Gimkuls®

TUC-702

Selectable UHF Frequency
2 Channels Wireless Microphone system

Gimkuls
TUC-702
CH-A
CH-B
SET
IR
SET
VOL-A
VOL-B
POWER
Gimkuls
Gimkuls

OWNER'S MANUAL

This equipment has been tested and found to comply with the limits for
pursuant to part 15 of the FCC Rules. These limits are designed to prov
protection againstharmful interference in a residential installation. This
uses and can radiateradio frequency energy and, if not installed and us
the instructions, maycause harmful interference to radio communication
is no guarantee thatinterference will not occur in a particular installation
equipment does cause harmfulinterference to radio or television recepti
determined by turning the equipmentoff and on, the user is encouraged
interference by one or more of thefollowing 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
connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly appro
could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subje
conditions:

(1)This device may not cause harmful interference, and (2) this device
interference received, including interference that may cause undesired

This equipment complies with FCC radiation exposure limits set forth fo
environment. This equipment should be installed and operated with mi
between the radiator and your body.

a Class B digital device,
vide reasonable
equipment generates,
ed in accordance with
ns. However, there
. If this
on, which can be
l to try to correct the

which the receiver is

oved by manufacturer

ct to the following two

must accept any
operation.
or an uncontrolled
nimum distance 0cm

Thank you for choosing the Gimkuls TUC-702 Series. To fully enjoy the capabilities of your new device and achieve the best performance, please read this user manual carefully before use. It contains important information to ensure proper operation. Please keep the manual for future reference.

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System Description

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The TUC-702 series was created with the mission of making excellent sound quality and professional features accessible to everyone-without the high cost. lts adjustable ultra-high frequency range offers greater flexibility in the face of external interference. The advanced audio circuit precisely scans the entire radio frequency environment and quickly identifies the best available frequency, ensuring outstanding wireless performance. Whether it's a live performance, wedding, church event, DJ set, conference, or public speech, the TUC-702 series helps minimize signal interruptions and dropouts, delivering reliable audio when it matters most.

System features

- The TUC-702 series features an adjustable ultra-high frequency band, making it highly compatible with multi-device coordination scenarios. lt offers 2 sets of 100 adjustable frequencies, providing ample frequency options for simultaneous operation of multiple devices.
- The product is equipped with an infrared sync function, greatly simplifying the pairing and operation process, allowing for easy device compatibility. The auto-scanning feature ensures precise frequency management by scanning the entire radio frequency environment and quickly locking onto the best available frequency. This effectively eliminates interference and signal loss, ensuring stable and reliable audio transmission throughout use.
- Thanks to the advanced circuit design, the product can achieve a stable transmission distance of up to 328 feet (about 100 meters), effectively expanding the signal coverage. At the same time, the product uses a dynamic pickup head with a cardioid directivity, which has excellent sound capture capabilities, can transmit the sound smoothly and noiselessly, and restore every detail of the sound.
- The TUC-702 series is designed to elevate your sound to new heights, delivering rich, warm, natural and flawless audio for an exceptional listening experience. Additionally, the product offers two types of transmitters and a wide range of accessories to meet your customization needs, allowing you to tailor your audio equipment setup based on specific use scenarios and personal preferences.

System components

Your system comes with a combination of the following components

Receiver

PWD-702	Dual-channel Wireless Receiver

Transmitters

PWH	Handheld Transmitter
PWB	Bodypack Transmitter

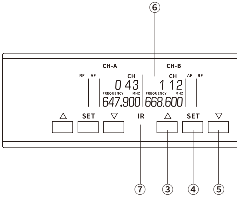
Accessories

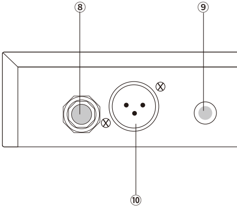
PWH	Black Headset & Lapel Mic Combo
PWD-702	Antennas for 200 UHF Band
	Power Adapter
	1/4" Audio Cable
	AA Batteries
	Anti-rolling Rings
	6.35MM to 3.5MM Adapter
	User's Manual

Functions

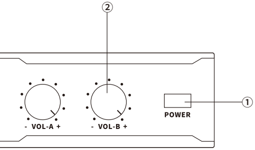
Receiver

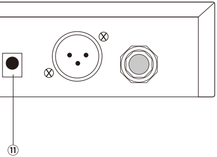
TUC-702





# of Parts





① Power button: Used to turn the device on and off.
When turned on, the working display will light up.

② Volume Control Knobs: Turn clockwise to increase the volume and counterclockwise to decrease it.
*** Note:** Before adjusting the volume for a specific channel, make sure each knob corresponds to the correct microphone.

③ Up button: Short press (touch) this button to increase the channel. Long press for 2 seconds to activate the lock function and unlock function.

④ Setting button: Short press (touch) this button to set infrared synchronization. Long press for 2 seconds to start the manual frequency selection function.

⑤ Down button: Short press (touch) this button to lower the channel. Long press for 2 seconds to automatically scan the frequency and automatically select the clean frequency in the current environment.

