



U45D

**STEREO
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.

The Korea version has passed KC certification.

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

IC CAUTION:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- (2) 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.

FCC ID: 2AJ30-U45D IC: 22031-U45D



WARNING: Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

SAFETY INSTRUCTIONS FOR LITHIUM-ION RECHARGEABLE BATTERIES

U45D is not user-serviceable. Please contact Xvive or your dealer if you need service assistance.

- 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

[For users in the European Union]

These symbols on the products, packaging, or on any documents in the package (valid only in the EU) 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.



Cd

[For users outside the European Union]

Please contact your local authorities or dealer for more information on disposal of old items and used batteries.

[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.

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.

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.
- 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 warranty inquiries not covered in this policy,
please contact support@xviveaudio.com

IMPORTANT SAFETY INSTRUCTIONS PLEASE READ THESE INSTRUCTIONS AND KEEP THEM IN A SAFE PLACE



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

1. Observe all instructions carefully in the U45D manual.
2. Do not to perform service operations beyond those described in the U45D 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.

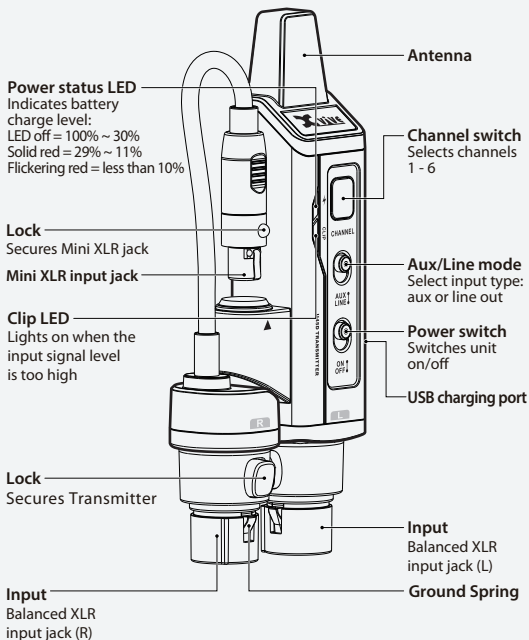
Overexposure to excessive sound levels can damage your ears, resulting in permanent noise-induced hearing loss. Do not use earphones for a long time and set the volume below 70%.

PRODUCT INTRODUCTION

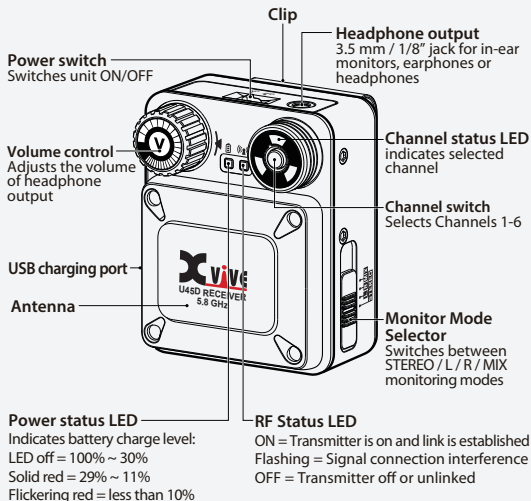
FEATURES:

- 5.8 GHz stereo in-ear monitor wireless system
- Dynamic range: 110 dB
- 24-bit / 41.6 kHz audio with wide 20 Hz – 20 kHz frequency response
Note: Our engineers chose 41.6 kHz as the sample rate for U45D because they found it to be optimal for the system's performance in true stereo.
- Less than 5 ms latency for seamless monitoring
- Stereo audio input via balanced XLR or unbalanced TS (via adapters)
- 4 selectable output modes: STEREO / L / R / MIX
- 5 hours of battery life (rechargeable battery in both Transmitter and Receiver)
- Solid RF connection over a 100-foot range (actual range depends on RF signal absorption, reflection and interference)
- Supports 6 channels in total
- Secure hardware design prevents accidental power or volume changes
- Provides smooth frequency response with any headphones/earphones/IEMs
- Package includes: Transmitter / Receiver / USB-C cable / XLR-1/4" adapter/ Mini XLR-1/4" adapter

OVERVIEW: U45D TRANSMITTER



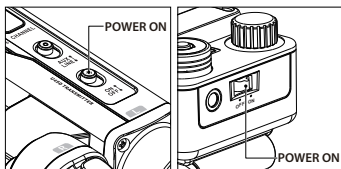
OVERVIEW: U45D RECEIVER



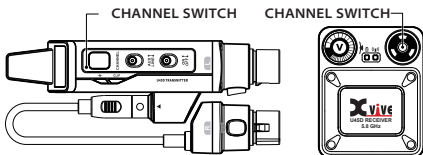
QUICK START

POWER ON

Turn the power switch to the "ON" position: the channel indicator will light up.



