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PATENT PENDING



IN-EAR MONITOR WIRELESS SYSTEM

English Manual



**CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN**



WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE SCREWS.

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.

CERTIFICATION



Radio Approvals: FCC Part 15.249, RSS-247(Canada), EN 300 440 (Europe), EN 301.489 (Europe)

This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

Detailed DOC file please visit our website: www.xvive.com

IC CAUTION:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference,
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC CERTIFICATION

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



WARNING: Risk of reproductive
harm from exposure to Lead
www.P65Warnings.ca.gov

SAFETY INSTRUCTIONS FOR LITHIUM-ION RECHARGEABLE BATTERIES

If abused or misused, the rechargeable batteries may leak. In extreme cases, they may even present a risk of explosion, fire, heat, smoke or gas. Xvive does not accept any liability for damage arising from abuse or misuse.

- Keep away from children.
- Only charge rechargeable batteries with chargers recommended by Xvive.
- Observe correct polarity.
- Pack/store charged rechargeable batteries so that the terminals cannot contact each other (danger of shorting out/fire hazard).
- Do not expose to moisture.
- Switch rechargeable battery-powered products off after use.
- Only charge rechargeable batteries at ambient temperatures between 10°C/50°F and 40°C/104°F.
- When not using rechargeable batteries for extended periods of time, charge them regularly (about every three months).
- Do not mutilate or dismantle.
- Do not heat above 60°C/140°F, e.g. do not expose to sunlight or throw into a fire.

- Immediately remove rechargeable batteries from obviously defective products.
- Do not continue to use defective rechargeable batteries.
- Only use rechargeable batteries specified by Xvive.
- Dispose of rechargeable batteries at special collection points or return them to your specialist dealer.
- Store the products in a cool and dry place at room temperature (approx. 20°C/68°F).
- Remove the rechargeable batteries if the products will not be used for extended periods of time.



Hereby, **SHENZHEN FZONE TECHNOLOGY CO., LTD**, declares that this type of equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU

INFORMATION ABOUT COLLECTION AND DISPOSAL OF OLD ITEMS AND USED BATTERIES

These symbols on the products, packaging, or on any documents in the package mean it is incorrect to mix the used electrical and electronic products and batteries with general household garbage.

To protect our environment, please take old products and used batteries to proper collection places, and follow your national legislation and the Directives 2012/19/EU and 2006/66/EC.

To deal with these old products and batteries properly, please help to save valuable resources and prevent any possibility of side effects on human health and our environment due to the inappropriate disposal of the old products and used batteries.

You can contact your local authority for getting more helpful information on how to dispose the recycling and collection of the old products and batteries.

[For business users in the European Union]

If you want to discard electrical and electronic item, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. Please contact your local authorities or dealer for more information on disposal of old items and used batteries.



Cd

ONE-YEAR LIMITED WARRANTY

Xvive Corporation Ltd. [Xvive] warrants our products to be free of defects in materials and workmanship in normal use for a period of one (1) year from the date of original purchase. Please visit <https://www.xvive.com> to register your new purchase.

Xvive will, at its sole discretion, or in affiliation with our authorized retailers, repair or replace at no charge, any unit that is inspected by Xvive or an affiliated Xvive service center and deemed to be defective within the warranty period. This warranty is non-transferrable.

This warranty is only valid to the original purchaser, only when purchased "new-in-box" from an Authorized Xvive Dealer and with a valid proof of purchase bearing the purchase date.

Within the USA:

• All Xvive warranty claims should be made with the retailer from which the unit was purchased. This applies to both

retail stores and online retailers.

Outside of the USA:

• For all warranty and non-warranty claims, the purchaser should contact the Authorized Xvive Retailer from which the unit was purchased within the country or province in which it was purchased for information on how to obtain warranty or non-warranty service.

This limited warranty does not cover the following:

- Products that have been modified in any way;
- Any products whose serial numbers have been altered or removed;
- Exterior cosmetic damage or damage to the finish due to misuse or normal wear and tear;
- Products that were purchased as "used", items listed as demo stock or refurbished items;
- Damage to the product or parts caused by improper storage by the user;

- Any freight charges (from or to the retailer);
- Shipping Damage:
 - Shipping damage claims must be filed with the freight carrier (such as UPS, FedEx).
 - Notify the freight carrier immediately of any shipping damage upon receipt of damaged items to begin the claim process.
 - We also recommend reporting any shipping damage claim within (48) hours of receipt to the Authorized Retailer from which the item was purchased.
 - Keep all original documents and packing materials until freight damage claim has a final resolution.
- If the unit is deemed to NOT be covered by this warranty, other charges plus return freight charges will apply.