⑥ LCD Display

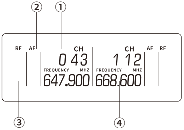
⑦ Infrared Window: Used for infrared synchronization settings.
***Note:** Please short press (touch) the setup button to start (LCD displays "F----").Then align the transmitter's IR window vertically with the receiver's IR window to complete the pairing.

⑧ Antenna: Used to connect the detachable antenna and receive signals from the transmitter.

⑨ 1/4" Combination Output Jack: The 1/4" (6.35 mm) output jack accepts an unbalanced TS-type headphone plug.

⑩ XLR Audio Output Jacks: The XLR Audio Output jacks accept balanced XLR plugs.
Each channel has its own corresponding XLR output jack.

⑪ Power jack



Channel number

RF signal indicator: It appears when the transmitter is successfully paired up with the receiver. When it disappears, the channel of the receiver receives no signal.

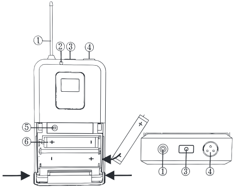
FA Audio Frequency: Display frequency-related information of the audio signal received or transmitted by the current microphone.

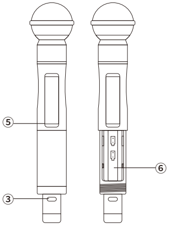
Frequency number

Transmitters

Bodypack transmitter
PWB-

Handheld transmitter
PWH-





① Antenna

② Battery Indicator: The indicator light remains green when the bodypack transmitter battery is fully charged. When the battery is low, the indicator light turns red.

③ On/Mute/Off Power Button: Press and hold the power button for 2 seconds to turn the transmitter on/off. Short press (touch) to mute the transmitter.

④ 3 pin XLR jack

⑤ Infrared Window: Used for infrared synchronization settings.

*** Note:** Please align the infrared window of the transmitter vertically with the infrared window of the receiver to complete the pairing.

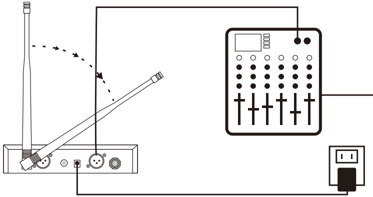
⑥ Battery compartment: Install batteries with correct polarity

Operation Guidanc

Single system setup

Step1:Connect and power up the receiver

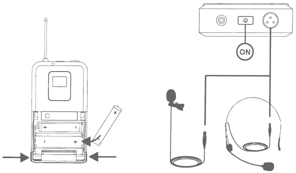
① Connect the antenna to the receiver via the ANT jack.
② Connect the power supply to the receiver via the power jack.
③ Connect the audio output to an amplifier/speaker or mixer via the 1/4" Mixed Outp
④ Press and hold (2 seconds) the receiver power button to turn it on.



Step2:Turn on transmitters

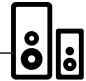
① Install new batteries with correct polarity.

② Press and hold the power button to turn on the transmitter
***Note:** The LCD screens of the handheld and bodypack transmitters will dim in stan
of the bodypack transmitter remains green to indicate it is powered on.

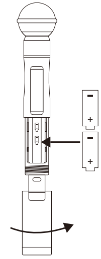


e

ut jack or XLR Audio Out jacks.

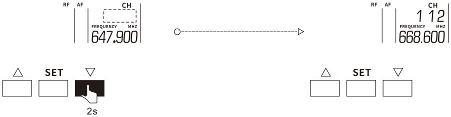


dby mode. The LED light on the top



Step 3: Sweep Frequency

Press and hold the "down" button on the receiver for 2 seconds, and the device will enter the automatic frequency scanning mode. The system will complete a comprehensive scan of the current environment within 4 seconds, intelligently analyze and eliminate interference signals, and finally lock and display the optimal frequency for the current environment. This process does not require manual intervention, thus ensuring you can quickly obtain stable wireless transmission even in complex electromagnetic environments.



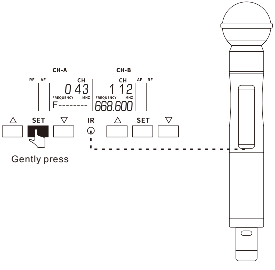
One-key automatic scanning to select the optimal frequency for the current environment.

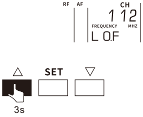
Step 4: For Frequency Mode

Click the "SET" button on the receiver.The device will immediately enter the frequency binding state, and the frequency on the working display will be displayed as "F-------". Then, bring the microphone close to the IR window of the receiver and keep still for 3 seconds to successfully complete the frequency binding operation.

Step 5: Locking

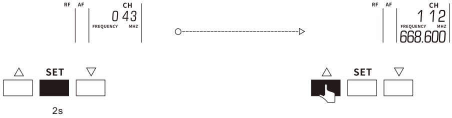
Press and hold the (up) button for 3 seconds, and the frequency on the working display will show that the device is now in a locked state. Please note that if you perform the above operation again, that is, press and hold the (up) button for 3 seconds again,the display will show "On" and the device will immediately enter the unlocked state.





