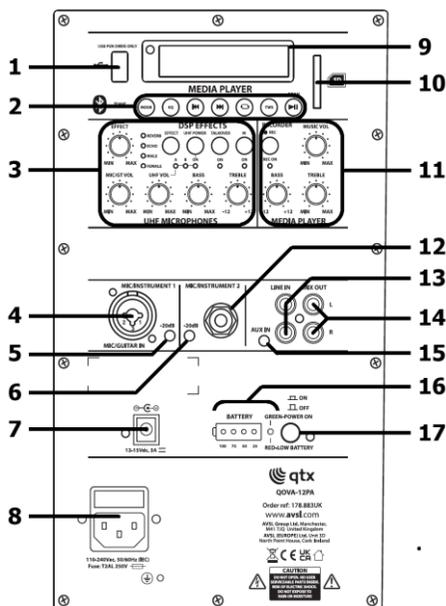
Keep the unit away from moisture or dusty environments.

Cleaning

Use a soft cloth with a neutral detergent to clean the cabinet, panel and controls.

To avoid damage, do not use solvents to clean this equipment.

Rear Panel Layout



- 1.USB input
- 2.Media player mode/transport controls
- 3.Microphones & Effects section
- 4.MIC/instrument 1 input - 6.3mm/XLR
- 5.-20dB pad switch MIC/INSTRUMENT 1
- 6.-20dB pad switch MIC/INSTRUMENT 2
- 7.12-15Vdc power input jack
- 8.IEC mains inlet & fuse holder
- 9.Media player display
- 10.SD card slot
- 11.Media player/recorder section
- 12.MIC/instrument 2 input - 6.3mm jack
- 13.RCA line input
- 14.RCA MIX OUT connectors
- 15.3.5mm AUX line input
- 16.Power and charge indicators
- 17.Power on/off switch

Connections

Your new QTX QOVA portable PA unit may arrive with you with the internal battery charged. Before connecting to the mains, switch the unit on and check the POWER LED. If it is green, there is charge in the battery. If it is red, then you will need to charge the battery before using away from a mains supply (see “**Charging the battery**” below)

If any wired microphones, electronic keyboards or instruments with pickups (such as guitars etc.) are being used with the QOVA portable PA, connect these to the MIC/INSTRUMENT 1 input (4) by XLR or 6.3mm jack and to the MIC/INSTRUMENT 2 input (12) by 6.3mm jack. For instruments and inputs with higher output than microphones, it may be necessary to press in the -20dB pad button (5, 6) to avoid the signal overloading the input.

There are also 3.5mm stereo (15) and L+R RCA (13) connectors for a line input, such as CD player, mp3 player, PC, electronic keyboard etc.

Another pair of RCA connectors (14) are included for sending the line output of all inputs to a further active speaker or amplifier to expand the sound system if required.

Connect the QOVA portable PA unit to the mains using the appropriate mains IEC lead supplied. You can otherwise connect the DC input (21) at the rear to an external 12-15Vdc supply, such as a car battery, or use the internal battery if charged.

Power Up

Turn all EFFECT, MIC/GT VOL, and UHF VOL controls fully down (anti-clockwise) and press the POWER switch (17) on (the power LED should light).

All BASS and TREBLE controls should remain pointing vertically (12-o'clock position).

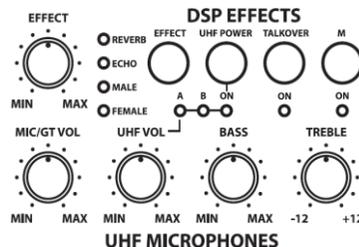
Your QR-series PA unit should now be ready to operate.

Microphones & Effects Section

The QOVA portable PA unit comes complete with 2 PLL tunable UHF handheld wireless microphones, which connect with the internal 2-channel receiver.

Insert the supplied AA batteries into the handheld microphones by carefully unscrewing the base of each and connecting the "+" and "-" terminals or the battery to the corresponding clips inside the microphone body, taking care to observe the correct polarity.

