

MANUAL

UN350

*THE UNICOM MINI WIRELESS
COMMUNICATION SYSTEM*



6687 Rivergreen Road
Flowery Branch, GA 30542
(800) 513-9894
EMAIL: unicom@unicomsys.com
Unicomsys.com

Thank you for purchasing a United Communication System. . . .

Your Unicom product is engineered and designed to provide you with many years of reliable service. Unicom warrants its systems against defects in materials and workmanship for 5 years EXCEPT FOR earphones, headphones, rechargeable batteries, chargers, cables, antennas, carry cases and all other accessory products. Accessory products carry a 90-day warranty.

If the product fails within the specified warranty period, Unicom will determine whether to repair or replace the defective equipment. The warranty does not apply to physical damage, products that have been abused, misused, or modified.

If you experience difficulty with your system, call TOLL FREE for customer assistance:

(800) 513-9894

If it is necessary to return the system for service, your Customer Service Representative will give you a Return Authorization Number (RA) and shipping instructions. Pack the system carefully and send it to the address below.

Again, thank you for your purchase.



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Thank you again for choosing Unicom! We have designed this product to give you reliable operation over many years. Please take a few moments to read these instructions carefully, as we want you to enjoy your new UN350 Mini Wireless Communication System.

IMPORTANT SAFETY INSTRUCTIONS

**CAUTION: TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE
PRODUCT TO RAIN OR MOISTURE**

UNICOM products are engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. To ensure your safety and prolong the service life of your equipment, please read the following precautions and all collateral materials carefully before using the product.

1. Read and keep these instructions. Do not discard.
2. Heed all warnings.
3. Follow all instructions.
4. Do not use this device near water. Do not place objects filled with liquids, such as water bottles or drink containers directly near or on equipment.
5. Protect power cords from being walked on or pinched: especially at plugs, convenience receptacles, and the device's exit point.
6. Only use attachments/accessories specified by Unicom.
7. Unplug devices from wall outlets during lightning storms or when not in use for long periods of time.
8. Do not attempt to service the devices yourself. Please contact UNICOM, Inc. directly for maintenance, repair, or replacements.

HEARING SAFETY CAUTION!

Many of Unicom's products are designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing and the hearing of others:

1. Set the volume level at the minimum setting, then place the headphones on your ears and finally adjust the volume to a comfortable level.
2. If feedback (a high-pitched squealing sound) occurs, immediately move the receiver away from the transmitter and reduce the volume level.
3. Do not allow children or other unauthorized persons access to this product.

QUICK START GUIDE

Your UN350 Mini Language Interpretation System will be pre-configured at the factory and ready for you to use when it arrives.

Step 1. Remove contents from the shipping box and make sure you have all the system components that you ordered.

Step 2. The system should be fully charged and ready to use. The Interpreter should be set-up with the transmitter.

Step 3. Issue receivers to all guests. Make sure the receivers are turned "ON" and headphones are plugged into receiver headphone jack. Guests may adjust the headphone volume using the "+" or "-" on the receivers.

You should be able to start talking into the transmitter microphone and all guests should be able to hear you clearly.

If you have any interference issues, you may need to change the system to another channel. Please see the "Operating Transmitter" and "Operating Receiver" sections for information on changing channels.

RECHARGEABLE BATTERIES

The transmitter and receivers use a lithium-ion rechargeable battery. Use the multi-slot charging tray provided with the devices to charge the transmitters and receivers. Using smart charging circuitry, the transmitters and receivers will be fully charged in a maximum of 3 hours. Following a full charge, the batteries are designed to operate the transmitter for approximately 16 hours and a receivers for 25 hours.

To use the drop-in charging tray, plug in the power supply for the tray which is located in the back, lower left side of the charging tray. (See image below)



Insert each transmitter and receiver into the charging tray, making sure that the 5V/DC Input plug of each unit securely fits the charging post in the tray. You will hear a “click” when the receivers or transmitters are securely fit and the LED will turn red indicating the unit is charging.



(This unit is still charging, all other units are fully charged.)

Units are fully charged when the red LED turns off.

SYSTEM OVERVIEW

The Unicom 72 MHz Mini Language Interpretation System is a portable, high-performance communication system designed to be used for many types of communication applications. It is composed of four principal components: transmitter, microphone, receiver and headphone.

This system incorporates a new digital design with robust interference rejection. Built-in switching diversity antennas provide a more reliable and secure transmission of the FM signal.

The transmitter broadcasts a high-quality one-way audio signal to an unlimited number of receivers providing crystal clear FM quality audio to each listener. The transmission range of this system is 300 Feet LOS (Line of Site).

