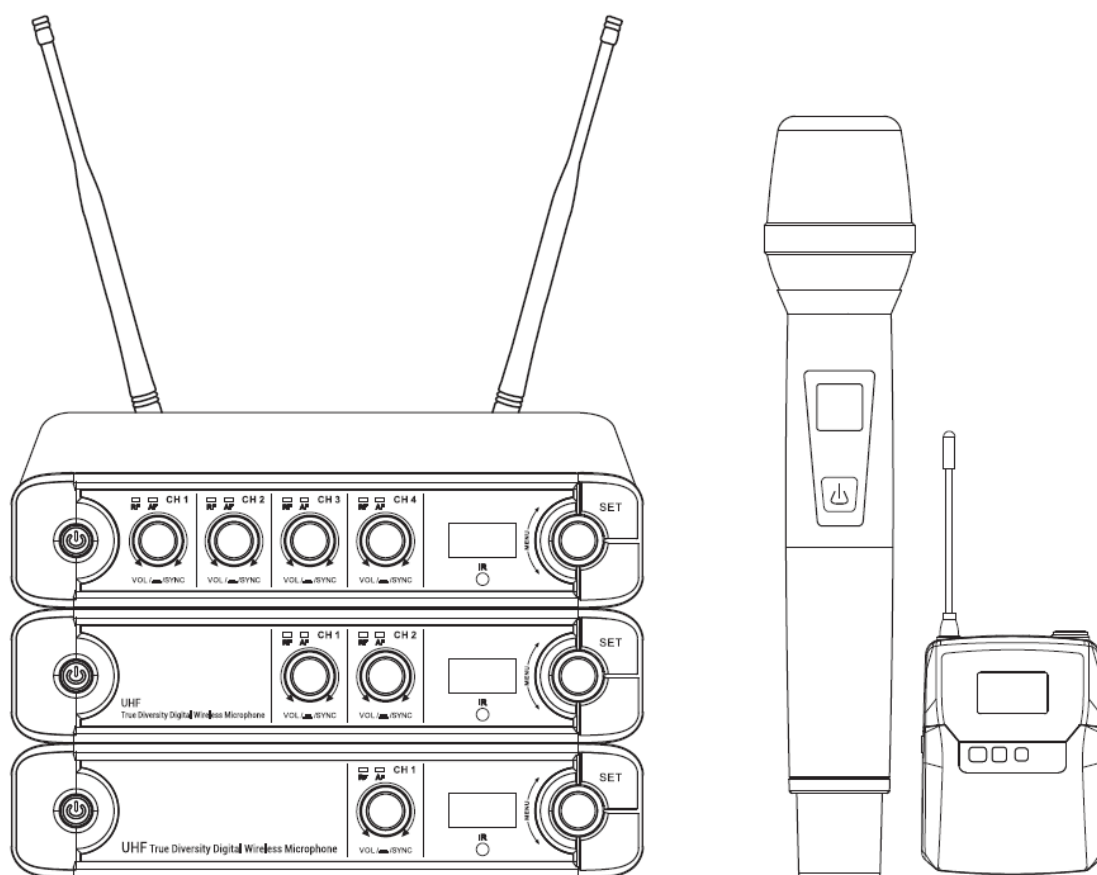


XU-series

PLL Diversity UHF Wireless System

Item ref:	171.011UK	XU1-H
	171.012UK	XU1-N
	171.014UK	XU2-H
	171.015UK	XU2-N
	171.016UK	XU2-C
	171.017UK	XU4-H
	171.018UK	XU4-N
	171.019UK	XU4-C

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 the Chord XU-series wireless system. This professional wireless set provides high quality microphones with a PLL UHF radio system for freedom of movement without compromising 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.