Press the UHF POWER switch to activate each receiver and the ON LED will light. Switch on each handheld microphone by pressing and holding the single front button until the display illuminates, showing the battery level and carrier frequency in MHz. The A and B LEDs show when the QOVA is receiving UHF wireless signals from each microphone transmitter.



Gradually increase the UHF VOL control and speak into each microphone to check the transmission and then adjust to the required volume. The adjacent BASS and TREBLE controls can cut or boost low or high frequency content to adjust the tone character of the UHF microphones and any inputs to MIC/INSTRUMENT 1+2. The vertical (12 o'clock) position is neutral tone (no boost or cut).

To help avoid cross-interference with other UHF products, it may be necessary to tune to different carrier frequencies. Double pressing the button on the handheld microphone steps through 15 possible channel options for each transmitter. QOVA automatically recognizes the new channel and sets the receiver to that channel. The relative UHF carrier frequencies are listed opposite, with Channel 4-15 in red. If channel 4-15 is selected, the user must have a PMSE license from OFCOM to operate on these carrier frequencies, since they are in the Duplex Gap band. Channels 1-3 are in the license-free band and do not require a license.

Channel	Blue (MHz)	Orange (MHz)
CH1	864.3	863.1
CH2	864.6	863.4
CH3	864.9	863.7
CH4	828.7	823.0
CH5	829.0	823.3
CH6	829.3	823.6
CH7	829.6	823.9
CH8	829.9	824.2
CH9	830.2	824.5
CH10	830.5	824.8
CH11	830.8	825.1
CH12	831.1	825.4
CH13	831.4	825.7
CH14	831.7	826.0
CH15	832.0	826.3

Wired microphones or instruments connected to MIC/INSTRUMENT 1+2 inputs are governed by the MIC/GT VOL control. Gradually increase this level whilst speaking into the microphone or playing the instrument to check these inputs in the same way as for the UHF microphones.

Wired and wireless microphones can be set to suppress the output of any music from the media player or line inputs by pressing in the TALKOVER button (the LED will light when this is activated). Press this button again to deactivate the TALKOVER function.

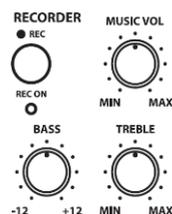
The UHF microphones and the wired MIC/INSTRUMENT 1+2 inputs are also served by a DSP section for reverb, echo and pitch shifting effects. Press the EFFECT button to select the effect type and gradually increase the EFFECT rotary control to blend in the desired amount of special effect.

Pressing the M button plays back a pre-set sound bite of applause as an intro or sound effect.

Internal media player/recorder

The QOVA portable PA unit has an inbuilt player with USB/SD playback, FM tuner, TWS Bluetooth & Line input.

Panel controls are detailed below...



- MODE** Switches music input between USB/SD player, FM tuner, Bluetooth & Line in
- EQ** Steps through preset tone EQ profiles - Classical, Pop, Rock, Boost, or Flat
- ⏮** Momentary press for previous track / hold to decrease volume
- ⏭** Momentary press for next track / hold to increase volume
- 🔄** Select to repeat one track, all tracks or no repeat
- TWS** Press to initiate True Wireless Stereo pairing mode
- ▶ ||** Play / pause track. Hold to scan FM channels

Insert a USB memory stick or an SD card with mp3 or wma media stored on it into the relevant slot on the rear panel. Any mp3/wma files on the media will play back automatically. If not, and the LCD display shows Line In, Bluetooth or an FM frequency, press the MODE button and check that the LCD display shows that media is being read from the USB or SD device. Otherwise, press the ▶ || button or try removing and re-inserting the memory device. Increasing the VOLUME control should result in the media being played through the speaker.

The mix of inputs to the QOVA portable PA can be recorded to a USB flash drive. Insert a USB flash drive (pen drive), then select a mode other than USB playback (i.e. AUX/FM/SD/BT). Briefly press REC and the REC ON LED will flash to show that a track is being recorded. Any audio produced through the QOVA will be recorded as a numbered track on the USB device. Press REC again to stop the recording. Hold REC to begin playback of the recorded tracks, with ⏮ and ⏭ to navigate through tracks. Hold REC to revert to normal USB playback.

