



# SOUND TOWN

## PRODUCT MANUAL



Contents included are specific to the product model purchased.  
Additional accessories may be purchased separately at [soundtown.com](http://soundtown.com)

# NESO-U4

[www.soundtown.com](http://www.soundtown.com) • (323) 618-0688 • Los Angeles • California

# **SOUND TOWN NESO - U4 USER MANUAL**

## **VALID ON MODEL # : NESO-U4HH / NESO-U4HL / NESO-U4LL**

### **PROFESSIONAL 4-CHANNEL WIRELESS MICROPHONE SYSTEM**

Thank you for purchasing this Sound Town Wireless Microphone System. We strive to bring you professional equipment at an affordable price. If for any reason, you decide that our product is not for you, send us an email at: [support@soundtown.com](mailto:support@soundtown.com) or call us: 1-323-618-0688 within 30 days after your purchase and we will issue an RMA# for you to send your item(s) back to us for a refund or exchange, NO questions asked!

We also know that choosing the right gear can be the difference between a terrible performance and a rockstar like performance that could lead to future gigs and possible contracts. That is why we offer the best, most personal customer service in the industry. We are real people here to guide you in the right direction to make sure you get the right gear that will be ideal and work best in certain situation and various venues! We treat our customers the way we want to be treated, like family!