EXCEPT AS EXPRESSLY SET FORTH ABOVE IN THIS LIMITED WARRANTY, XVIVE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES TO THE EXTENT PERMITTED BY LAW. XVIVE ASSUMES NO LIABILITY FOR PROPERTY DAMAGE RESULTING FROM FAILURE OF THIS PRODUCT NOR ANY LOSS OF INCOME, SATISFACTION, OR DAMAGES ARISING FROM THE LOSS OF USE OF SAME DUE TO DEFECTS OR AVAILABILITY OF SAME DURING SERVICE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR BY COUNTRY OR PROVINCE.

For units returned to Xvive USA:

- The item must be returned in the same format in which it was purchased. If a system containing a transmitter and receiver was purchased, then both units will need to be returned together.
- The purchaser will pay all freight charges to return the original item to Xvive USA or its affiliated service centers.
- If the unit is deemed to be covered by this warranty, Xvive will ship the repaired or replacement unit to the purchaser free-of-charge and without any additional freight charges.

For warranty inquiries not covered in this policy, please contact support@xvive.com

IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ THESE INSTRUCTIONS AND KEEP THEM IN A SAFE PLACE



WARNING: BEFORE USING YOUR XVIVE 5.8GHz WIRELESS IN-EAR MONITOR SYSTEM,
CAREFULLY READ THE OPERATING INSTRUCTIONS.

1. Observe all instructions carefully in the U45 set manual.
2. Do not to perform service operations beyond those described in the U45 set manual. Service is required when the apparatus has been damaged in any way, such as:
 - Liquid has been spilled or objects have fallen into the apparatus
 - The unit has been exposed to rain or moisture
 - The unit does not operate normally or changes in performance in a significant way
 - The unit is dropped or the enclosure is damaged
3. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
4. Guard against objects or liquids entering the device.
Do not use or place unit near water.
5. Clean only with a dry cloth.
6. Only use attachments/accessories specified by the manufacturer.
7. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."



WARNING

LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE.

Overexposure to excessive sound levels can damage your ears, resulting in permanent noise-induced hearing loss. Do not use earphones for a long time and set the volume below 70%.

PACKAGE DETAILS

U45 Transmitter	1PC
U45 Receiver	1PC
USB Cable	1PC
XLR Male to 1/4" TS Male Adapter	1PC
Manual	1PC
Bag	1PC

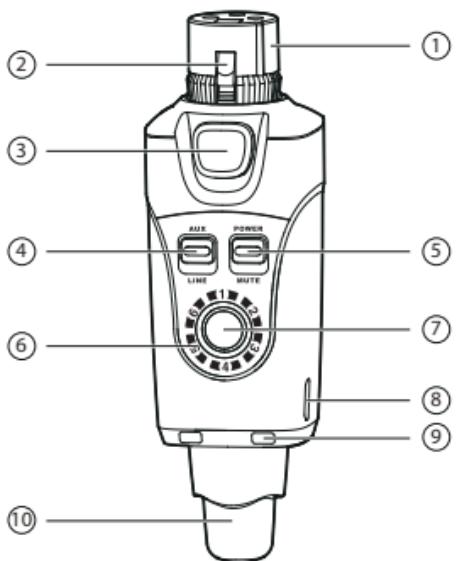
U45 SET PRODUCT INTRODUCTION

The U45 personal wireless monitoring system provides high-fidelity sound reproduction for performers onstage, in the studio and in rehearsal. This is a portable wireless system with nothing to set up. Just plug-and-play to immediately enjoy your monitoring system!