CHANNELS AND MODES



- U45D has 6 channels. Short-press the Channel Button to cycle through channels 1–6.
- Set the Receiver channel to match the Transmitter channel.
- The RF Status LED on the Receiver stays on when the connection is established.

RGB Channel Indicator: Displays the current channel color

Channel 1	Red	Channel 4	White
Channel 2	Yellow	Channel 5	Cyan
Channel 3	Green	Channel 6	Pink

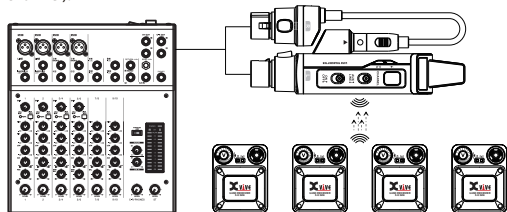
SINGLE TRANSMITTER AND MULTIPLE RECEIVERS

To send a signal from one Transmitter to multiple Receivers, select a channel and set the Transmitter and all Receivers to the same channel

MULTIPLE U45D SYSTEMS IN THE SAME AREA

When operating multiple U45D systems in the same area:

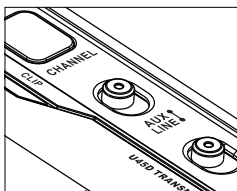
Up to six U45D systems can be used simultaneously (one system per channel).



ADJUSTING 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 to unbalanced audio outputs such as 1/4" TS aux outputs for monitor mixes.

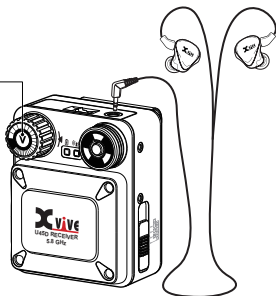
VOLUME ADJUSTMENT

Listening to audio at excessive volumes can cause permanent hearing damage. Use at as low a volume as possible.

VOLUME SWITCH



Please do not adjust the volume beyond 70%.



SCAN FOR THE BEST CHANNEL

Press and hold the channel button on the Receiver for 3 seconds to enter Channel Scan mode. The Receiver's channel LED will flash during scanning and then will stay on the optimal wireless channel.

When scanning is complete, power on the Transmitter and manually set its channel to be the same as the Receiver channel.

* Before starting the scan, please turn off the power of the Transmitter to be paired, to prevent its wireless signal from interfering with the scan.

CHANNEL SWITCH

Press and hold for 3 seconds

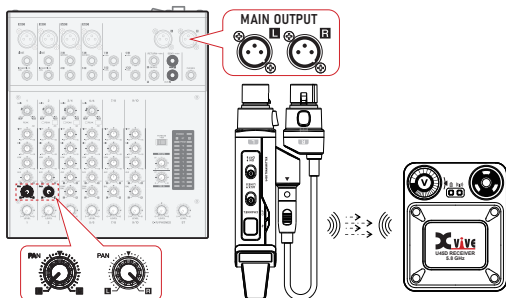


CREATING A MONITOR MIX

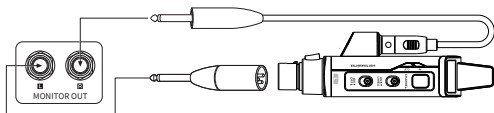
STEREO CONNECTION

For stereo operation, use both Transmitter modules:

- Connect the main Transmitter module (L) to the left channel of your mixer output.
- Connect the Stereo Expansion Module (R) to the right channel of your mixer output.
- The R module is pre-connected to L via Mini XLR; no additional connection is needed for stereo operation.
- Pan the mixer's left and right channels fully L-R to create a true stereo field pre-Transmitter. This ensures that the U45D Receiver passes on accurate stereo imaging to your in-ears.