Step 6: Manual frequency selection

Press and hold the (down) button on the receiver for 2 seconds, and the device will immediately enter the automatic frequency scanning mode. The system will complete a comprehensive scan of the current environment within 4 seconds, intelligently analyze and eliminate interference signals, and finally lock and display the optimal frequency without interference in the current environment . This process does not require manual intervention, ensuring that you can quickly obtain a stable wireless transmission experience even in a complex electromagnetic environment.



Multiple system setup

You are suggested to use no more than 16 transmitters simultaneously(band and RF environmentdepend).
Turn on any other equipment that could cause interference during theperformance so it willbe detected during the group and channel scansin the following stepsBefore you begin system set up, turn all receivers ON and all transmitters OFF.

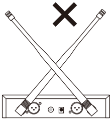
① Initiate the auto-scan function for a channel of a receiver.
② Turn on the first transmitter and pair it up with the receiver.
③ Repeat the above two steps until set up all channels.
④ Leave transmitters on and continue with additional systems according to the above three steps.

Troublesh

ISSUE	INDICATOR STATUS
No sound or faint sound	Receiver LCD screen off
	Receiver LCD screen on
Low battery	The battery indicator shows low battery status
Howling noise from speakers (also called feedback)	

Wireless

If you encounter wireless interference or dropouts,
- Replace the transmitter batteries.
- Choose a different frequency channel.
- Avoid approachingthe receiver and transmitters w
- Place the receiver as high as possible on the equip
- Remove any devices causing possible signal interf
players,two-way radios, and digital signal processo
- Keep transmitters more than 6 feet (two meters) a
- Mark trouble spots duringsoundcheck and Inform
- Place antennas away from each other.



ooting

CORRESPONDING SOLUTION
Make sure the DC adapter is securely plugged into an electrical outlet. Make sure the receiver is powered on.
·Make sure the transmitter is successfully paired with the receiver. You can check the frequency displayed on the receiver's screen and the frequency on the microphone to see if they match. ·Make sure the transmitter is successfully transmitting the audio signal. You should see "AF" flashing on the receiver's screen. If not, replace the transmitter's battery. If it still doesn' t work, replace the transmitter. Adjust the volume controls of the receiver and speaker to an appropriate level.
Replace fresh batteries for the transmitter.
Do not point the microphone directly at the speaker and increase the distance.

s Tips

try the following suggestions:

vith metal or other dense materials.

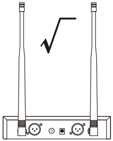
ment rack.

ference, such as cellphones,computers,media

rs.

part.

performers to avoid those areas.



Specification

Specification

Overall System

Channels:	200
Frequency Range:	500 - 950MHz
Frequency Response:	20Hz - 18KHz ± 0.5dB
Sensitivity:	100dB
Distortion:	< 0.5%
Signal - to - Noise Ratio:	> 95dB
Effective Operating Range:	> 60m

Transmitter

Transmitter Power:	5 - 18mW
Oscillation Mode:	PLL
Modulation Method:	FM
Image Control:	> 50dB
Frequency Deviation:	⩽ 50KHz
Power Supply:	DC - 3V
Power Consumption:	110mA/h

Receiver

Sensitivity:	2.0μV
Oscillation Mode:	PLL
Signal - to - Noise Ratio:	> 95dB
Power Supply:	DC - 12V
Power Consumption:	300mA

Technical Support & Warranty Information

Our warranty to you:

Gimkuls promises that the products sold by Gimkuls will not have significant defects in materials and workmanship within one year from the date of initial purchase and commissioning of the product. If you find that the purchased product has defects that fall within the scope of this warranty, Gimkuls has the right to repair or replace the product with new or refurbished parts at its sole discretion. All repairs or replacements will be performed strictly in accordance with the provisions of this warranty.

Product Failures Not Covered by This Warranty:

This warranty applies to manufacturing defects that occur during the proper use of the equipment. It is limited to defects in materials or workmanship and does NOT cover:

- Electrical or mechanical damage caused by abuse, misuse, unauthorized modifications, lack of reasonable maintenance, extreme temperatures (heat or cold), damage from environmental factors (e.g., water, dust, or moisture), or corrosive environments;
- Normal wear and tear of casings, housings, connectors, and accessories.

Limitation of Liability

If the Gimkuls product you are using fails or its performance does not meet the standards specified in this warranty, your only remedy is to replace or repair the product in accordance with the above warranty instructions.

Gimkuls is not responsible for any damages caused to you or any other third party due to the failure of this product. These damages include, but are not limited to: lost profits, lost savings, lost data, damage to other equipment, and all incidental or indirect damages arising from the use of this product or the inability to use this product.

In any case, the scope of Gimkuls's liability will not exceed the actual price you paid when purchasing the product, and the maximum will not exceed the current market price of the product.

How to obtain service under this warranty:

If the Gimkuls system you received has quality defects, or you have any questions about the operation method of the product, warranty scope, etc., please contact the store where you purchased it in time, and you can also communicate with us. You can tell us any problems you encounter or doubts in your heart, and Gimkuls's professional customer service representatives will contact you as soon as possible and provide you with professional and thoughtful help and support.