Package Contents

- XU-series 1, 2, or 4-channel UHF wireless receiver
- 19" rack brackets
- 2 x UHF aerials
- 2 x BNC antenna cables (for front panel mounting)
- 1, 2, or 4 transmitters (handheld or bodypack)
- 1, 2, or 4 neckband and lavalier microphones (bodypack versions only)
- Mains power adapter
- 6.3mm mono jack lead
- 2 x 1.5V AA battery per transmitter

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

These products contain no user-serviceable parts inside. Do not attempt to try to fix or modify these items 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 power adaptor is used with adequate current rating (350mA minimum) and that the mains voltage is as stated on the adapter.
- 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

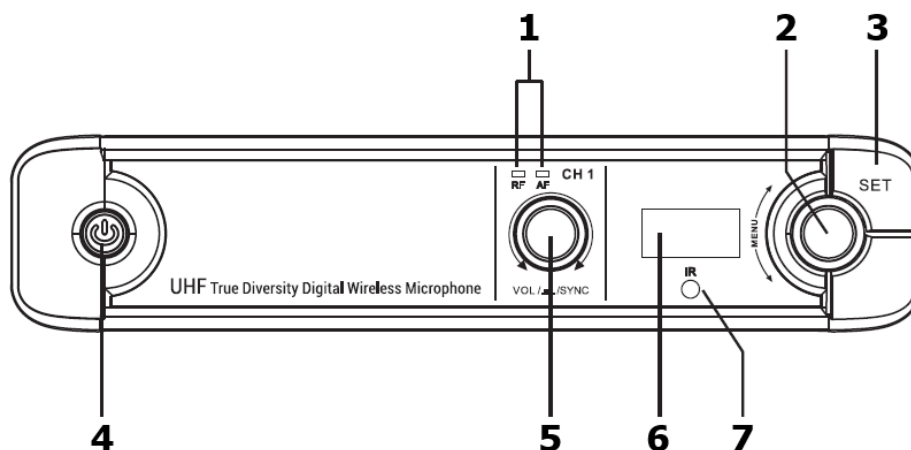
- Keep all components out of direct sunlight and away from heat sources.
- Do not place heavy objects on top of the receiver or transmitters
- If rack-mounting, use rack ears provided and do not place heavy equipment above the receiver.
- Keep the transmitters and receiver away from damp or dusty environments.

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 grille for hygiene purposes
- To avoid damage, do not use solvents to clean the components

Receiver Front Panel

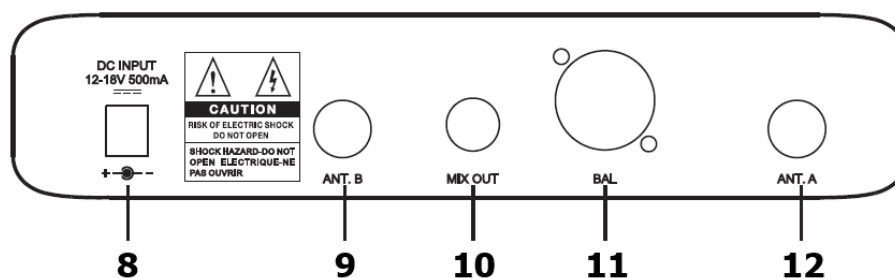
(single channel version shown)



- | | |
|-----------------------------|--------------------------------|
| 1. AF and RF indicator LEDs | 5. Channel volume/sync control |
| 2. MENU rotary knob | 6. TFT display |
| 3. SET button | 7. IR sync transmitter |
| 4. Power on/standby switch | |