So not only will you receive the highest quality, most affordable gear in the industry, you will also receive top notch customer service, plus all the technical expertise you will ever need is just a phone call or email away! Join the Sound Town revolution and see what tens of thousands already know. Whether it is for the garage band, live sound, stage, or studio... Sound Town is bang for the buck, the best Pro Audio gear for all PA applications!

## **FEATURES**

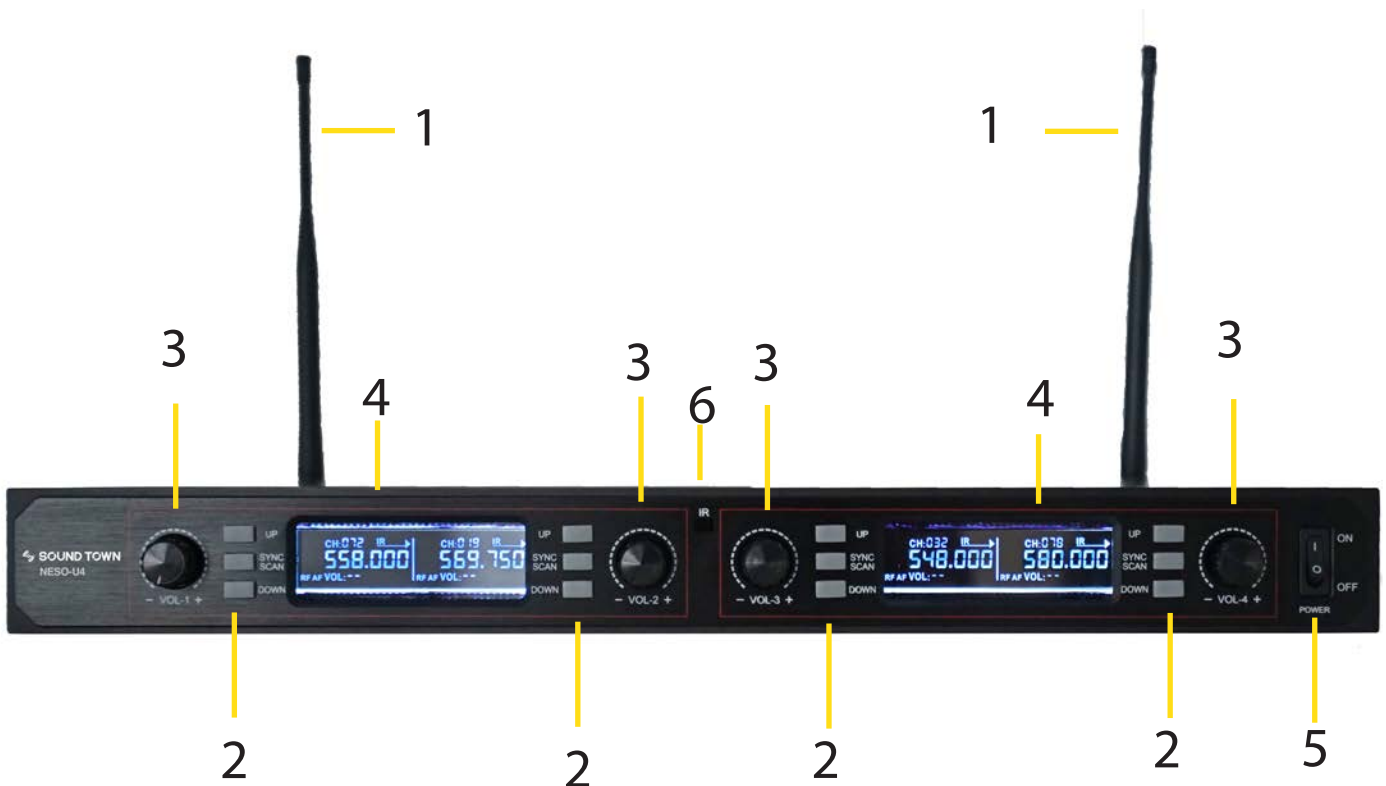
- Wide Frequency Response Digital Control Circuit - resists unwanted interference with a 60dB signal to noise ratio and a 45dB carrier wave.
- Silent Function - Silent switches and low THD (total harmonic distortion) protect your PA gear from pops and distortion.
- Wide Range - Wireless transmission is possible over 400 feet in good surroundings.
- Series Output Circuit - Can connect to an audio mixer or other PA equipment in multiple ways.
- Cardioid Pickup Pattern - Microphone sound pickup emphasizes main sound source and minimizes background noise.
- Windscreen and Pop Filter - Microphone design includes built-in windscreen and pop filter to minimize environmental noise and sibilant sounds in speech.
- High Quality Microphone Element - Microphone constructed for best audio quality possible.
- Adaptable - Receiver can work with multiple microphone types to allow for choosing the best equipment for the situation.

