

HU6

6 Channel UHF Wireless System

Item ref: 171.896, 171.897, 171.898

User Manual



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

Introduction

Thank you for choosing the Chord HU6 wireless system. This professional wireless set has been specially developed to provide 6 high quality microphones, operating within the UK and EU license free UHF band, enabling more flexible and sophisticated productions without special planning or additional licensing costs. Please read this manual before using this item in order to avoid damage and to get the best performance from your purchase.

Package Contents

- 6 channel UHF wireless receiver 2U rackmount
- 2 x antennas
- Mains power adapter
- 6.3mm mono jack lead
- 12 x 1.5V AA battery
- QU4-H version – 6 x handheld transmitters
- QU4-N version – 6 x neckband microphones + 6 x beltpack transmitters
- QU4-C version – 3 x handheld transmitters + 3 x neckband microphones + 3 x beltpack transmitters

If you find any accessory is missing or the product has arrived with any problems, please contact your retailer. 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 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 adaptor is used with adequate current rating and that the mains voltage is correct
- Avoid ingress of water or particles into the transmitters or receiver
- Use alkaline or NiMH batteries in the transmitters and remove if unused for long periods
- Observe the correct polarity when replacing batteries

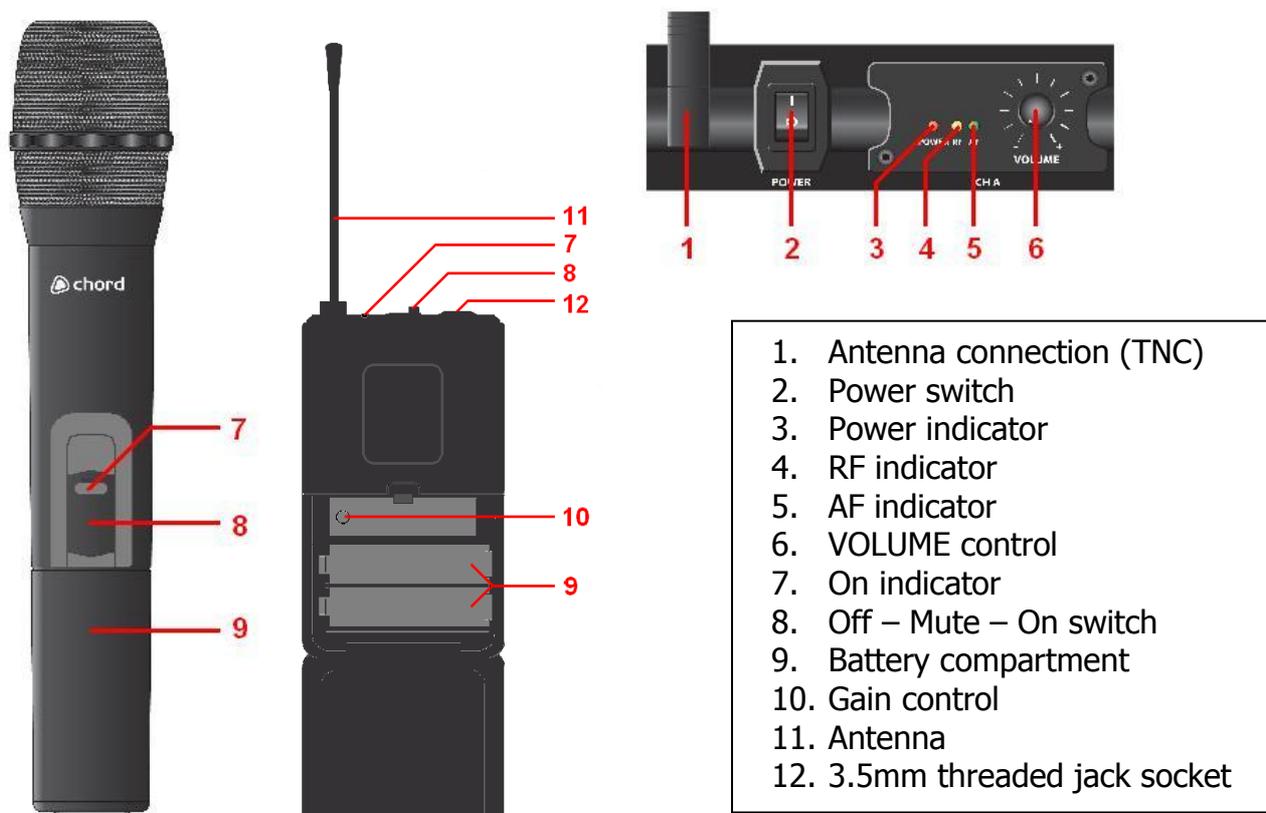
Placement

- Keep all components out of direct sunlight and away from heat sources
- Do not place heavy objects on top of the receiver or transmitters
- If rack-mounting, ensure adequate support for the weight of the receiver and do not place heavy equipment on top of it
- Take care to keep antennas from sticking out where they may get damaged
- Keep the transmitters and receiver away from damp or dusty environments

Cleaning

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

Control Layout



Setting Up

Insert the supplied AA batteries into the handheld or belt-pack transmitters by carefully unscrewing the base or flipping forward the front cover to reveal the battery compartment inside the transmitter body, connect the batteries (ensure + and - are the correct way round for each cell) and carefully replace the cover. Connect neckband microphones to the relative belt-pack transmitters by connecting and screwing in the 3.5mm jack plug fully.

