

The RT7000 (Fig. 1) is a transceiver used to facilitate communication with the NEXEO | HDX™ system. It uses a wired connection to the base station but is wireless for headset communication. Up to four RT7000s can be connected to the base station for greater coverage.

TOOLS/EQUIPMENT REQUIRED

- Drill and drill bit set
- Screwdriver (Phillips #2), tape measure, pencil/maker
- Cable Pull Equipment (fish stick/tape, pull string, cable ties, etc.)
- Safety glasses, ladder

INSTALLATION, SETUP, AND OPERATION

1. Survey the premises to determine a good location to mount the RT7000 (see "RT7000 Notes" on page 3 and Fig. 12 on page 4).
2. Route the Ethernet cable from the base station to the RT7000 location.
3. Loosely mount the RT7000 (until range tested with the Installation Wizard in step 7).
4. Connect the Ethernet cable to the RJ45 port on the rear of the RT7000 (see Fig. 2) and the other end to one of the available ports on the base station (see Fig. 3, Fig. 11, and Table 2). The base station provides power for the RT7000. The center LED on the front of the RT7000 is the power indicator. It turns on solid green once power is connected (see Fig. 9 on page 3).
5. One of the outer LEDs (numbered 1 to 4) also turns on and initially flashes a different color as the RT7000 completes a scan of the environment to find an available channel (see Table 1). Once the scan is finished, this outer LED also turns solid green (see Fig. 9 on page 3). During this time, the base station HOME screen also provides a color-coded status for the RT7000 (it is labeled as "Transceivers," see Fig. 4). The **Transceivers** indicator initially turns ● (yellow) while scanning for a channel before turning ● (green) when one is found. This can take a few minutes.

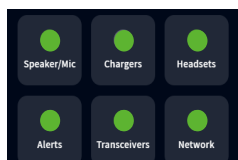
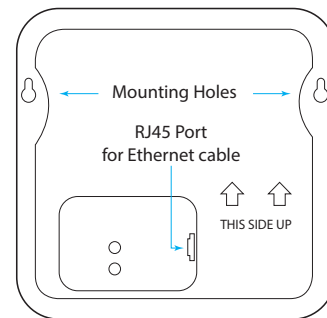


Fig. 4

6. At the base station, go to SYSTEM, log in, then tap the TROUBLE-SHOOTING tab and select "Installation Wizard" from the drop-down list. Tap the "Start Installation Wizard" button. This opens the Installation Wizard, as shown in Fig. 5.



Fig. 1



Rear View

Fig. 2

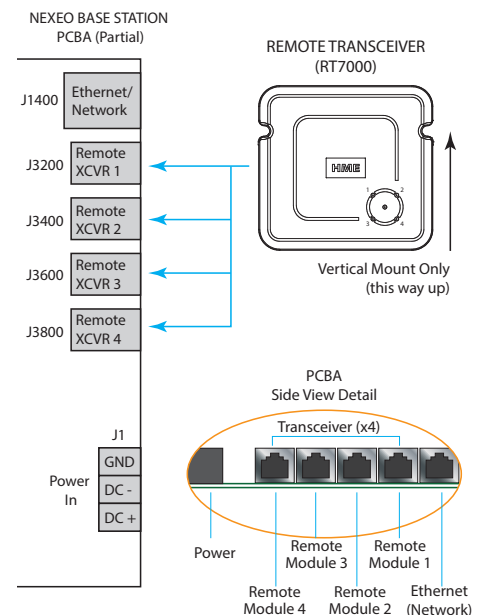


Fig. 3

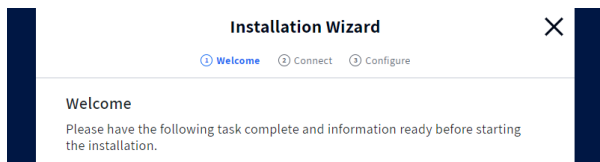


Fig. 5

7. **Critical Step:** At the Configure stage of the Installation Wizard, the Transceiver Installation Step 2 screen (see Fig. 6) prompts you to pair a headset, which switches it to Reception Location Mode once paired (see Fig. 7). The Reception Location Mode indicator turns from **OFF** to **ON** (Fig. 7). Tap “Continue” to move to Transceiver Installation Step 3. You will need to walk all areas of the store where the headset will be used to ensure a good signal. The Boom LED at the tip of the Headset microphone flashes different colors to indicate areas with strong or weak reception (The NEXEO screen displays this color-coded range which is also shown here in Fig. 8). Depending on the results, you may have to reposition the Remote Transceiver before finding the optimal location.

Note: Depending on the size and layout of the store, some stores may require more than one Remote Transceiver to provide adequate coverage.
8. However, if the mounting location is not a good one, move the RT7000 to another location and repeat steps 1 through 7 until a good location is found.