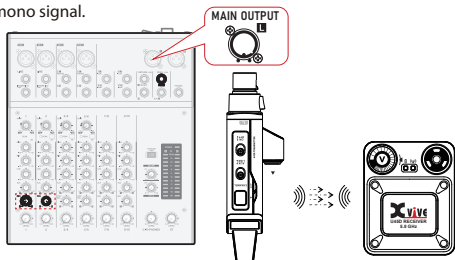
The included XLR male to 1/4" TS adapters can be used to connect to 1/4" outputs on the mixer.



CREATING A MONITOR MIX

MONO CONNECTION

When only the main Transmitter module (L) is used, the system transmits a mono signal.



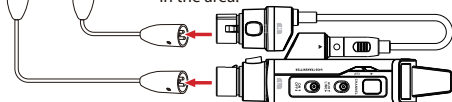
Note:

1. The main Transmitter module (L) includes all functional controls, indicators, and mode switches.
2. For stereo operation, the R module must remain connected to L via the Mini XLR. To transmit mono only (L channel), detach R from L using the lock mechanism.

EXTEND THE EFFECTIVE RANGE



Using an XLR cable (not included) as an extension for a Transmitter allows you to connect your Transmitter to a mixer where the outputs are very close together. It can also resolve wireless signal interference issues if you have too many wireless units in the area.



RECEIVER AUDIO OUTPUT MODES

The Receiver offers four output modes: STEREO, L, R, and MIX. The Transmitter sends two audio signals (Left and Right), and the Receiver determines how those two signals are passed on to the IEMs/headphones.

TRANSMITTER INPUT

L only

RX Mode	Left Ear	Right Ear
L	✓	✓
R	✗	✗
STEREO	✓	✗
MIX	✓	✓

R only

RX Mode	Left Ear	Right Ear
L	✗	✗
R	✓	✓
STEREO	✗	✓
MIX	✓	✓

L + R

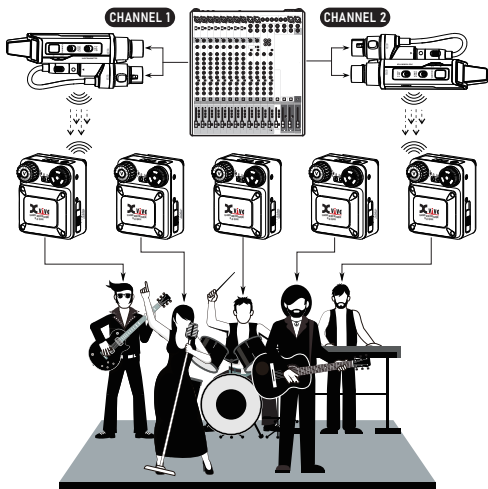
RX Mode	Left Ear	Right Ear
L	L	L
R	R	R
STEREO	L	R
MIX	L + R	L + R

Note 1: The main Transmitter module (L) includes all functional controls and indicators. For stereo operation, the R module must remain connected to L via Mini XLR. For mono, detach R by unlocking and unplugging it.

Note 2: The main (L) Transmitter module is always required for wireless audio transmission—so if you ever want to transmit audio only from the output connected to the R module, do so by muting the channel that the L Transmitter is connected to, not by disconnecting the L Transmitter.

MULTIPLE TRANSMITTERS AND MULTIPLE RECEIVERS

When performers want to monitor in stereo and have different monitoring needs, multiple U45D systems can be used, provided the mixer being used has aux outputs that can be linked into stereo pairs—one pair for each mix. So, for example, if you have a lead singer and a guitarist who have specific needs for their monitor mix, but the bassist and drummer are able to share the same mix, you will need three sets of aux output pairs, three U45D Transmitters, and four U45D Receivers. If the outputs are TRS or TS, use ¼"-to-XLR adapters to connect to the U45D Transmitter L and R modules.



BATTERIES AND CHARGING

U45D includes a USB charging cable, which you can connect to a USB charger adapter or other USB power source (5V/2A or 5V/3A).

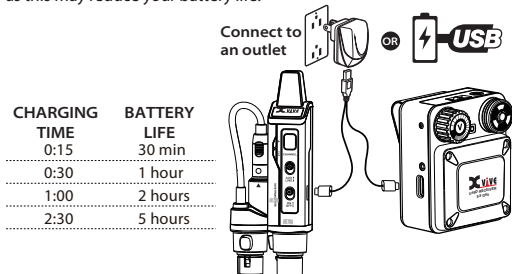
CHARGING REMINDER FOR LONG-TERM STORAGE

If the device is not used for an extended period, the battery capacity may decrease and the usage time may shorten. To maintain battery performance, fully charge the battery approximately every 6 months to prevent over-discharge.