Transmitter



Receiver



Headset
Microphone



Headphone

HINTS TO USING THE UN350 WIRELESS INTERPRETATION SYSTEM

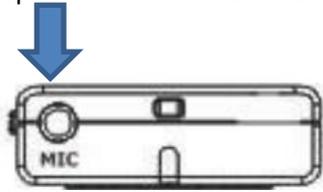
Maximum operating distance between the transmitter and receiver is 300 feet (LOS). The operating range will vary in different environments. The built-in switching diversity antennas will virtually eliminate drop-out (signal loss). If signal loss does occur, moving the transmitter a few feet in any direction should restore the signal.

Getting transmitters too close to one another may cause signal interference, even when they are set to a different channel. Maintain at least **three feet of separation** between transmitters to avoid signal interference.

Receivers are not subject to interference when in close proximity to one another therefore listeners may sit close together whether on the same or different channels. If a receiver gets too close to a transmitter, interference may occur. Maintain **three feet of separation** between a transmitter and receiver to avoid interference.

OPERATING INSTRUCTIONS: TRANSMITTER

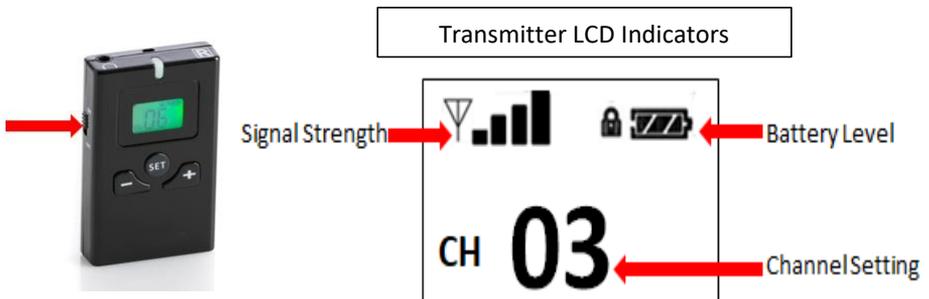
1. Plug the microphone into the 3.5mm audio input jack located on the top of the transmitter housing as illustrated below.



Note: Use only Unicom approved microphones; unapproved substitutions can greatly affect the overall performance of the system and may result in poor audio quality.

2. Turn the power switch of the Transmitter to “ON”. The LCD screen will turn on and the display will show the “Volume Level” for a second and then change to “Channel Number.” The LCD green backlight will turn off after 5 seconds and will turn back on when any button is pushed. The LED on top of the transmitter will turn green indicating the power is “On.”

Note: A Flashing Green light indicates low battery.



3. Always confirm that the channel number on the transmitter matches the channel number on the receiver(s).

Note: The UN350 System will be set-up for you at the factory with the Transmitter and Receivers set to Channel 03.

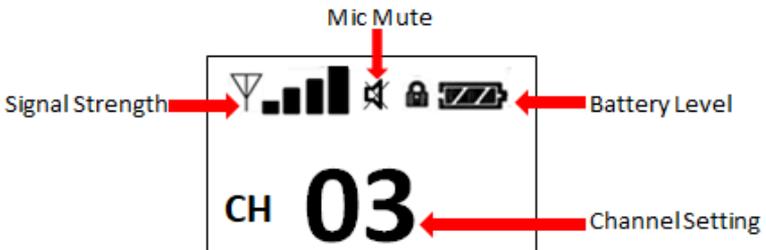
Change the Transmitter Channel

There may be times that you want to change the channel number. To change the Transmitter Channel:

1. To change channels on the Transmitter: ***Start with the transmitter in the “OFF” position press and hold the “+” and “-” buttons at the same time and also turn the transmitter to the “ON” position.***
2. Press the “+” and “-” buttons to scroll through the channel numbers (01 – 17).
3. When done, turn the transmitter to the “OFF” position to exit the programming mode.
4. Confirm that the channel number on the transmitter matches the channel number on the receiver(s).

Mute the Transmitter

To temporarily mute the transmitter, press and hold the “SET” button for two seconds until the MIC Mute icon appears. To unmute the transmitter, press and hold the “SET” button for two seconds until the MIC Mute icon disappears.



Adjust the Microphone output level

To adjust the microphone volume: In the “OFF” position, press and hold the “SET” button and turn the transmitter “ON”. Use the SET button to scroll through the volume level (01 – 02), the transmitter will lock once the backlit screen goes off.

NOTE: The volume level of the transmitter is factory set at 1. It is extremely unusual to need to adjust the transmitter’s volume.