CAUTION: If the RT7000 needs to be relocated, wait at least 5 seconds after unplugging it before reconnecting the cable to the same base station port. This allows time for the system to turn off power to the port, connecting to a live port can damage the circuitry. Or, you can reconnect it to a different port.

10. Mark the wall through the two mounting keyholes and drill two holes (avoid electrical or plumbing obstructions).
11. Install the provided hardware but do not tighten. Leave a gap (~ 1/8th inch (3.2 mm)) between the screw heads and wall.
12. Align the RT7000 mounting holes with the two screws (Fig. 2). Mount the RT7000 over the screw heads until flush against the wall, then slide it down onto the screws to secure it in place and tighten hardware.

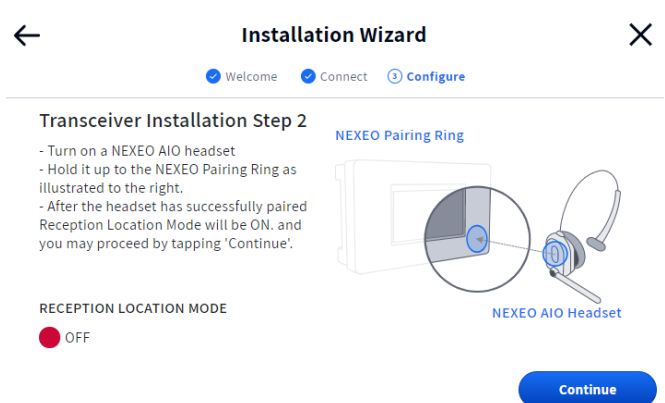


Fig. 6

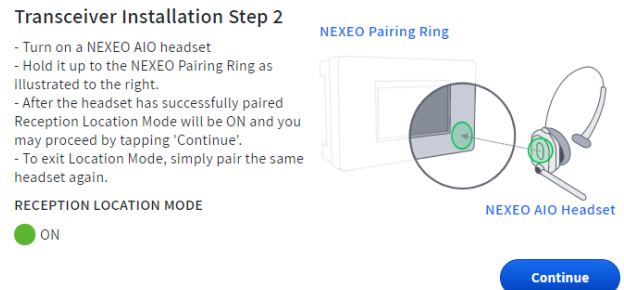


Fig. 7

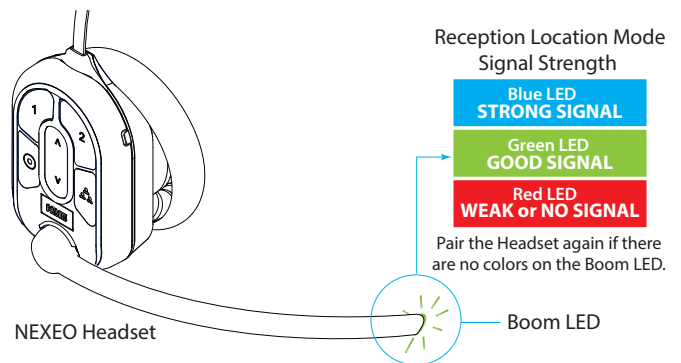


Fig. 8

RT7000 LED Colors with Functional Description	
Color (LEDs 1-4)	Functional Description
Green (Solid)	Ready for use. RT7000 is broadcasting, and Headsets can connect.
Magenta (Blinking)	WiFi Scan.
Yellow (Blinking)	Radar Scan.
Yellow (Solid)	RT7000 is in Test Mode.
Blue (Blinking)	Main radio or Radar1 radio is updating.
Cyan (Blinking)	Radar2 radio is updating.
Red (Solid)	RT7000 has reset and is starting initial-ization.

Table 1

RT7000 Notes:

- The RT7000 is omnidirectional so mount the RT7000 high in a central location where the headsets are typically used.
- Maximize line of sight between the RT7000 and headsets in an area free from obstructions and equipment/materials that can interfere with signal propagation. These include walls, large metal appliances, hoods, and backsplashes, etc.
- Mount the RT7000 vertically on a wall in the upright position (see arrow on RT7000 rear). Do **NOT** mount horizontally, such as on a ceiling. This will reduce the RT7000's range.
- The RT7000 uses an Ethernet (Cat5 or Cat6) cable. Do not exceed 500' (152 m).
- Large or multilevel premises may require more than one RT7000. Up to four RT7000s are supported by one base station.
- Once connected to the base station, the center LED on the RT7000 front illuminates to indicate it is turned on. One of the outer LEDs (numbered 1 to 4) also turns on depending on what base station port it is connected to (1 is used in this example, see Fig. 9 and Table 2). This outer LED will initially flash a different color (see Table 1) as the RT7000 scans for available channels before turning solid green once a channel is found.