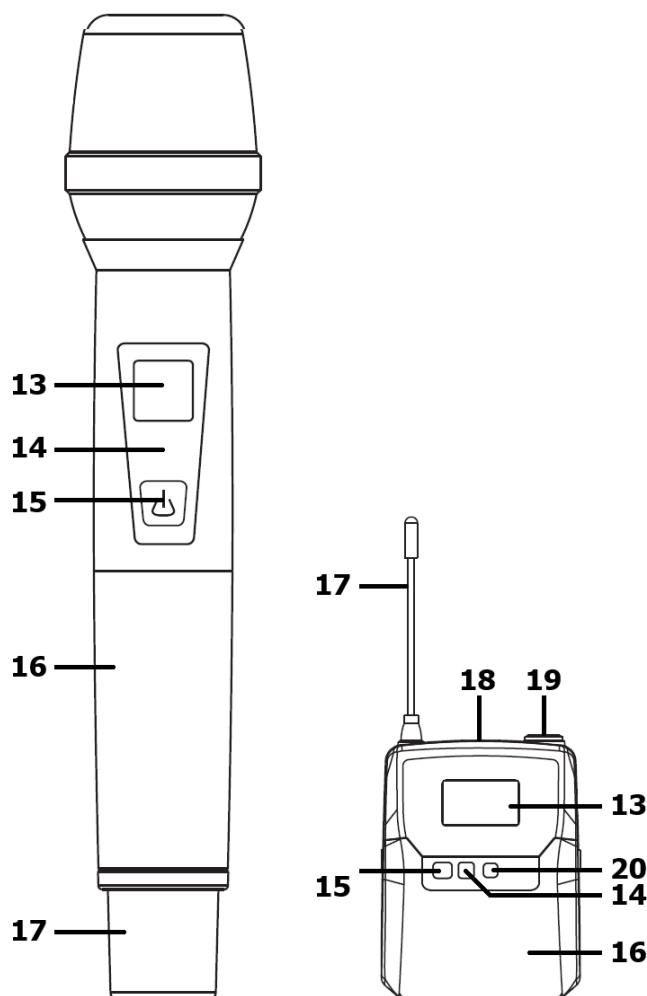
Receiver Rear Panel

(single channel version shown)



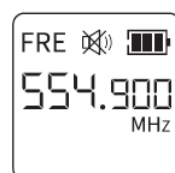
- | | |
|---|--|
| 8. DC power input jack | 11. Balanced XLRM output (1 per channel) |
| 9. Antenna B connection (BNC) | 12. Antenna A connection (BNC) |
| 10. 6.3mm jack output (mix of all channels) | |

Transmitters



- 13. LCD display
- 14. IR sync receiver
- 15. Power switch (& mute for handheld)
- 16. Battery compartment
- 17. Antenna
- 18. Mute/unmute button
- 19. Mini XLR connector
- 20. 4-level volume setting button

Handheld and bodypack LCD display detail shown below



Note: If replacement transmitters are required, they must be genuine Chord XU series transmitters to match the receiver.

Setting Up

Insert the supplied AA batteries into the handheld transmitters by carefully unscrewing the base to reveal the battery compartment inside the microphone body, connect the batteries (ensure + and - are the correct way round for each cell) and carefully screw the base back on. For bodypack transmitters, squeeze and flip forward the front cover to reveal the battery compartment and insert AA batteries, observing correct polarity. Insert the Mini XLR connector from the neckband or lavalier microphone to the input on top of the bodypack transmitter until it clicks.

Position the receiver within the best available line of sight to the transmitters and connect the DC jack of the supplied power adapter to the receiver and the plug-top to the mains outlet. Connect both antennas to the BNC connectors on the rear panel or alternatively, attach to the rack ears, connecting via the BNC extension leads supplied. Turn channel levels down on the receiver.

