



SOUND TOWN

PRODUCT MANUAL



Contents included are specific to the product model purchased.
Additional accessories may be purchased separately at soundtown.com

NESO-U2

www.soundtown.com • (323) 618-0688 • Los Angeles • California

SOUND TOWN NESO - U2 USER MANUAL
VALID ON MODEL # : NESO-U2HH / NESO-U2HL / NESO-U2LL
PROFESSIONAL DUAL-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 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 rock star 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: 2 Channels, UHF
Frequency Response: 40Hz-15KHz
Dynamic Range: >100dB
S/N: >100dB
THD: <0.5%
Audio Output: Individual Balanced XLR outputs, Mix Unbalanced TS
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 Knob
4. LCD Display
5. Power Switch
6. IR Sensor



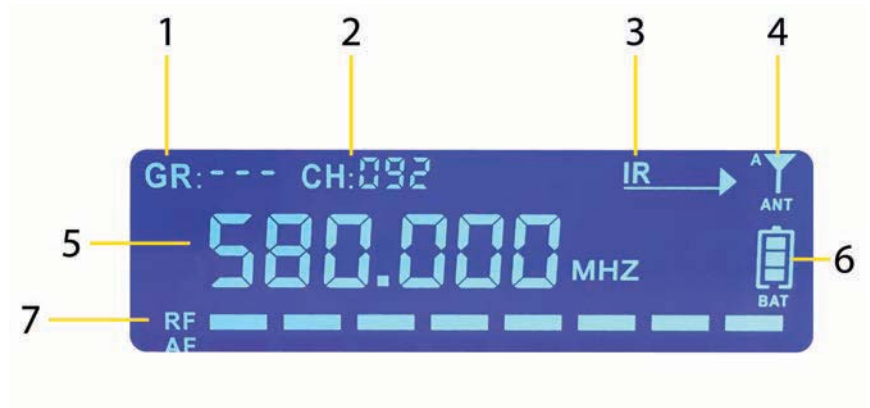
RECEIVER REAR

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



RECEIVER LCD DISPLAY

1. GR - Group Setting (Not Used)
2. CH - UHF Channel Number
3. IR - Indicator for IR Transmission
4. ANT - Antenna Use Indicator
5. UHF Frequency
6. Battery Level
7. RF - Signal Strength Indicator



HANDHELD MICROPHONE

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



HANDHELD MICROPHONE LCD DISPLAY

1. Channel Frequency
2. Battery Level



LAVALIER/LAPEL

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



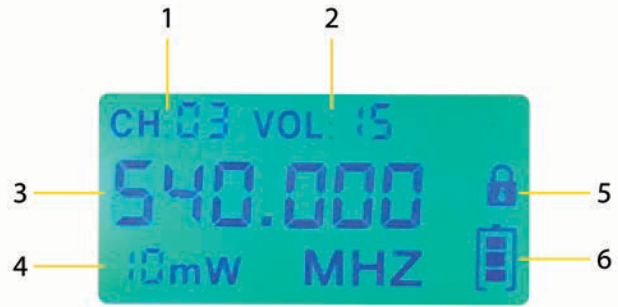
BODYPACK FRONT

1. LCD Display
2. Battery Cover (Requires 2 AA Batteries)
3. Channel Select / Set Functions



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 - U2 Receiver to PA system with XLR for individual channel sends or via TS for mix output.
2. Power on NESO - U2 Receiver
3. Power on handheld microphone or bodypack.
4. To manually choose a frequency, press the SET button on the receiver once. The frequency will begin to flash. Use the UP or DOWN button to adjust to desired frequency. The frequency number will continue to flash for five seconds after you make your choice. When it stops flashing, the frequency is set.
5. To scan for a clear frequency, press SET button on receiver twice. The LCD display will show the word SCAN and it will begin flashing. Press UP or DOWN button to begin the scan. It will automatically lock on the clearest channel.
6. To sync the receiver frequency with the handheld microphone or bodypack.
 - Power on handheld microphone or bodypack.
 - 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.
 - On receiver, press SET button three times. The IR indicator will begin to flash.
 - Press UP or DOWN to begin the sync.
 - 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 constant 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 access 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. Normal operation is 10 mW.
4. Press SET three times to adjust internal volume of the bodypack. You can use this to fine-tune the volume of the connected 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 for expert assistance. The specifications and instructions provided in this manual are subject to change without notice.

VISIT US AT: WWW.SOUNDTOWN.COM

Model#	Description
NESO-U2HH	NESO-U2 receiver + 2 handheld wireless microphones
NESO-U2HL	NESO-U2 receiver + 1 handheld wireless microphone +1 lavalier microphone + 1 bodypack transmitters
NESO-U2LL	NESO-U2 receiver + 2 lavalier microphones + 2 bodypack transmitters