

V-SERIES

VHF Wireless Systems
User Manual





Introduction

Thank you for choosing the QTX Sound VHF-series wireless system. This professional wireless set provides a high quality microphone with VHF radio system for freedom of movement without loss of audio quality. Please read this manual before using this equipment in order to avoid damage through incorrect operation and to get the best performance from your purchase.

Contents:

Please take care when unpacking this product. Inspect for any damage and ensure you have the following components...

- VHF wireless receiver
- Mains power adapter
- 6.3mm mono jack lead
- 9V battery, PP3 (2 pieces for VH2, VN2 or VHN2)
- Microphone / transmitter(s) see table below

Model	Stock code	Microphone 1	Microphone 2
VH1	171.804 / 171.805	Handheld transmitter	-
VH2	171.816 / 171.817	Handheld transmitter	Handheld transmitter
VN1	171.836 / 171.837	Neckband mic. + bodypack	-
VN2	171.818 / 171.819	Neckband mic. + bodypack	Neckband mic. + bodypack
VHN2	171.810 / 171.811	Handheld transmitter	Neckband mic. + bodypack
VL1	171.834 / 171.835	Lavalier mic. + bodypack	-

Warning

To prevent the risk of fire or electric shock, do not expose any of the components to rain or moisture. If liquids are spilled on any component, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use.

Avoid impact or heavy vibration to any of the components, dropping the microphone can cause capsule failure. No user serviceable parts inside transmitter or receiver - refer servicing to qualified service personnel.

Safety

- Ensure that the correct adapter is used with adequate current rating and that the mains voltage is as stated on the adapter.
- Avoid ingress of water or particles into the transmitter(s) or receiver
- Use alkaline or NiMH batteries in the transmitter(s) and remove if unused for long periods.
- Observe the correct polarity when replacing batteries

Placement

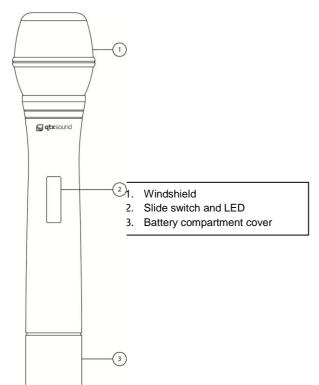
- Keep all components out of direct sunlight and away from heat sources.
- Do not place heavy objects on top of the receiver or transmitter(s)
- If rack-mounting, secure the receiver to a 1U rack tray and do not place heavy equipment above the receiver.
- Keep the transmitter(s) and receiver away from damp or dusty environments.

Cleaning

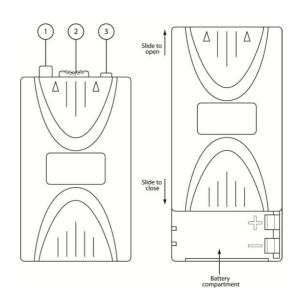
- Use a soft cloth with a neutral detergent to clean the body of the microphone/transmitter and receiver.
- Lightly damp sterile wipes may be used on the microphone grille for hygiene purposes
- To avoid damage, do not use solvents to clean the components



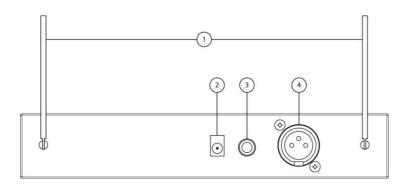
Handheld Transmitter



Bodypack Transmitter

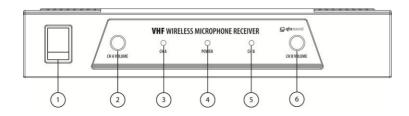


Receiver Rear Panel



- 1. Antennae
- 2. Power adapter input
- 3. Unbalanced 6.3mm jack output
- 4. Balanced XLR output

Receiver Front Panel



- 1. Power ON/OFF switch
- 2. Channel A volume control
- 3. Channel A indicator LED
- 4. Power indicator LED
- 5. Channel B indicator LED
- 6. Channel B volume control



Operation

For handheld transmitters, insert the supplied 9V batteries by carefully unscrewing the base to reveal the + and - terminals inside the microphone body, connect the battery (ensure + and - are the correct way round) and carefully screw the base back on.

For bodypacks, slide the front half of the bodypack upwards just enough to reveal the battery compartment and position the supplied 9V battery inside (ensure + and - are the correct way round) and then slide the bodypack case together as before.

Position the receiver within the best available line of sight to the transmitter(s) and connect the DC jack of the supplied power adapter to the receiver and the plug-top to the mains outlet. Extend both antennae fully upwards and outwards slightly and switch the power on. Turn microphone level(s) down on the receiver.

Note: for dual sets (with 2 transmitters), both microphones' outputs will be mixed and fed to both balanced and unbalanced outputs.

Connect the jack or XLR (optional) lead to the receiver's audio output connector, turn down the volume of any equipment (mixer, amplifier etc.) that the signal will be fed into and then connect the jack or XLR to the equipment.

Warning! - take care not to point microphones towards speakers – this can cause damaging feedback (loud whistle or howling noise) – try to point microphones away from the speaker cabinets.

Move the switch on the handheld or bodypack transmitter to the first notch (MUTE) – the LED should light momentarily (continuous dim LED indicates low battery). Move on another notch (ON) and gradually increase the microphone level(s) on the receiver, then increase the volume on the mixer or amplifier until the sound from the microphone can be heard through the equipment.