Screw on the front-mounted TNC antennas and position the receiver within the best available line of sight to the transmitter(s). Connect the DC jack of the supplied power adapter to the receiver and the plug top to the mains outlet. Turn microphone level(s) down on the receiver.

A choice of mixed output of all 6 microphones on 6.3mm jack or individual balanced XLR outputs is available on the rear panel of the receiver. Connect jack or XLR (optional) leads to the relative output connector(s), turn down the volume of any equipment (mixer, amplifier etc.) that the signal will be fed into and then connect the jack or XLRs 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.

Operation

Switch on power to the receiver unit and check that the red power LED is lit on each channel (if not, turn the VOLUME rotary control just past the zero point).

Move the switch on the first handheld or beltpack transmitter to the first notch (MUTE) – the LED (7) should light momentarily and the RF indicator (4) on the receiver should light to show an active radio carrier signal.

Move on another notch (Fully ON) and gradually increase the microphone level on the receiver, then increase the volume on the mixer or amplifier until the sound from each microphone can be heard through the equipment.

The AF indicator (5) on the receiver will flash with any sound made into the microphone.

Output level for each microphone can be adjusted using the rotary controls on the front panel of the receiver unit.

Repeat for the other 5 microphones. (Note: if output is low from neckband microphones, it may be necessary to adjust the Gain control (10) inside the beltpack unit).

The HU6 system uses specially developed filtering techniques to enable all 6 channels to operate independently within the narrow license free UHF band. In order to do this successfully, there should be a minimum distance of 2 metres between any of the transmitters and the receiver to help avoid cross-interference of RF carrier signals.

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 transmitters and unplug the power adapter from the receiver and the mains outlet. Folding away or removing the antennas can also help avoid damage when the system is not in use.

Specifications

Power supply - receiver	12-18Vdc 1500mA adaptor (supplied)
Batteries	12 x AA (included)
Carrier frequencies	863.42MHz Red
	863.10MHz Green
	863.70MHz Blue
	865.00MHz Yellow
	864.10MHz Pink
	864.65MHz Purple
Stability	10PPM
S/N ratio	>105dB
THD	<0.5% @ 1kHz
Image rejection	85dB typical
Range	50m (max)
Output impedance	2.2k Ohms
Output level	Balanced: 0-400mv, unbalanced: 0-200mv
Connectors	DC in, 6 x XLRM, 6.3mm jack
Dimensions - receiver	483 x 215 x 68mm
Weight - receiver	8.15kg
Dimensions - handheld transmitter	243 x 48mmØ
Weight - handheld transmitter	238g (no battery)
Dimensions - beltpack transmitter	205 x 68 x 25mm
Weight - beltpack transmitter	76g (no battery)
Dimensions - neckband microphone	140 x 180 x 60mm
Weight - neckband microphone	20g

Troubleshooting

"POWER" LED does not light on receiver	Ensure power adapter is connected to mains and working properly
	Ensure receiver is switched on
"POWER" LED is lit but no "RF" or "AF" LEDs	Ensure transmitter is switched on
	Check that transmitter is not out of reception range
	Check that transmitter batteries are good / charged
"POWER" and "RF" LEDs are lit but no "AF" and no sound	Check that transmitter switch is not in "MUTE" position
	Ensure transmitter has good / charged batteries
	Ensure there is no other nearby transmitter with the same frequency
All LEDs lit but no sound from mic	Make sure receiver is properly connected to mixer / amplifier
	Ensure that receiver and amplifier/mixer channel volumes are turned up
RF carrier signals are "dropping out" intermittently	Ensure that all transmitters are more than 2m away from the receiver
	Avoid any physical barriers (e.g. walls) between transmitters and receiver
	Adjust the angle of the antennas to try to achieve more stable reception
Microphone output is very loud or distorted	Turn down VOLUME on receiver
	Reduce Gain on beltpack transmitter
	Reduce Gain on mixer / amplifier
	Ensure that XLR output is not fed to a Line input
Microphone output is very low	Turn up VOLUME on receiver
	Increase Gain on beltpack transmitter
	Increase Gain on mixer / amplifier
	Ensure that Jack output is not fed to a Mic input
	Check transmitter batteries

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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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