# SPECIFICATIONS

Operating Range: 400 ft. Line-of-sight  
Channel Selection: 200 UHF channels  
Frequency Range: 530-580 MHz  
Frequency Stability:  $\pm 0.05\%$   
Modulation Mode: 4 Channels, UHF  
Frequency Response: 40Hz-15KHz  
Dynamic Range: >100dB  
S/N: >100dB  
THD: <0.5%  
Audio Output: Individual Balanced XLR outputs, Mix Unbalanced TS or XLR  
Power Voltage: AC 110V or 220V  
Temperature Range: -4°F to 140°F  
Battery Life: up to 8 hours

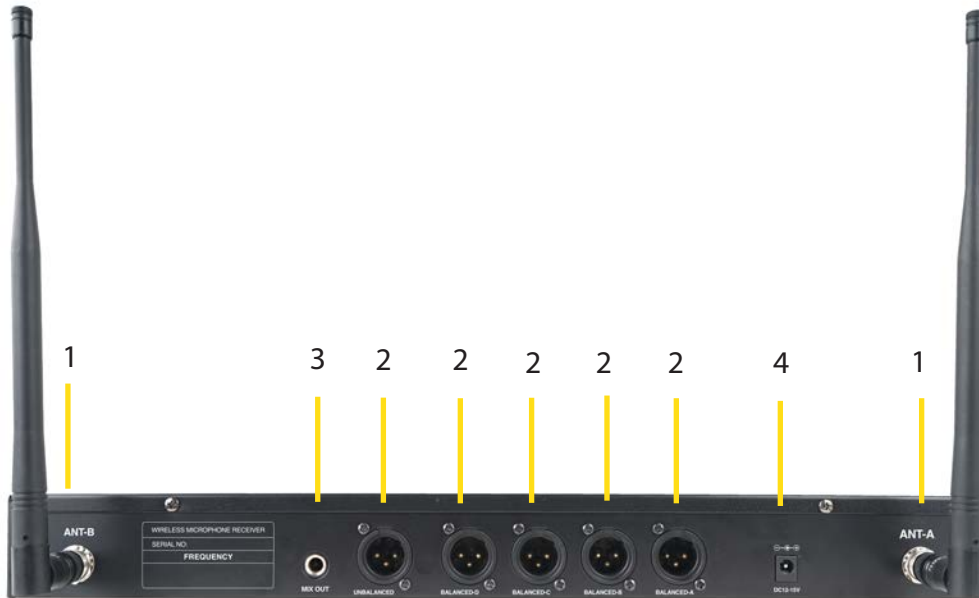
## RECEIVER FRONT

1. Antenna
2. Channel Select
3. Volume Control
4. LCD Display
5. Power Button
6. IR Sensor



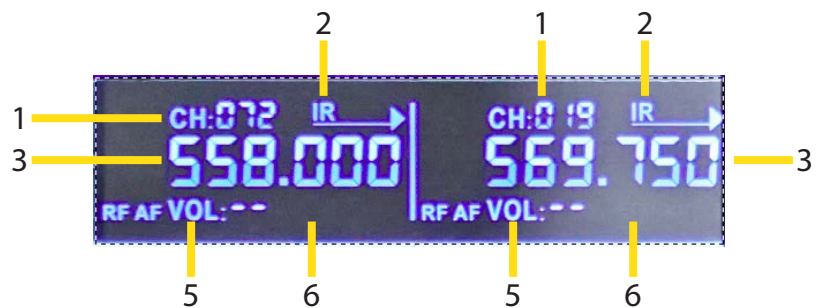
## RECEIVER REAR

1. Antenna Port
2. Individual Channel Output - 3-Pin XLR Male Connection
3. Mix Audio Output - 1/4" TS Female Connection or 3-Pin XLR Male Connection
4. AC Power Input



## RECEIVER LCD DISPLAY

1. CH - UHF Channel Number
2. IR - Indicator for IR Transmission
3. UHF Frequency
4. RF - Signal Strength Indicator
5. VOL - Not Used
6. Battery Level