FEATURES:

- 5.8Ghz wireless in-ear monitor system
- Solid RF connection over a 90-footrange(actual range depends on RF signal absorption, reflection and interference)
- Up to 110 dB signal-to-noise ratio provides clear, detailed audio at any volume.
- High Resolution 24-bit/48kHz audio
- Broad 20Hz-20KHz frequency response
- Dynamic Range of 110 dB
- Less than 5ms latency, Simultaneous broadcast on up to 6 channels.
- 5 Hours of battery life (onboard rechargeable battery in both Transmitter and Receiver)
- Provides smooth frequency response with any headphones
- Mono balanced XLR or mono unbalanced TS input

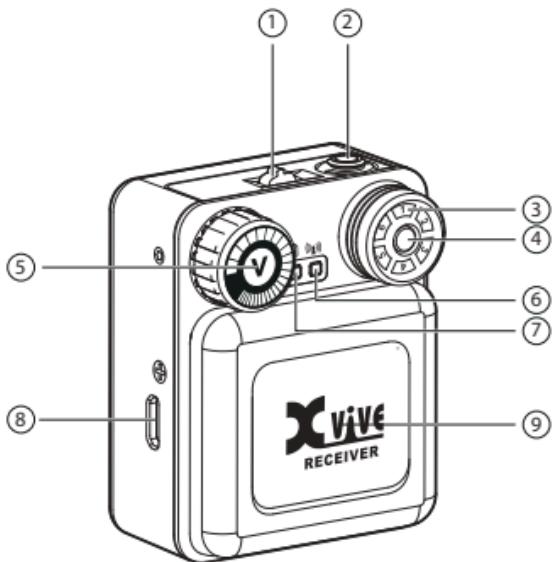
BASIC OPERATION U45 TRANSMITTER



- ① Input: balanced XLR input jack
- ② Spring: Circumferential ground spring providing an accurate connection to the mating shell
- ③ Lock: secures transmitter
- ④ Aux/Line mode: connect to aux or line out
- ⑤ Power switch: switches unit on/off
- ⑥ Channel status LED: indicates selected channel
- ⑦ Channel switch: selects channels 1-6
- ⑧ USB charging port
- ⑨ Power status LED, indicates power status:
 - LED off = 100% ~ 30%
 - Solid red = 29% ~ 11%
 - Flickering red = less than 10%
- ⑩ Antenna

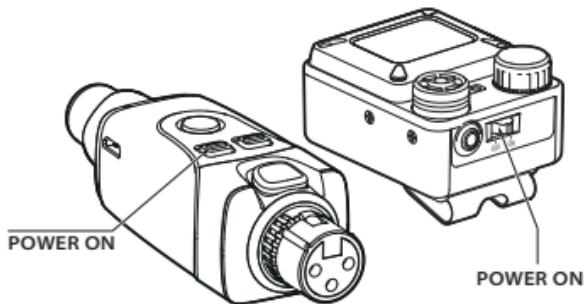
BASIC OPERATION

U45 RECEIVER



- ① Power switch: switches unit on/off
- ② Headphone Output: 3.5mm output
Connect to earphones or headphones
- ③ Channel status LED: indicates selected channel
- ④ Channel switch: selects Channels 1-6
- ⑤ Volume control: adjust the volume of headphone output
- ⑥ RF Status LED:
ON = Transmitter is on and link is established
Flashing = Signal connection interference
OFF = Transmitter off or unlinked
- ⑦ Power status LED, indicates power status:
Led off = 100% ~ 30%
Solid red = 29% ~ 11%
Flickering red = less than 10%
- ⑧ USB charging port
- ⑨ Antenna

QUICK START



POWER ON

Turn the power switch to the 'on' position: the channel indicator will light up.

BATTERIES AND CHARGING

U45 includes a USB charging cable, which you can connect to a USB charger adapter or other USB charging device.

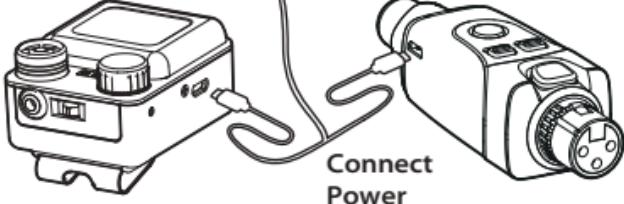
Note: Turn off the power switch while charging. Please do not use U45 while charging—this may reduce battery life.

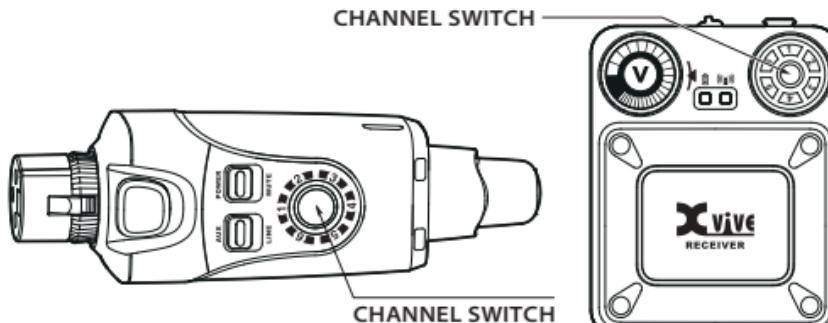
Connect to the socket



- * Always store U45 at room temperature
- * When storing the unit, please check the battery state regularly and charge if necessary.

