

# OTTO®

## BLUETOOTH® REVO NC2 SPEAKER MICROPHONE

The Bluetooth® Revo NC2 brings wireless convenience and HD-Voice audio to a speaker mic. It offers hands-free listening, a noise-canceling mic and clear, convenient, push-to-talk audio transmissions for Bluetooth®-enabled two-way radios, mobile phones and tablets.



Models V2-R2BT53133-x and V2-R2BT13133-x

## SAFETY PRECAUTIONS

Please read these safety warnings and cautions carefully to ensure your personal safety and prevent property damage.

### USE AND SAFETY CAUTIONS

- Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects into the OTTO Bluetooth® Revo NC2 Speaker Microphone. Such actions could result in electric shock.
- Do not expose the speaker microphone to extremely high or low temperatures or leave in direct sunlight for extended periods of time.
- Do not leave your speaker microphone near open flames such as cooking burners, candles, or fireplaces. Do not dispose in a fire. The battery could explode, causing injury or death.
- Do not block any ventilation openings, which could cause battery hazard.
- Do not immerse in water. If accidentally immersed, wait until the speaker microphone is completely dry before attempting to power on.
- Do not attempt to repair, modify or disassemble your speaker microphone; it does not contain any user serviceable components.
- Dispose of the speaker microphone and the battery in accordance with local regulations.



### ELECTRIC SHOCK CAUTIONS

- Only charge the battery in temperatures between 32°F - 113°F (0°C - 45°C).
- Do not attempt to disassemble the speaker microphone or force open the built-in battery.
- Do not charge the unit in damp areas.
- Do not attempt to replace your speaker microphone battery; it is built-in and is not changeable.
- Be sure the USB port is dry before plugging in the charging cable.

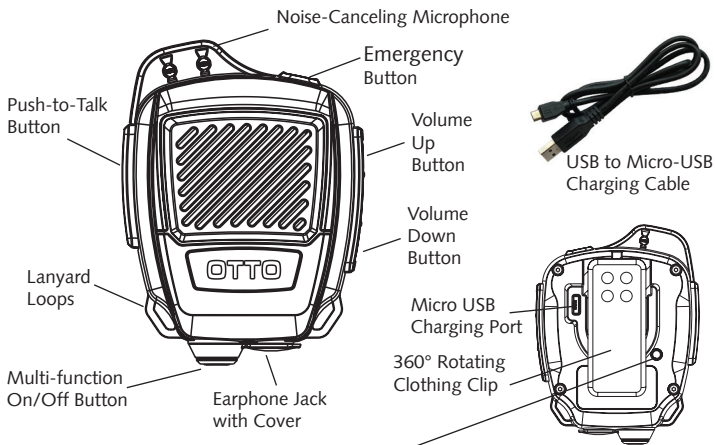
The Bluetooth® Revo NC2 features an ergonomic design ideal for demanding public safety, disaster recovery and emergency response teams, or teams using Bluetooth®-enabled two-way radios, phones and tablets to extend its communications network.

Compatible with selected two-way radios and mobile apps like ESChat® and Zello, the Bluetooth® Revo NC2 wireless connects to Bluetooth®-enabled devices to allow hands-free listening and clear, convenient, push-to-talk voice transmissions.

It may also be used to wirelessly receive phone calls and listen to music on mobile devices.

- Built-in HD-Voice audio ensures transmission clarity.
- Top-mounted microphone offers unparalleled passive noise-canceling performance.
- Integrated rechargeable battery provides up to 12 hours of service. Charges easily via the included USB cable.
- Built-in debris screen keeps dust and dirt from impacting transmission clarity.
- Meets MIL-STD-810 for high performance in harsh environmental conditions including 40 mph blowing rain.
- Compatible with select Bluetooth®-enabled two-way radios, smartphones and tablets.

## SUPPLIED EQUIPMENT



### LED Indicator Lights

Color	Indicates
Solid Red	Charging
No Light when charging	Charging is complete
Red fast flash twice	Low Battery
Red and Blue flash together 3 times	Power On complete
Red and Blue flash together 3 times	Power Off complete
No Light	Powered Off

Color	Indicates
Alternating Red and Blue flash continuously	Ready to Pair
Blue flash 10 times	Pairing Complete
Blue fast flash twice every 5 seconds	Paired
Blue fast flash 3 times	Incoming Call
Red and Blue flash together every 5 secs.	Music Mode
Flashing Red	Charging Error

### Charge the Speaker Microphone

The Bluetooth® Revo NC2 is powered by an integrated rechargeable battery. The battery should be fully charged before first use.