In FM tuner mode, the display will show the frequency of the current station or channel. Pressing and holding the ► || button for 3 seconds initiates auto-tuning, which stores all the strongest detected FM radio stations into internal memories. The stored stations can then be navigated using the ◀◀ and ▶▶ buttons.

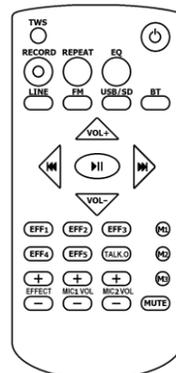
To pair a smart phone with the QOVA unit wirelessly, open the Bluetooth menu on the smart phone and press the MODE button to select Bluetooth mode. Search for **QOVA** in the smart phone's Bluetooth nearby devices and select to pair.

The Bluetooth receiver can also be set to pair via TWS (true wireless stereo) to provide a stereo Bluetooth pair for wireless playback of separate left and right channels. To start, pair the smart phone with the QOVA as described above, then switch off Bluetooth on the smart phone. Press the TWS button on the QOVA unit and then power up another QOVA unit within Bluetooth range and select Bluetooth menu and press TWS on this slave unit also. A message will state "Left channel, Right channel" and the 2 units will be paired. Enable Bluetooth again on the smart phone and it will pair to the master QOVA unit to playback the left channel audio and also play the right channel audio through the slave unit. This only applies to Bluetooth signals and other mic or line inputs are not sent to the slave QOVA unit.

Remote control

In addition to the panel controls, an infra-red remote control is provided for the media player, with buttons that mirror the controls on the rear panel of the QOVA unit. To operate the remote, remove the clear plastic tab from the remote to activate the battery.

	Power on/off for the media player
TWS	Opens True Wireless Stereo pairing
RECORD	Starts recording to USB
REPEAT	Sets repeat one track, all tracks, or none
EQ	Select Classical, Pop, Rock, Boost or Flat EQ
LINE - FM - USB/SD - BT	Select input mode
VOL+/VOL-	Adjust output level
◀◀ / ▶▶	Previous / Next track or channel
►	Play or Pause the current track
EFF1 - EFF5	Select DSP vocal effect type
TALK.O	Enable Talkover for microphones
M1-M3	Play internal pre-set sound bites
EFFECT +/-	Adjust the level of DSP effects
MIC1 VOL +/-	Adjust the level of MIC1
MIC2 VOL +/-	Adjust the level of MIC2



Charging the battery

When not in use but connected to the mains, if the POWER switch is in the *off* position, the internal battery will be re-charged from the mains supply. The QOVA has a power LED which lights green when power is on, lights red when the battery charge is low, and a row of 4 green LEDs to show the charge status (16)

Note: it is recommended to store the QOVA unit at an ambient temperature and not with the battery fully discharged.

Specifications

Power supply	110-240Vac, 50/60Hz (IEC) / external 12-15Vdc / internal battery
HF driver	25mm (1") Titanium compression driver
Main driver	300mmØ (12")
Battery life	Up to 8 hours
Controls	Mic/GT, UHF, Bass/Treble, Effect, Music, Bass/Treble
Inputs	XLR/jack mic/line, 6.3mm mic/line, L+R RCA line, 3.5mm Aux
Wireless mic carriers	863-865MHz and 823-832MHz
Amplifier: output	50W + 50W
Power handling: rms	200W
Frequency response	48Hz - 20kHz
SPL @ 1W/1m	100dB
Dimensions	570 x 360 x 330mm
Weight	13.5kg



Disposal: The "Crossed Wheeled 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.

Hereby, AVSL Group Ltd. declares that the radio equipment type 178.883UK is in compliance with [Directive 2014/53/EU](#)

The full text of the EU declaration of conformity for 178.883UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/178883UK%20CE.pdf>

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