CHARGING TIMES	BATTERY LIFE
0:15	30 min
0:30	1 hours
1:00	2 hours
2:30	5 hours





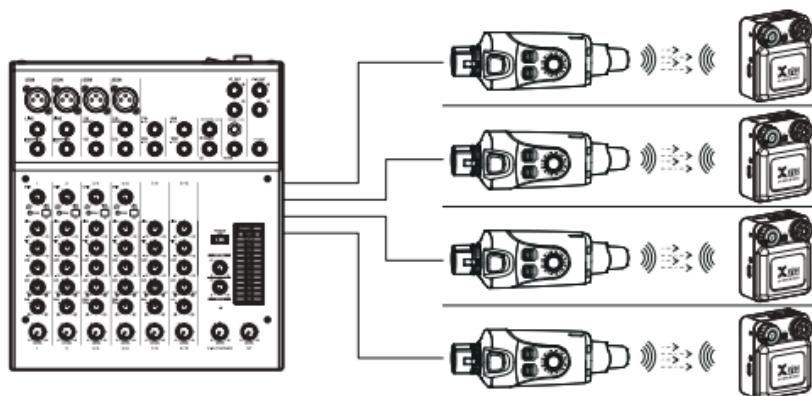
PAIR TRANSMITTER AND RECEIVER

U45 has six channels.

Use the channel switch button to switch the channel. Set the Receiver channel to the same channel as on the Transmitter. The blue LED on the receiver will always be on when the connection is successful.

SINGLE TRANSMITTER AND MULTIPLE RECEIVERS

If you want to add more receivers, just set all the receivers to the same channel as the transmitter.

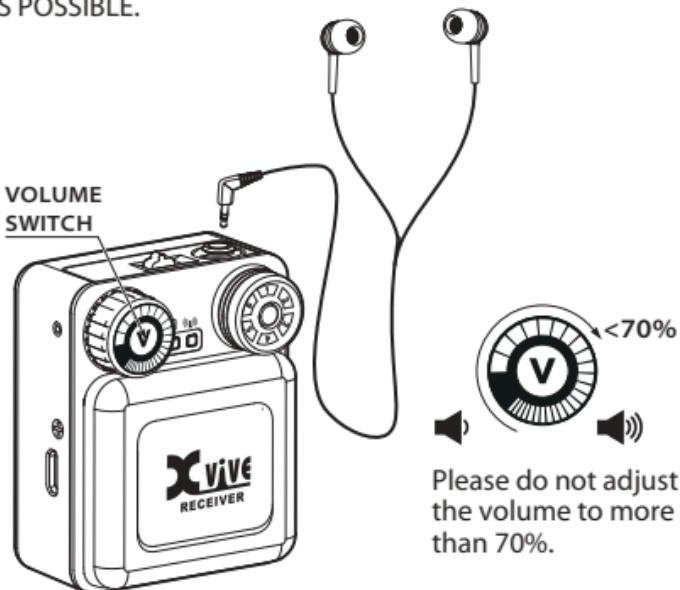


MAX. 6 CHANNELS

QUICK START

VOLUME ADJUSTMENT

LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE.

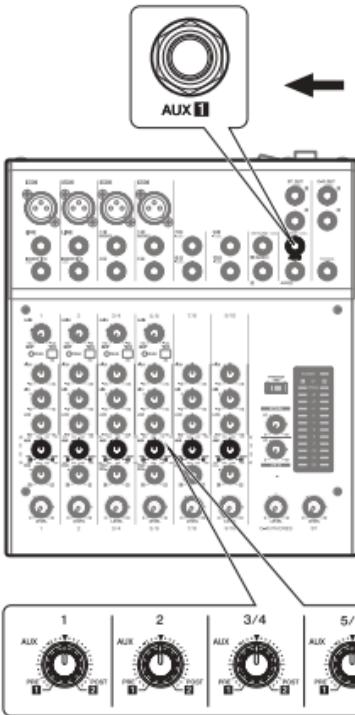


ADJUST TRANSMITTER LEVELS

Adjusting Gain and Listening Volume:
For the best audio quality, start by adjusting the levels from the mixer or audio source to maximize the signal-to-noise ratio.