During use, it may be useful for the reception of the microphone to be muted for a short period of time (e.g. to avoid feedback when walking across the front of a speaker or avoid handling noise when placing the microphone down momentarily or adjusting a neckband microphone). In these circumstances, it may be better to move the transmitter switch to the "MUTE" position, which maintains the radio frequency carrier signal but mutes the microphone input. When this switch is moved back to the "ON" position, the sound will be immediately restored without waiting for the radio signal to be reinstated.

If the wireless system is not to be used for more than a few seconds, it is preferable to slide the transmitter switch to the "OFF" position, which mutes and deactivates the radio signal and powers down the transmitter. Be sure to turn down the volume of the mixer or amplifier and then switch off the receiver. Unplug signal leads from the receiver and mixer or amplifier when moving or packing away.

If the system is not to be used for long periods of time, remove the batteries from the transmitter and unplug the power adapter from the receiver and the mains outlet. Retracting the antennae can also help avoid damage when the system is not in use.



Specifications

Carrier type	VUE 174 1 201 4MU-					
Carrier type	VHF 174.1–201.4MHz					
Frequency stability Maximum deviation	±0.005% ±30kHz					
Audio frequency response Signal to noise ratio	40Hz – 20kHz					
	>85dB					
Audio dynamic range T.H.D.	>80dB					
Maximum range	≤0.2%					
Operating temperature	50m -10°C to +50°C					
Operating temperature	-10°C to +30°C					
	Receiver					
	Receive					
Power supply	10Vac 250mA (mains adapter					
	supplied)					
Audio outputs	XLR (balanced), Jack (unbalanced)					
Controls	Power On/Off, Mic. Volume(s)					
Indicators	Power, Signal					
Dimensions	43 x 213 x 180mm					
Weight	340g					
Handheld Tran	smitter (VH1, VH2, VHN2)					
Capsule type	Dynamic - cardioid response					
Battery	9Vdc, PP3					
Switch	Power / Mute / On					
RF emission	<10mW					
Dimensions	235 x 44mmØ					
Weight (without battery)	176g					
Bodypack Transn	nitter (VN1, VN2, VHN2, VL1)					
B. II	Love ppg					
Battery	9Vdc, PP3					
Switch	Power / Mute / On					
Connector	3.5mm mono jack					
Compatible microphones	171.855, 171.856, 171.857					
RF emission	<10mW					
Dimensions	105 x 60 x 30mm					
Weight (without battery)	77g					
NECKBAND MICE	DODUGNE (VAIL VAID VUND)					
NECKBAND MICH	ROPHONE (VN1, VN2, VHN2)					
Capsule type	Condenser - cardioid response					
Power supply	3V phantom from Bodypack					
Connector	3.5mm mono jack					
Dimensions	140 x 180 x 60mm					
Weight	25g					
Weight	23g					
LAVALTER	MICROPHONE (VL1)					
mrivrimably	()					
Capsule type	Condenser - cardioid response					
Power supply	3V phantom from Bodypack					
Connector	3.5mm mono jack					
Dimensions	40 x 27 x 20mm					
Weight	20g					



Frequency Chart (for AU or NZ version, see EU)

Model	Version	Stock code	Mic 1	Mic 2
VH1	EU versions	171.804EU	197.32MHz	-
		171.805EU	198.25MHz	-
	UK versions	171.804UK	173.8MHz	-
		171.805UK	174.5MHz	-
	EU versions	171.816EU	197.32MHz	200.18MHz
VH2		171.817EU	198.25MHz	201.4MHz
VIIZ	UK versions	171.816UK	173.8MHz	174.8MHz
		171.817UK	174.1MHz	175.0MHz
	EU versions	171.836EU	197.32MHz	-
VN1		171.837EU	199.82MHz	-
AINT	UK versions	171.836UK	173.8MHz	-
		171.837UK	174.5MHz	-
	EU versions	171.818EU	197.32MHz	200.18MHz
VN2		171.819EU	198.25MHz	201.4MHz
VINZ	UK versions	171.818UK	173.8MHz	174.8MHz
		171.819UK	174.1MHz	175.0MHz
	EU versions	171.810EU	197.32MHz	200.18MHz
VHN2		171.811EU	198.25MHz	201.4MHz
VIIIVZ	UK versions	171.810UK	173.8MHz	174.8MHz
		171.811UK	174.1MHz	175.0MHz
	EU versions	171.804EU	197.32MHz	-
VL1		171.805EU	199.82MHz	-
VLI	UK versions	171.804UK	173.8MHz	-
		171.805UK	174.5MHz	-

Troubleshooting

"POWER" LED does not light on receiver	Ensure power adapter is connected to mains and working properly		
TOWER ELD does not light on receiver	Ensure receiver is switched on		
	Ensure transmitter is switched on		
"POWER" LED is lit but no "SIGNAL" LED	Check that transmitter is not out of reception range		
	Check that transmitter battery is good / charged		
	Check if transmitter switch is in "MUTE" position		
	Check if neckband or lavalier microphone is connected to bodypack		
LEDs are lit but no sound from	Make sure receiver is connected to mixer / amplifier		
microphone	Make sure that amplifier / mixer channel volume is turned up		
	Ensure transmitter has a good / charged battery		
	Check if there is another nearby transmitter with the same frequency		
	Turn down GAIN ADJUST on bodypack transmitter		
Microphone output is very loud or	Turn down VOLUME on receiver		
distorted	Reduce Gain on mixer / amplifier		
	Ensure that XLR output is not fed to a Line input		
	Turn up GAIN ADJUST on bodypack transmitter		
	Turn up VOLUME on receiver		
Microphone output is very low	Increase Gain on mixer / amplifier		
,	Ensure that Jack output is not fed to a Mic input		
	Check transmitter battery		

C€1622

Errors and omissions excepted. Copyright© 2013. AVSL Group Ltd.