- Plug the charging cable into the Micro-USB charging port on the back of the unit (*Figure 1*). Plug the other end of the cable into a USB port in a computer, vehicle, or wall charger.
- The red indicator light will show solid red while charging and will turn off when the unit is fully charged. Battery charge time is approximately 3 hours.
- The rechargeable battery will supply approximately 12 hours of service before recharging is needed.
- Low battery is indicated by a flashing red indicator light.

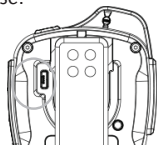


Figure 1

### Power On/Off the Unit

- Push and hold the multi-function button for 3 seconds or until the red and blue indicator lights flash 3 times and you hear a series of tones. When power is on, the blue light will flash once every 3 seconds until the unit is paired.
- To turn off, push and hold the multi-function button for 6 seconds until you hear a different series of tones.
- If the speaker mic is not paired with a device within 5 minutes, the unit will automatically power off to conserve the battery.
- Wait 5 seconds after the unit powers down before turning it back on to attempt to pair again.

## OPERATION, CONTINUED

### **Pairing**

The Bluetooth® Revo NC2 speaker microphone may be paired with a compatible Bluetooth®-enabled two-way radio or mobile device. Once connected, the microphone and speaker of the Bluetooth® Revo NC2 will be available for use.

When successfully paired, the Bluetooth® Revo NC2 will remain paired with the device, even when both the speaker microphone and the paired device are powered down. There is no need to pair the two again when powered back up.

Please note that Kenwood (except Viking VP series) radios have a different pairing mode than other devices and require different pairing methods on the Bluetooth Revo NC2. The Kenwood-specific steps are shown in italics below. Viking VP series radios are not subject to these steps and must be paired in the same manner as all other devices.

1. To enable pairing mode, hold down the multi-function button and the PTT button at the same time until you hear "Ready to Pair" and the indicator light flashes red and blue continuously. *For Kenwood radios: Hold down the multi-function button and the volume-down button at the same time until the Revo NC2 enters pairing mode.*
2. Follow the pairing instructions in the user guide for your mobile phone or tablet or your Bluetooth®-enabled two-way radio.
3. Select "OTTO\_PTT\_XXXX" in the pairing menu on your device. The Xs represent the serial number of your specific Bluetooth® Revo NC2 speaker microphone. Some devices, including certain two-way radios do not have a display. Follow the manufacturer's guide to engage the pairing mode. If the

device does not have a display and multiple devices are being paired with multiple speaker mics, only put one device into pairing mode at a time to avoid pairing the Bluetooth Revo NC2 with the wrong device. The speaker microphone will emit a tone when pairing is successful and the blue light will flash 10 times.

4. Pairing mode will time out after 150 seconds if the unit is not successfully paired with a device. Repeat steps 1-4 to attempt to pair again. *Kenwood radios: After "Connect" is chosen in the radio menu to connect to the Bluetooth Revo NC2, the radio will "call" the microphone and ring tones will be heard on the speaker mic. "Answer" the call by pressing the multi-function button once and releasing, and the radio will complete the connection to the Bluetooth Revo NC2.*
5. The Bluetooth® Revo NC2 speaker mic retains pairing information for as many as six devices. Check the Bluetooth® menu on the device to be sure the speaker microphone is paired with the correct device.
6. Clearing the pairing memory is not essential, but it can be done as desired. To clear the memory, perform the following operation:
  - Press the multi-function button once and release.
  - As soon as the blue/purple lights on the back of the speaker mic light up (after approximately two seconds), press the PTT button once and release. After a few seconds, a set of tones will be heard. The memory has been cleared.

## OPERATION, CON'T

### Volume Controls

- Raise the volume in steps by briefly pushing the Volume Up button. Hold the button down to instantly reach maximum volume.
- Lower the volume in steps by briefly pushing the Volume Down button. Hold the button down to instantly reach minimum volume.

### Attach to Belt or Clothing

The clip on the back of the Bluetooth® Revo NC2 can be rotated 360° to the best position to attach to your person. (Figure 2)

- Rotate the clothing clip on the back of the speaker microphone to the preferred position.
- Attach to belt, shirt, lapel, ballistic vest or other clothing for convenient operation.