Line (+4 dBu)	Use with mixers or other professional audio devices that send line-level signals.
Aux (-10 dBV)	Use when connecting consumer audio devices such as portable audio players or computers.

OPERATION



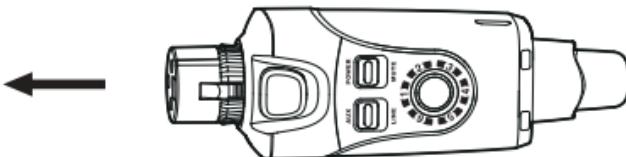
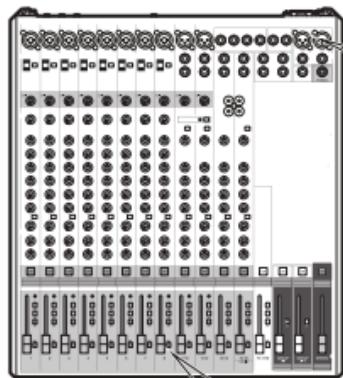
CREATING A MONITOR MIX WITH AUX

1. Connect the Transmitter to the Aux send on the mixer that you want to use.
2. Turn on the Receiver and gradually turn up the volume until you reach the desired level.
3. Set up your mix: adjust the levels of each channel's send to the Aux output you're connected to, and the Aux channel's master output level.

Note: The channel faders on most mixers do not affect the volume of the Aux sends.

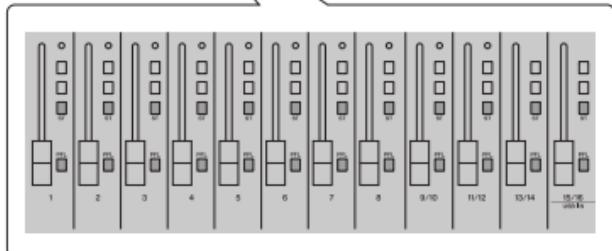


OPERATION

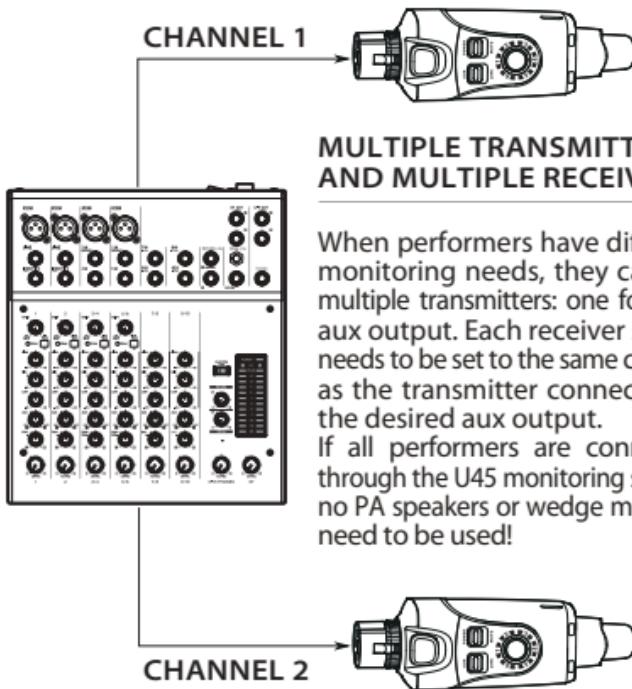


CREATING MONITOR MIXES WITH XLR

1. Connect the Transmitter to the Mixer's main output or other XLR output
2. Turn on the Receiver and gradually turn up the volume until you reach the desired level.
- 3 Set up your mix: adjust the fader levels of each channel as desired, as well as the master output level.