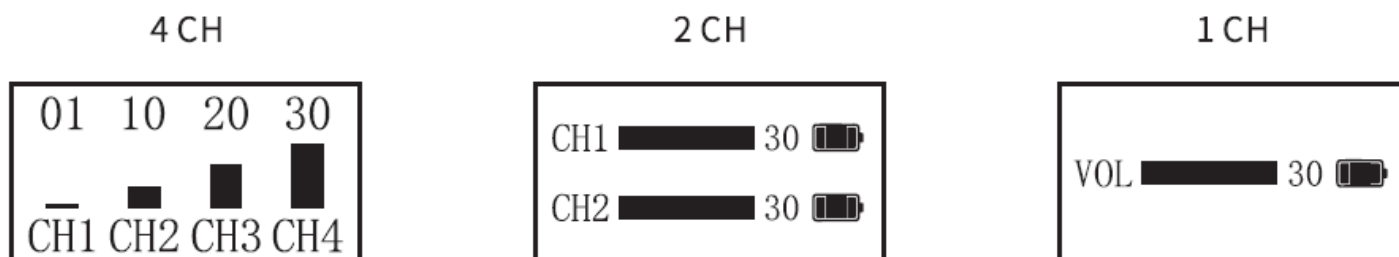
A choice of mixed output of all microphones on 6.3mm jack or individual channel balanced XLR outputs is available on the rear panel of the receiver. Connect jack or XLR (optional) leads to the relative output connector(s), turn down the volume of any equipment (mixer, amplifier etc.) that the signal 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 aim microphones away from the speaker cabinets.

Operation

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

Turn down channel levels on the receiver unit, then press and hold the power button to power up. The display will show the information as detailed per below for each version.



Hold the power switch on each transmitter in turn to power up (the display will light up)
The receiver channel display for that microphone will now show RF, AF, battery and the volume status will show in the TFT display.

Each transmitter should be at least 3m away from the receiver and 1m apart from other transmitters.

Increase the volume control on the sound system and then each channel volume until the sound from each microphone can be heard through the sound equipment. Then adjust each channel to the required volume level.

Bodypack transmitters also have a 4-level volume selector onboard, which should be set to the output level needed. It is also important to check that the bodypack is not set to **MUTE** by the top mounted button.

Out of the box, the XU system will already have transmitters and receiver tuned and set. If there is any interference during testing, the system may need to be re-tuned as described below.

Carrier frequencies

The XU system has different options for tuning to various carrier frequencies via the menu-driven user interface on the receiver unit.

XU systems can operate on the license-free CH.70 band (863.1-864.9MHz) or the regulated CH.65 band (823-832MHz). Using CH.70 frequencies is license-exempt in UK and EU regions, whereas CH.65 is set aside for use with a PMSE license, available from www.ofcom.org.uk

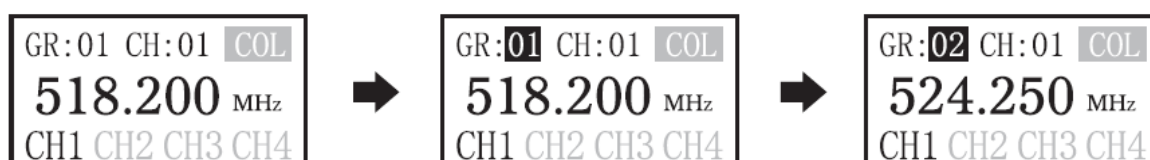
The XU set will be tuned to license free frequencies by default. Be sure to select the frequencies that are licensed only if a PMSE license has been set up. Otherwise, stay within the license-free UHF banded groups.

Receiver menu & tuning

The XU system uses pre-set carrier frequencies that are arranged in groups to ensure that they operate together with minimal interference. These are arranged as follows:

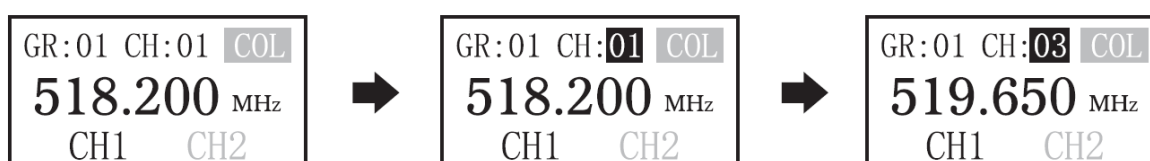
G	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
1	863.425	864.975	864.300	863.025	823.100	827.700	826.100	828.400								
2	864.950	863.975	864.525	863.150	823.875	830.350	827.975	829.625								
3	864.100	863.100	863.700	823.000	826.575	827.975	831.800	828.525								
4	823.100	823.500	824.100	824.900	826.100	827.700	829.900	864.700	825.275	826.575	828.400	830.950				
5	823.200	823.600	824.200	825.000	826.200	827.800	830.000	864.800	825.375	826.675	828.500	831.050				
6	823.000	864.100	826.125	863.125	827.975	831.800	824.900	863.700	829.625	830.350	823.875	825.425	828.525			
7	823.000	823.875	824.500	827.125	829.625	831.800	823.375	824.900	825.425	826.125	826.575	827.975	828.525	830.350	864.05	
8	823.000	864.950	824.500	827.125	831.800	863.975	824.900	864.625	826.575	827.975	829.625	830.350	863.150	864.900	825.425	826.125

