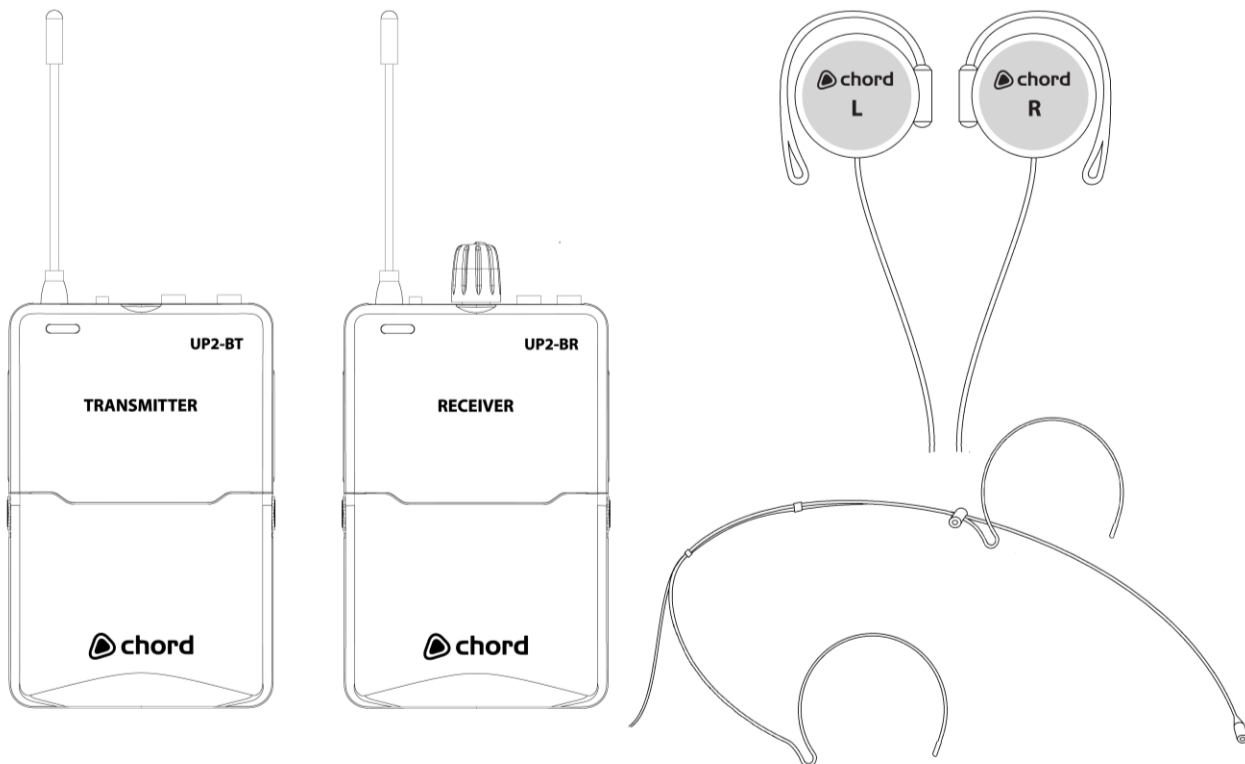


UP2

Portable UHF Wireless System

Item ref: 171.920UK, 171.921UK, 171.922UK, 171.923UK

User Manual



Version 1.1



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

Introduction

Thank you for choosing this Chord UP2 portable UHF wireless system. The UP2 system is designed to offer a flexible wireless platform for performance and communication applications. Please read this manual before using this equipment 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 beltpack transmitter
- UHF beltpack receiver
- Neckband microphone
- Over-ear hook headphones
- Hot-shoe camera mount
- 3.5mm stereo jack lead
- 3.5mm 4-pole jack lead
- 4 x AA batteries
- ABS carry case

Warning

To prevent the risk of damage, 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 stressing of components and connectors or over-stretching of the cables.

No user serviceable parts inside transmitter or receiver - refer servicing to qualified service personnel.

Safety

- Avoid ingress of water or particles into the transmitter or receiver
- Use alkaline or NiMH batteries in the bodypack receiver and remove if unused for long periods.
- Observe the correct polarity when replacing batteries

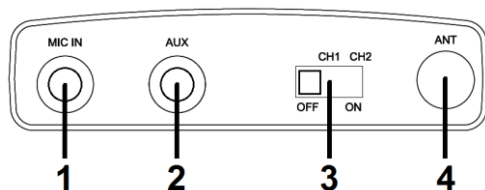
Placement

- Ensure good line-of-sight contact between transmitter and receiver for best reception
- 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

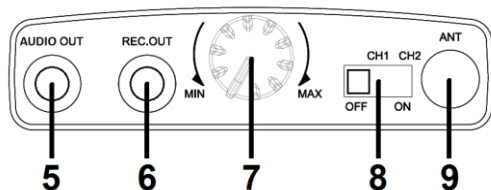
- Use a soft cloth with a neutral detergent to clean the body of the transmitter and/or receiver.
- To avoid damage, do not use solvents to clean the components
- Sterile wipes may be used on over-ear headphones – be sure to avoid ingress of fluids

Beltpack transmitter controls



1. Microphone input: 3.5mm mono jack
2. Aux line input: 3.5mm stereo jack
3. On/off + CH1-2 slide switch
4. Antenna

Beltpack receiver controls



5. Audio/Headphone output: 3.5mm 4-pole jack
6. Recording/Aux line output: 3.5mm 4-pole jack
7. Output volume control
8. On/off + CH1-2 slide switch
9. Antenna

Batteries

The UP2 transmitter and receiver both operate from 2 x AA batteries. To load these, grip and gently squeeze the sides of the lower front part of the beltpack and pull the flap forward to reveal the battery compartment (for optional handheld transmitters, unscrew the lower part of the microphone). Insert 2 x AA batteries (alkaline or NiMH) into the compartment, taking care to observe the correct polarity (+/-) as indicated inside the compartment. Once batteries are loaded, close the battery cover.