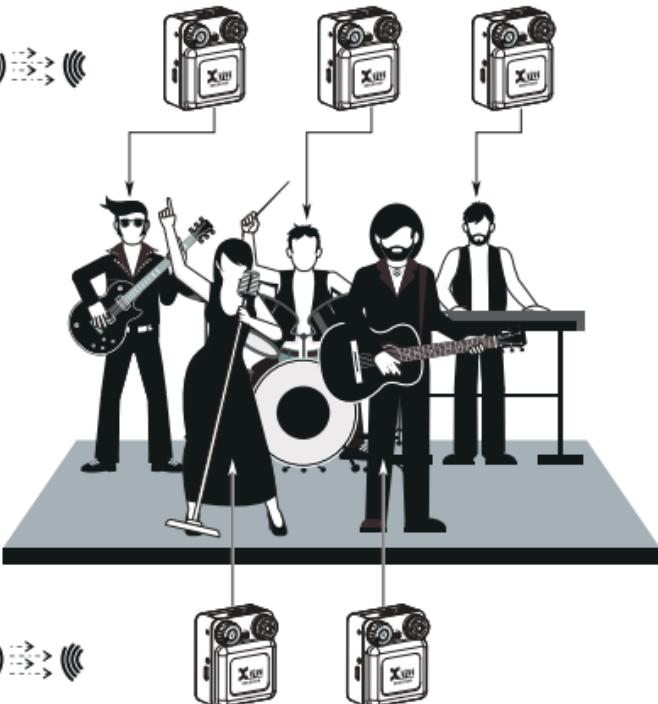


OPERATION



MULTIPLE TRANSMITTERS AND MULTIPLE RECEIVERS

When performers have different monitoring needs, they can use multiple transmitters: one for each aux output. Each receiver simply needs to be set to the same channel as the transmitter connected to the desired aux output. If all performers are connected through the U45 monitoring system, no PA speakers or wedge monitors need to be used!



5.8 GHz WIRELESS OVERVIEW AND INTERFERENCE

U45 operates on the 5.8 GHz ISM band, which is also used by Wi-Fi, Bluetooth, and other wireless devices. 5.8 GHz is an open band and, as such, does not require a license to be used worldwide.

Tips and Methods to Improve Wireless System Performance

- 1) Keep more than 3 metres of distance between the U45 receiver unit and Wi-Fi transmitters, such as routers.
- 2) If you experience interference from Wi-Fi devices in the vicinity, try changing to a different channel on the U45 transmitter and receiver.
- 3) If necessary, shorten the distance between the transmitter and receiver units.

5.8 GHz Frequency Tables

CHANNEL 1	5730 MHz, 5842 MHz, 5844 MHz
CHANNEL 2	5736 MHz, 5833 MHz, 5835 MHz
CHANNEL 3	5742 MHz, 5827 MHz, 5829 MHz
CHANNEL 4	5756 MHz, 5803 MHz, 5805 MHz
CHANNEL 5	5785 MHz, 5811 MHz, 5813 MHz
CHANNEL 6	5780 MHz, 5791 MHz, 5797 MHz

* Up to six U45 sets can be used simultaneously in one area

TROUBLE SHOOTING

ISSUE

No Sound

Distorted Audio

Low audio output at the receiver

Signal instability: RF LED flickering

Unable to switch the channel

Multiple connect

SOLUTION

- Check that the U45 Receiver's RF LED is lit.
- Check whether the device has a signal sent to the Transmitter
- Check that the power switch is turned on for both the Transmitter and the Receiver.
- Ensure that the U45 Transmitter and Receiver are on the same channel.
- The Receiver can be paired with one Transmitter at a time.

- Check the Line/Aux setting on the transmitter and verify that the meter is not overloading.
- Check the levels going in and out of the mixer.
Verify that no distortion occurs in each audio signal.

- Check receiver headphone output Volume level
- Check Transmitter mode (Line/Aux).
- Check whether the device is sending sufficient signal level to the transmitter.

- See, "Tips and methods to improve wireless system performance" on page 13.

- The channel switch locks after 15 seconds. Double-click the channel button to unlock and reset.

- Make sure the receivers are all set to the same channel as the transmitter you want them to receive audio from.

SPECIFICATIONS

U45 WIRELESS IN-EAR MONITOR SYSTEM

Tuning Bandwidth	5.8G
Working Range	Up to 90ft actual range; depends on RF signal absorption, reflection and interference.
Audio Frequency Response	20Hz – 20KHz(-3dB)
Dynamic Range & Signal-To-Noise Ratio	110dB
Battery Life	5 Hours
RF Sensitivity	-88dBm
Total Harmonic Distortion	0.2%
RF Output Power	25 mW E.I.R.P. max
Operating Temperature Range	0°C to 45°C(Battery characteristics may limit this range.)
Channel Count	Up to 6
Latency	Less than 5ms
High Resolution audio	24-bit/48kHz