Note: Turn off the power switch while charging. Please do not use U45D while charging—this may reduce battery life.

- * When the battery level is below 1%, the RF wireless section will turn off. The red power LED will flash until the battery is completely drained.
- * Always store U45D at room temperature.
- * When storing the unit, please check the battery state regularly and charge if necessary.

Turn off the power before charging. When the unit is fully charged, the red power LED will turn off. Do not use wireless system while charging, as this may reduce your battery life.



5.8 GHz WIRELESS OVERVIEW AND INTERFERENCE

Tips for improving wireless system performance:

- 1) Keep more than 3 metres of distance between the U45D 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 U45D Transmitter and Receiver.
- 3) If necessary, shorten the distance between the Transmitter and Receiver units.

INTERNATIONAL VERSION: 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

KOREAN VERSION: 5.8 GHz Frequency Tables

CHANNEL 1	5729 MHz, 5819 MHz, 5821 MHz
CHANNEL 2	5735 MHz, 5811 MHz, 5813 MHz
CHANNEL 3	5743 MHz, 5801 MHz, 5803 MHz
CHANNEL 4	5750 MHz, 5792 MHz, 5794 MHz
CHANNEL 5	5753 MHz, 5781 MHz, 5784 MHz
CHANNEL 6	5766 MHz, 5772 MHz, 5775 MHz

SPECIFICATIONS

Tuning bandwidth: 5.8 GHz

Working range: Up to 100 ft; actual range depends on RF signal absorption, reflection and interference

Frequency response: 20 Hz – 20 kHz (-3 dB)

Dynamic range: 110 dB

Signal-to-noise ratio: 110 dB

RF sensitivity: -88 dBm

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: Six

Latency: Less than 5 ms

High-resolution audio: 24-bit / 41.6 kHz (in either stereo or mono mode)

TRANSMITTER

Dimensions: 50 x 25 x 128 mm

Weight: 148 g

Housing: Molded plastic and cast metal

Battery: 3.7V rechargeable Li-ion, 860 mAh

Input impedance: Input: 220 Ω (1 kHz)

Audio input connector: Balanced XLR male input

Mode: Aux mode: -10 dBV | Max. +12.2 dBu

Line mode: +4 dBu | Max. +22 dBu

Battery life: Up to 5 hours

Antenna impedance: 50 Ω

Antenna type: 1/4 wave sleeve dipole, non-removable

Number of antennas: 1

RECEIVER

Dimensions: 47 x 41 x 60 mm

Weight: 120 g

Housing: Molded plastic and cast metal

Battery: 3.7V rechargeable Li-ion, 1200 mAh

Impedance: 6-600 Ω

Audio output connector: 3.5 mm dual mono output

Battery life: Up to 5 hours

Antenna impedance: 50 Ω

Antenna type: 1/4 wave sleeve dipole, non-removable

Number of antennas: 1

TROUBLESHOOTING

NO SOUND

- Check that the U45D Receiver's RF LED is on.
- Check that the audio source is sending a signal to the Transmitter.
- Check that the power switches on both the Transmitter and the Receiver are turned on.
- Ensure that the U45D Transmitter and Receiver are on the same channel.
- When the battery level is below 1%, the RF wireless section will turn off. The power red LED will flash until the battery is completely drained.

DISTORTED AUDIO

- Check that the Line/Aux switch on the Transmitter is correctly set.
- Check the levels going in and out of each channel of the mixer to identify the source of the distortion.

LOW AUDIO OUTPUT AT THE RECEIVER

- Check the Receiver's headphone output volume level.
- Check the Transmitter's mode setting (Line/Aux).
- Make sure the device is sending sufficient signal level to the Transmitter.

SIGNAL INSTABILITY: RF LED FLICKERING

- See "Tips for improving wireless system performance" on page 19.

UNABLE TO SWITCH THE CHANNEL

- The channel switch locks after 30 seconds. Double-click the channel button to unlock and reset.

MULTIPLE CONNECTIONS

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



PATENT PENDING

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MADE IN CHINA