Transmitter beltpack connections

The UP2 set (171.920UK) is supplied with a neckband microphone and over-ear headphones. Connect the neckband microphone to the 3.5mm MIC IN jack (1) on the top of the UP2-BT transmitter. Alternatively, any of the chord replacement neckband or lavalier microphones which terminate to a mono 3.5mm plug may be used.

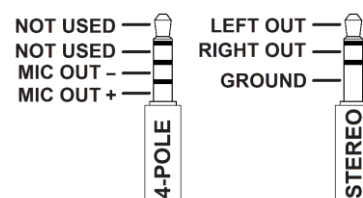
Additionally, the UP2-BT transmitter has an AUX 3.5mm input jack (2) which can be connected to any stereo line level source, such as an mp3 player or laptop using the stereo 3.5mm lead provided.

Note: the UP2 system operates in mono and all stereo inputs are summed to mono for transmission

Receiver beltpack connections

Connect the supplied over-ear headphones to the AUDIO OUT jack (5) on top of the UP2-BR receiver. Alternatively, any headphones with an impedance of 16Ω or more can be used or this output can be connected to the line input of a PA system, recording device or camera audio input.

Additionally, a 4-pole 3.5mm lead is provided so that the REC.OUT jack on the UP2-BR can be connected to a smart phone headphone jack for a microphone input. This can be useful for recording to the smart phone or even as a hands-free set, using the headset microphone for speaking and the headphones for listening.



Applications

The UP2 system can be used for many different wireless applications and can be expanded with additional transmitters and receivers, some of which are outlined below...

Application	Items used
Fitness instructor / product demonstrator	171.920UK
Wireless audio sender to active speaker	171.920UK + 190.230UK minijack to XLR lead
Vocalist	171.920UK + 171.923UK handheld transmitter
In-ear monitoring	171.920UK + 171.894UK in-ear monitor headphones
Tour guide or silent disco	171.920UK + multiple 171.921UK receivers
Presenter to broadcast camera	171.920UK + 171.967UK discreet lavalier microphone
Conference with 2-language translation	171.920UK + 171.922UK transmitter + multiple 171.921UK receivers

Expanded UP2 systems

The UP2 system is designed to be expandable for use with 1 or 2 signals (on 2 separate UHF channels) addressing multiple listeners.

Transmitters	Receivers
Max 2 at once	Unlimited number within reception range

Operation

When all connections are made, position the neckband microphone on the head of the vocalist/presenter so that it is situated at the side of the mouth to pick up speech without excessive popping or breath noise. Clip the UP2-BT belt-pack to clothing where convenient.

Move the slide switch (3) on the belt-pack (or handheld) transmitter from the OFF position to the first notch (CH1). The LED on the front of the belt-pack will light.

The listener(s) should wear the headphones and belt-pack and turn the volume control on the UP2-BR receiver (7) down fully and move the slide switch (8) from the OFF position to the first notch (CH1). The LED on the front of the belt-pack will light. Gradually turn the volume control up to the level required. If all is set up correctly, the listener(s) should now be able to hear the voice of the vocalist/presenter. The same will apply for any line level signal connected to the AUX input of the UP2-BT transmitter.

If using with a video camera, the UP2-BR is supplied with a mount for a hot-shoe platform and the AUDIO OUT can be connected to an aux line input on the camera.

Frequency selection

The UP2 system has 2 selectable UHF carrier frequencies, which can be used at the same time. However, any transmitter or receiver can only operate on one frequency at a time.

Where there is only one speech or audio signal, the selectable channels are only needed if there is interference on one of the carrier frequencies. Just select a clear channel to use.

In applications where 2 people are speaking (such as dual language translation), one speaker can transmit on CH1 and the other on CH2 and the listeners can select which speaker they need to listen to by switching channels on their UP2-BR receivers.

Likewise, for in-ear monitoring, it is possible for performers to switch between 2 different monitor mixes which are transmitter separately on CH1 and CH2.

For "always on" 2-way communications, it is possible to use 2 UP2 sets with each user having both transmitter and receiver belt packs. One user will transmit on CH1 and listen to CH2 whilst the other user will transmit on CH2 and listen to CH1.

When not in use, switch off transmitters and receivers and remove the batteries if not being used for long periods.

Specifications

Power supply	4 x AA batteries (2 for transmitter, 2 for receiver)
Carrier frequencies	863.3MHz + 864.3MHz
Transmitter : power	$\geq 20\text{mW}$
Maximum range	60m
Microphone	Miniature electret condenser omnidirectional
Microphone : connector	3.5mm mono jack
Phantom power	3V
Frequency response	40Hz - 15kHz
Auxiliary input	3.5mm stereo jack (transmitter)
Audio output	3.5mm stereo jack - headphone or line out (mono summed)
Headphone : impedance	≥ 16 Ohms
Headphone : power	2 x 50mW @1kHz (THD 3%)
REC output	3.5mm 4-pole jack to smart phone / laptop
Dimensions (packed)	250 x 210 x 70mm
Weight (per set)	740g



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.