

# UH5, UN5

## UHF Wireless Systems

### User Manual

171.802UK, 171.803UK



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 this QTX Sound UHF wireless system. This professional wireless set provides a high quality microphone with UHF 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...

- UHF wireless receiver
- Mains power adapter
- 6.3mm mono jack lead
- 2 x AA batteries
- Handheld microphone transmitter or bodypack transmitter with neckband microphone

## 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 or receiver
- Use alkaline or NiMH batteries in the transmitter and remove if unused for long periods.
- Observe the correct polarity when replacing batteries

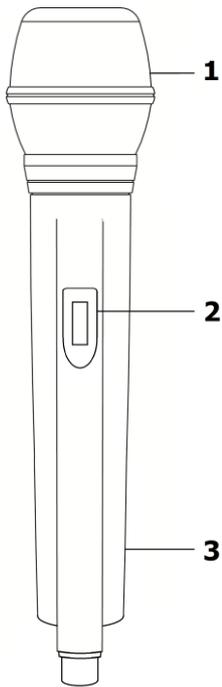
## Placement

- Keep all components out of direct sunlight and away from heat sources.
- Do not place heavy objects on top of the receiver or transmitter
- Keep the transmitter and receiver away from damp or dusty environments.

## Cleaning

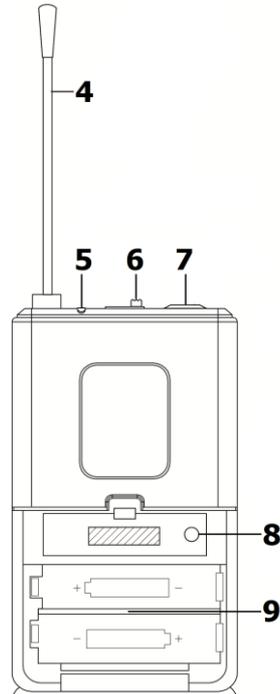
- Use a soft cloth with a neutral detergent to clean the body of the microphone/transmitter and receiver.
- Lightly damp sterile wipes may be used on the microphone grille for hygiene purposes
- To avoid damage, do not use solvents to clean the components

## Handheld Transmitter



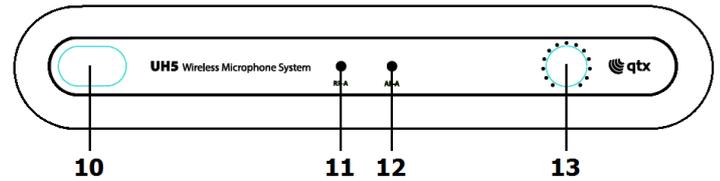
1. Windshield
2. Slide switch and LED
3. Battery compartment

## Bodypack Transmitter



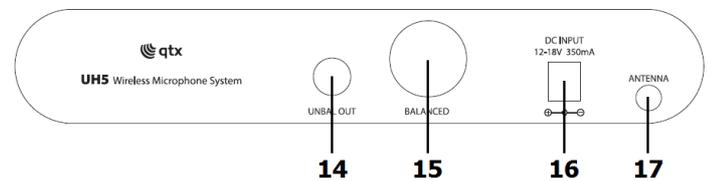
4. Antenna
5. RF indicator
6. Slide switch
7. 3.5mm threaded jack
8. Gain control
9. Battery compartment

## Receiver Front Panel



10. Power ON/OFF switch
11. RF carrier indicator
12. AF audio level indicator
13. Output level control

## Receiver Rear Panel



14. Unbalanced jack output
15. Balanced XLR output
16. DC power inlet
17. Antenna

## Operation

Insert the supplied AA batteries by carefully sliding the rear battery compartment cover downwards on the handheld transmitter or flipping the front cover forward on the bodypack transmitter to reveal the battery compartment and install the batteries, taking care to observe the correct polarity. For the UN5 system, connect the neckband microphone to the bodypack transmitter via the threaded 3.5mm jack.

Position the receiver within the best available line of sight to the transmitter and turn down the output level control. Connect the DC jack of the supplied power adapter to the receiver and the plug-top to the mains outlet. Extend the antenna upwards and outwards slightly and switch the power on.

Connect the jack or an 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. Output level can then be adjusted to the required level from the receiver output level control and the volume controls on the amplifier or mixer. If the level from the UN5 bodypack transmitter is too low, the Gain control inside the battery compartment may need to be adjusted with a small screwdriver.

During use, it may be helpful 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.

If the wireless system is not to be used for longer periods, 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 adaptor from the receiver and the mains outlet.

## Specifications

Power supply - receiver	12-18Vdc, 350mA adaptor (included)
Power supply - transmitter	3Vdc (2 x AA batteries included)
Carrier frequency	864.99MHz
Maximum range	50.0m
Sensitivity	-105dB @ ±12dB
Signal to noise ratio	>105dB
THD	<0.5% @ 1KHz
Output connection	XLR or 6.3mm jack
Frequency response	50Hz - 18KHz (±1dB)
Dimensions - handheld transmitter	265 x 46mmØ
Weight - handheld transmitter	174g (no battery)
Dimensions - bodypack transmitter	205 x 68 x 25mm
Weight - bodypack transmitter	76g (no battery)
Dimensions - receiver	209 x 150 x 42mm
Weight - receiver	390g

## Troubleshooting

"POWER" LED does not light on receiver	Ensure power adaptor is connected to mains and working properly
	Ensure receiver is switched on
"POWER" LED is lit but no "SIGNAL" LED	Ensure transmitter is switched on
	Check that transmitter is not out of reception range
	Check that transmitter battery is good / charged
LEDs are lit but no sound from microphone	Check if transmitter switch is in "MUTE" position
	Make sure receiver is connected to mixer / amplifier
	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
Audio level from microphone is too high or distorted	Turn down VOLUME on receiver
	Reduce Gain on mixer / amplifier
	Decrease bodypack gain control
	Ensure that XLR output is not fed to a Line input
Audio level from microphone is very quiet	Turn up VOLUME on receiver
	Increase Gain on mixer / amplifier
	Ensure that Jack output is not fed to a Mic input
	Increase bodypack gain control
	Check transmitter battery



**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.

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