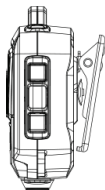


Figure 2

### Attach a Lanyard

To wear the speaker mic around your neck, simply attach a lanyard to the loops on the sides of the speaker mic (Figure 3). (Lanyard not included)



Figure 3

### Attach an Earphone Kit

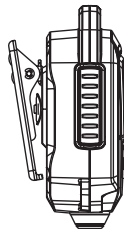
An optional earphone kit may be plugged into the audio jack to silence the external speaker and enable private listening. A full assortment of compatible earphone kits is available at [www.otto-comm.com](http://www.otto-comm.com).



### **Two-Way Radio Functions**

The Bluetooth® Revo NC2 connects wirelessly to compatible two-way radios. To use the speaker microphone with a radio, follow the instructions in the radio manufacturer's user manual.

- Push and hold the push-to-talk (PTT) button to transmit messages to others in the network.
- Release the button to end transmission and allow others to talk.



### **Mobile Device Functions**

To set up the Bluetooth® Revo NC2 to use with popular public safety mobile applications like ESChat or Zello, please follow the instructions included in the apps.

#### **Push-to-talk over Cellular Mode**

- Push and hold the push-to-talk (PTT) button to transmit messages to others in the network.
- Release PTT button to end transmission and allow others to talk.

**Call Mode** - Incoming calls are indicated by a ringing tone and a flashing blue light.

- Answer Call: Push and release the multi-function button once. A tone will sound.
- Reject Call: Push and hold the multi-function button for 3 seconds. "Call Rejected" will be heard.
- Hang Up: Push and hold the multi-function button for 3 seconds. A tone will sound.

## OPERATING MODES, CON'T

### Call Mode, continued

To toggle to a call waiting:

- Push and release the PTT button once to end the first call and answer the second call.
- Push and release the multi-function button once quickly to put the first call on hold and answer the second call. A tone will sound every 15 seconds as long as a call is waiting.
- Push and release the multi-function button to toggle between the calls.
- Push the multi-function button to hang up the active call and make the call waiting the active call.

**Music Mode** - The speaker microphone will play music stored on a mobile device.

- Choose the song/playlist on the mobile device and press play.
- Use Volume +/- buttons on the Bluetooth® Revo NC2 to control the volume.
- Push and release the multi-function button to pause play. Push and release again to resume play.
- Tap the Volume + button twice to skip forward one song.
- Tap the Volume - button twice to skip back one song.

- Clean the OTTO® Speaker Microphone only with a dry cloth.
- Do not clean the speaker microphone when it is being charged. Always unplug the charger first before cleaning the speaker microphone.
- Do not use abrasive cleaners to clean your speaker microphone because this could cause scratches and damage.

## SPECIFICATIONS

- Compatible with a growing number of two-way radios, smartphones and tablets
- Battery discharge time is approximately 12 hours with an 80-10-10 duty cycle
- Noise-canceling Speaker Mic Sensitivity @94 dB SPL: -35 dB Typical.
- Bluetooth® operating range: 10 meters
- Bluetooth 5.0 wireless communication standard
- Meets MIL-STD-810 for high performance in harsh environmental conditions including 40 mph blowing rain
- PTT switch life: 200,000 cycles
- Operating temperature: -4°F to 140°F (-20°C to 60°C)
- Storage temperature: -40°F to 158°F (-40°C to 70°C)
- 1-year warranty on battery; 2 years on speaker microphone

## FCC STATEMENT

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 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.

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to FCC Rules. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

**INDUSTRY CANADA NOTICE**

This device complies with Industry Canada's license-exempt RSS standard(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.

Le présent appareil est conforme aux CNR d'Industrie 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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



**Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems).**

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste by products. Contact your local authority for details for locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources while still preventing detrimental effects on our health and the environment.

Optional Earphone Kits	Part Number
Earphone with acoustic tube, 3.5 mm right angle plug, coil cord, black, high output	V1-11551
Earphone with acoustic tube, 2.5 mm right angle plug, coil cord, black, high output	V1-11550
Dual Earphone with SureFire noise attenuation, 3.5mm plug	V1-11149
Dual Earphone with SureFire noise attenuation, 2.5mm plug	V1-11148

Additional accessory options are available at [otto-comm.com](http://otto-comm.com)



For warranty information, customer service  
or replacement parts, please contact:

**OTTO**<sup>®</sup>

10 West Main Street • Carpentersville, IL U.S.A. 60110

Toll Free Phone: +1-888-234-OTTO (6886)

Phone: +1-847-428-7171 • Fax: +1-847-428-1956

E-mail: [info@ottoexcellence.com](mailto:info@ottoexcellence.com)

[www.otto-comm.com](http://www.otto-comm.com)