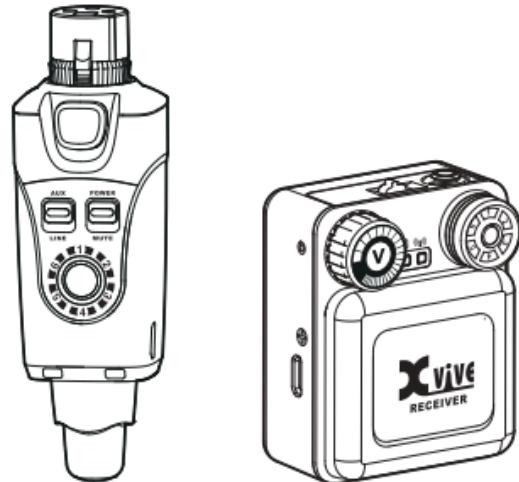
	U45 TRANSMITTER	U45 RECEIVER
Dimensions	30 X 28 X 100 mm	47 X 41 X 60 mm
Weight	90g	118g
Housing	Molded plastic and cast metal	Molded plastic and cast metal
Battery	3.7V Rechargeable Li-ion, 860mAh	3.7V Rechargeable Li-ion, 1200mAh
Impedance	Input 220Ω (1KHz)	6-600Ω
Audio Input Connector	Balanced XLR Male input	
Audio Output Connector		3.5mm dual mono output
Mode	Aux mode: -10dBV Max. +12.2dBu Line mode: +4dBu Max. +22dBu	
Battery life	Up to 5 Hours	Up to 5 Hours
Antenna Impedance	50Ω	50Ω
Antenna Type	1/4 Wave Sleeve Dipole, Non-removable	1/4 Wave Sleeve Dipole, Non-removable
Number Of Antennas	1	2

U4 SERIES

U45 SET

1 Transmitter + **1** Receiver

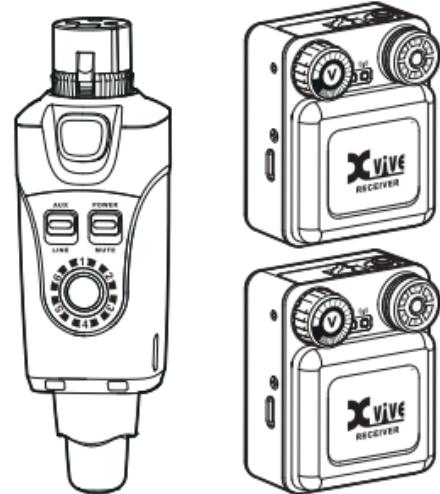
U45 standard set to create personal monitoring system



U45R2

1 Transmitter + **2** Receiver

U45R2 set to create small monitoring system or backup receiver

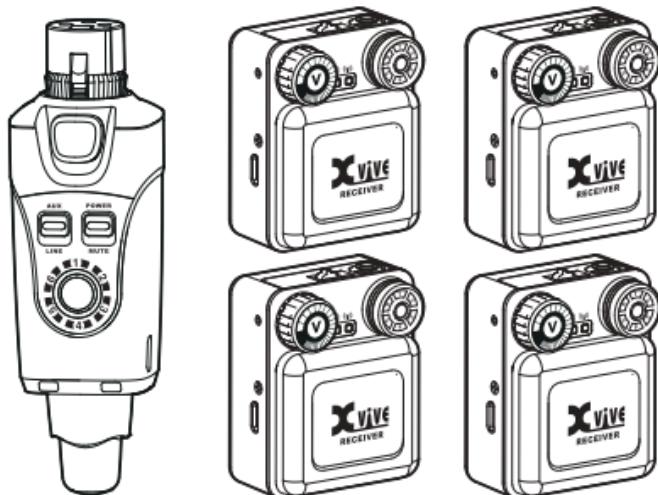


WIRELESS IN-EAR MONITOR SYSTEM

U45R4

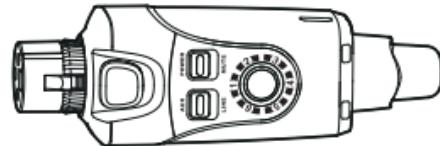
1 Transmitter + 4 Receiver

U45R4 set to create performance monitoring system or "private" rehearsal system



U45T

1 Transmitter



Transmitter only; you need to purchase receivers separately

U45R

1 RECEIVER

Receiver only; you need to purchase transmitter separately