OPERATING INSTRUCTIONS: RECEIVER

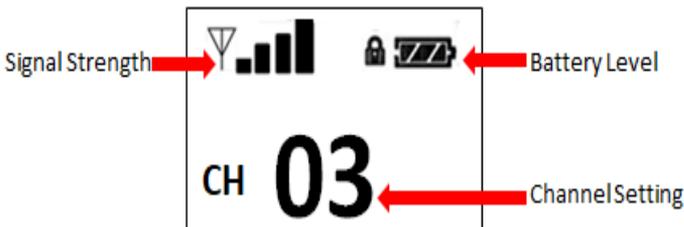
Receivers are designed to be worn comfortably with any type of clothing by holding it or using the over the neck lanyard.

1. Plug the headphone into the 3.5mm audio output jack located on the top of the receiver housing. Use only Unicom approved headphones/earphones, substitutions can greatly affect the overall performance and cause poor audio quality.



2. Turn the power switch of the Receiver to "ON". The LCD will turn on and the display will show the Channel Number for a second and then change to Volume Level. The LCD backlight will turn off after 5 seconds and will turn back on with the push of any button. The LED will turn green indicating the power is on.

Note: Green flashing indicates low battery.



3. Volume Control: To adjust, use the "+" and "-" buttons on the front panel to adjust the volume level from 0-8 (0 being the lowest setting and 08 the highest setting). The number located on the LCD display indicates the volume level setting.



4. To change channels on the receiver: Start with the receiver in the "OFF" position press and hold the "+" and "-" buttons and turn the receiver to the "ON" position. Press the "+" and "-" buttons to scroll through the channel numbers (01 – 17). When done, turn the receiver to the "OFF" position to exit the programming mode. Confirm that the channel number on the receiver(s) matches the channel number on the transmitter.
5. When finished using the Receiver, slide the "ON/OFF" switch to the "OFF" position.

Technical Specifications

Frequency Range: 72.1Mhz – 75.9Mhz

Modulation: Wide Band FM< 75kHz peak

Frequency Response: 200Hz – 13kHz

72Mhz Transmitter RF Output: 5dBm, 10dBm, 15dBm

Signal to noise ratio: 70dB

Audio Input: 3.5mm Mono plug

Power consumption 3.7V 40mAH

Operation time: 15 hours

Charging time: 3 hours

Weight: 35g

72Mhz Receiver Antenna: Headphone cable

Power consumption: 3.7V 15mAH

Operation time: 40 hours

Charging time: 3 hours

Weight: 34g.

OPERATING FREQUENCIES

CH 1	72.1MHz	CH 10	72.4MHz
CH 2	72.5MHz	CH 11	72.6MHz
CH 3	72.9MHz	CH 12	72.7MHz
CH 4	75.7MHz	CH 13	72.8MHz
CH 5	75.7MHz	CH 14	75.4MHz
CH 6	75.3MHz	CH 15	75.5MHz
CH 7	75.9MHz	CH16	75.6MHz
CH 8	72.2MHz	CH 17	75.8MHz
CH 9	72.3MHz		

CARE & CLEANING

CAUTION! Liquids can damage the electronics of the devices! Liquids entering the housing of the devices can cause a short-circuit and damage the electronics. Keep all liquids away from the Transmitters, Receivers, Charging Stations, Microphones and Headphones.

Transmitters and Receivers may be wiped down with a damp cloth.

The Headband and ear cushions of the Headphones may be cleaned with a damp cloth or anti-bacterial wipes.

FCC COMPLIANCE

These devices comply with part 15 of the FCC Rules. FCC regulations require the user to comply with the rules of transmitter operation. Any changes or modifications made by the user not expressly approved for compliance may result in the loss of privileges and authority to operate the equipment. Operation is subject to the following two conditions:

- 1) The device may not cause interference.
- 2) The device must accept any interference, including interference that may cause undesired operation of the device.

TROUBLESHOOTING:

Problem:

Solution:

Can't hear the person speaking/

Verify transmitter & receiver are both ON and fully charged.

No audio

Verify both are on the same channel/frequency.

Verify transmitter mic is not muted.

Make sure ear/headphone plug is inserted all the way into the jack of the receiver.

Try a different ear/headphone.

Try a different receiver.

Make sure the microphone is plugged into the transmitter and the headset is plugged into the receiver

Can't hear the person speaking

Adjust the volume on the transmitter.

above the room noise

Reposition the transmitter microphone closer to the mouth.

Limited Range

Verify the transmitter distance from the receiver-try bringing them closer.

Verify there are no other transmitters in the area on the same interfering channels.

Transmitter batteries low? Receiver batteries low?

Feedback (squealing)

Lower the microphone volume on the transmitter.

Increase distance between the transmitter and receiver.

Interference

If using two or more transmitters simultaneously be sure to not use adjacent channels

If you hear interference with the transmitter off then you need to change to a clear channel



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