## HANDHELD MICROPHONE

1. Windscreen and Pop Filter
2. LCD Display
3. Power ON/OFF
4. Battery Cover
5. HI/LO - RF Output Level Switch



## MICROPHONE LCD DISPLAY

1. Channel Frequency
2. Battery Level



## LAVALIER

1. Windscreen
2. Clip
3. Mini-XLR Output



## BODYPACK TOP

1. Mini-XLR Input
2. Power LED
3. Power ON/OFF
4. IR Receiver
5. Antenna



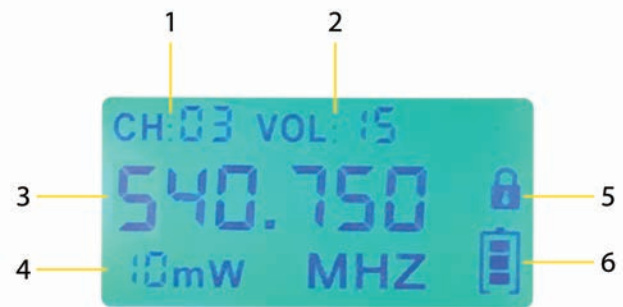
## BODYPACK FRONT

1. LCD Display
2. Battery Cover
3. Channel Select



## BODYPACK LCD DISPLAY

1. UHF Channel Number
2. Transmitter Volume
3. Channel Frequency
4. RF Output
5. Lock Indicator
6. Battery Level



## SETUP AND OPERATION

1. Connect NESO-U4 Receiver to PA system with XLR for individual channel sends or via TS for mix output.
2. Turn on NESO-U4 Receiver
3. Power on hand held microphone or bodypack.
4. To manually choose a frequency, press the UP or DOWN button located on the receiver until a desired frequency is selected. After selection is made, it becomes locked after 3 seconds.
5. To SCAN all frequencies for a clear channel, press and hold the SET button until the receiver starts scanning the available frequencies. A clear frequency is selected and becomes locked after the scan is complete.
6. To sync the receiver frequency with the handheld microphone or bodypack:
  - Power on handheld microphone or bodypack.
  - Press SET button once to begin frequency sync between the receiver and the handheld microphone or bodypack. The IR indicator on the receiver will begin flashing.
  - Point the LCD display on a handheld microphone or the top of the bodypack towards the receiver, approximately 6 inches from the center front face of the receiver.
  - The IR sync will tune the microphone or bodypack to the desired frequency on the receiver. The receiver will attempt to sync the frequency for approximately eight seconds.
7. Adjust volume with the volume control on the face of the receiver.
8. Repeat this procedure for each microphone or bodypack, while making sure that they do not use the same frequency.

## HANDHELD MICROPHONE ADDENDUM

1. In cases of extreme interference, it may help to toggle the HI/LO switch located inside the battery compartment.
2. Hold the tip of the microphone about an inch from your mouth, at about 45°. The most important thing is to maintain consistent microphone positioning for a consistent volume and tone. Varying the angle or the distance from your mouth will change the sound produced.

## BODYPACK ADDENDUM

1. To access additional settings on the bodypack, open the battery compartment and hold down SET until the lock icon on the LCD display changes to unlocked.
2. Press SET once to get manual control of the transmitter frequency. Press UP and Down to adjust.
3. Press SET twice to RF Output Power. On the LCD display, 10 mW will begin to flash. Press UP or Down to change to 5 mW. This can alleviate interference problems in certain situations.
4. Press SET three times to adjust internal volume of the bodypack. You can use this to fine-tune the volume of the lavalier microphone.
5. Press SET for the fourth time to return to the locked state. The bodypack is now ready for use.

# **TROUBLESHOOTING**

## **FAINT SOUND OR NO SOUND**

- Verify connections to PA system
- Adjust channel volume
- Turn on handheld microphone or bodypack
- Check that batteries are installed correctly.
- Change or charge batteries
- Verify AC adapter is plugged securely into AC outlet
- Check that receiver unit is powered on
- Verify that antennas are connected securely

## **AUDIO INTERFERENCE, ARTIFACTS, OR DROPOUTS**

- Change receiver and handheld microphone or bodypack to a different frequency
- Identify and remove sources of interference: mobile phones, Wi-Fi access points, signal processors, electronics, etc.
- Charge or change batteries
- Verify system is being used within recommended range.
- Move system away from metallic surfaces
- Provide line-of-sight from handheld microphone or bodypack to receiver unit antennas

## **DISTORTION**

- Lower channel volume
- Change or charge batteries
- Verify fidelity of signal cable to PA

## **IR SYNC NOT WORKING**

- Verify both units are turned on
- Hold the handheld microphone with LCD display turned towards the receiver
- Hold the bodypack with the top of the unit turned towards the receiver
- Hold the handheld microphone or bodypack 3 to 6 inches from the center front face of the receiver

If you are still experiencing issues after following this troubleshooting guide, please call us directly at (323) 618-0688 or email to [support@soundtown.com](mailto:support@soundtown.com) for expert assistance. The specifications and instructions provided in this manual are subject to change without notice.

**VISIT US AT: [WWW.SOUNDTOWN.COM](http://WWW.SOUNDTOWN.COM)**

Model#	Description
NESO-U4HH	NESO-U4 receiver + 4 handheld wireless microphones
NESO-U4HL	NESO-U4 receiver + 2 handheld wireless microphones +2 lavalier microphones + 2 bodypack transmitters
NESO-U4LL	NESO-U4 receiver + 4 lavalier microphones + 4 bodypack transmitters