To change the tuning, press the SET button and the TFT display will show the current setting by GR (group), CH (channel), COL (channel colour) and frequency as below for the 4 channel version. (please note that no settings affect the transmitters until they are synchronised as described below)



Press the MENU knob once to highlight **GR** and turn the same MENU knob to select from GR1 to GR8, depending on which group of carrier frequencies will be used. Then press the MENU knob again to confirm.

Press the MENU knob twice to highlight **CH** and turn the same MENU knob to select the channel number from what is available in the group. Then press the MENU knob again to confirm. (2 channel version shown)



Press the MENU knob three times to highlight **COL** and turn the same MENU knob to select the channel colour, which will be shown in the TFT display and on the backlight for the transmitter LCD screens. Then press the MENU knob again to confirm. (1 channel version shown)



Channel number and channel colour should be set for additional channels on XU2 and XU4 models by pressing the SET button multiple times to navigate to CH1, CH2, CH3, or CH4 tabs at the bottom of the TFT display and repeating the **CH** and **COL** settings described above for each one. (Note: Group is selected for ALL channels and cannot be changed per channel).

For the transmitter(s), none of the settings will take effect until the IR (infra-red) synchronisation has been performed. To do this press the rotary volume control for the channel in question and hold the IR receiver part of the handheld or bodypack transmitter facing the IR sync transmitter on the front panel of the receiver.

The receiver will send group, channel and backlight colour information to the transmitter and the display will show when this is completed (Selecting different LCD backlight colours is useful for identifying different transmitters on a stage)

When the bodypack system is not being used for short periods, it may be useful to press the top MUTE button to temporarily disable the microphone, otherwise, as with handheld transmitters, press and hold the power button to switch it off and preserve the batteries. Remove the batteries if not being used for long periods.

Specifications

Power supply	12-18Vdc, 500mA (1000mA for XU4) - mains adaptor supplied
Batteries	2 x AA per transmitter
Carrier frequencies	823-832 / 863-865MHz
Wireless range	Up to 60m
Antenna connection	BNC
Dimensions: receiver	205 x 205 x 44mm
Weight: receiver	755g
Dimensions: handheld transmitter	258 x 47mmØ
Weight: handheld transmitter	246g (no battery)
Dimensions: bodypack	90 x 60 x 25mm
Weight: bodypack	74g (no battery)
Dimensions: neckband microphone	180 x 140 x 60mm
Weight: neckband microphone	28g
Dimensions: lavalier microphone	27 x 12mmØ
Weight: lavalier microphone	23g



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

Hereby, AVSL Group Ltd. declares that the radio equipment type 171.011UK, 171.012UK, 171.014UK, 171.015UK, 171.016UK, 171.017UK, 171.018UK, and 171.019UK are in compliance with [Directive 2014/53/EU](#)

The full text of the EU declaration of conformity for 171.011UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171011UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.012UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171012UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.014UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171014UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.015UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171015UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.016UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171016UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.017UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171017UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.018UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171018UK%20CE.pdf>
The full text of the EU declaration of conformity for 171.019UK is available at the following internet address: <http://www.avsl.com/assets/exportdoc/1/7/171019UK%20CE.pdf>

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