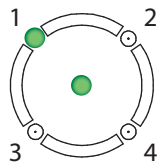


Fig. 9

Base Station RT7000 Ports			
Connector #	Label	To	LED #
J3200	Remote XCVR 1	First RT7000*	1
J3400	Remote XCVR 2	Second RT7000*	2
J3600	Remote XCVR 3	Third RT7000*	3
J3800	Remote XCVR 4	Fourth RT7000*	4

Table 2

* RT7000s can be connected to any port in any order.

- If the RT7000 is mounted outside on an exterior wall, a lightning arrester must be used, see Fig. 10. Contact HME if one or more are required.

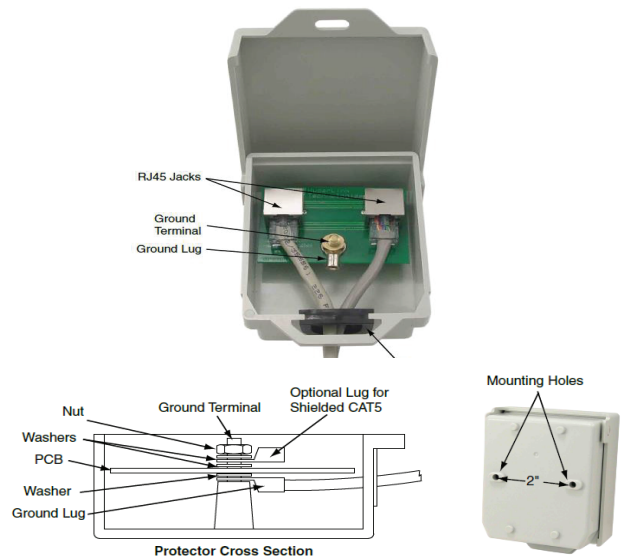


Fig. 10

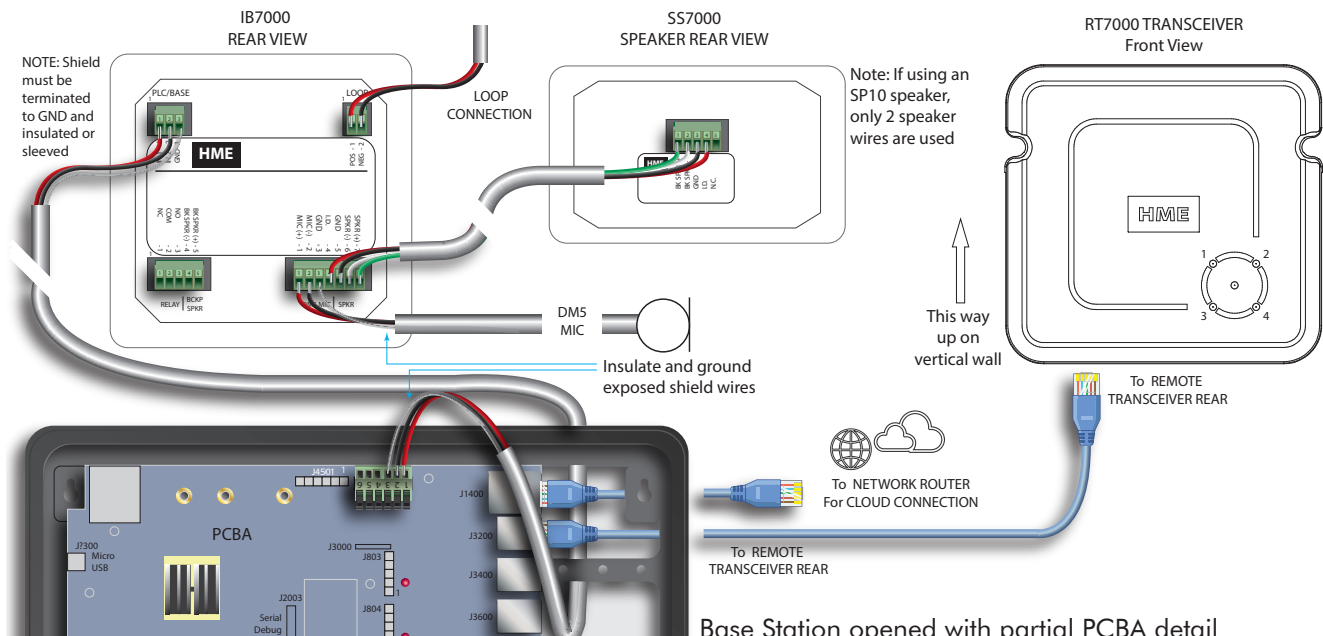


Fig. 11

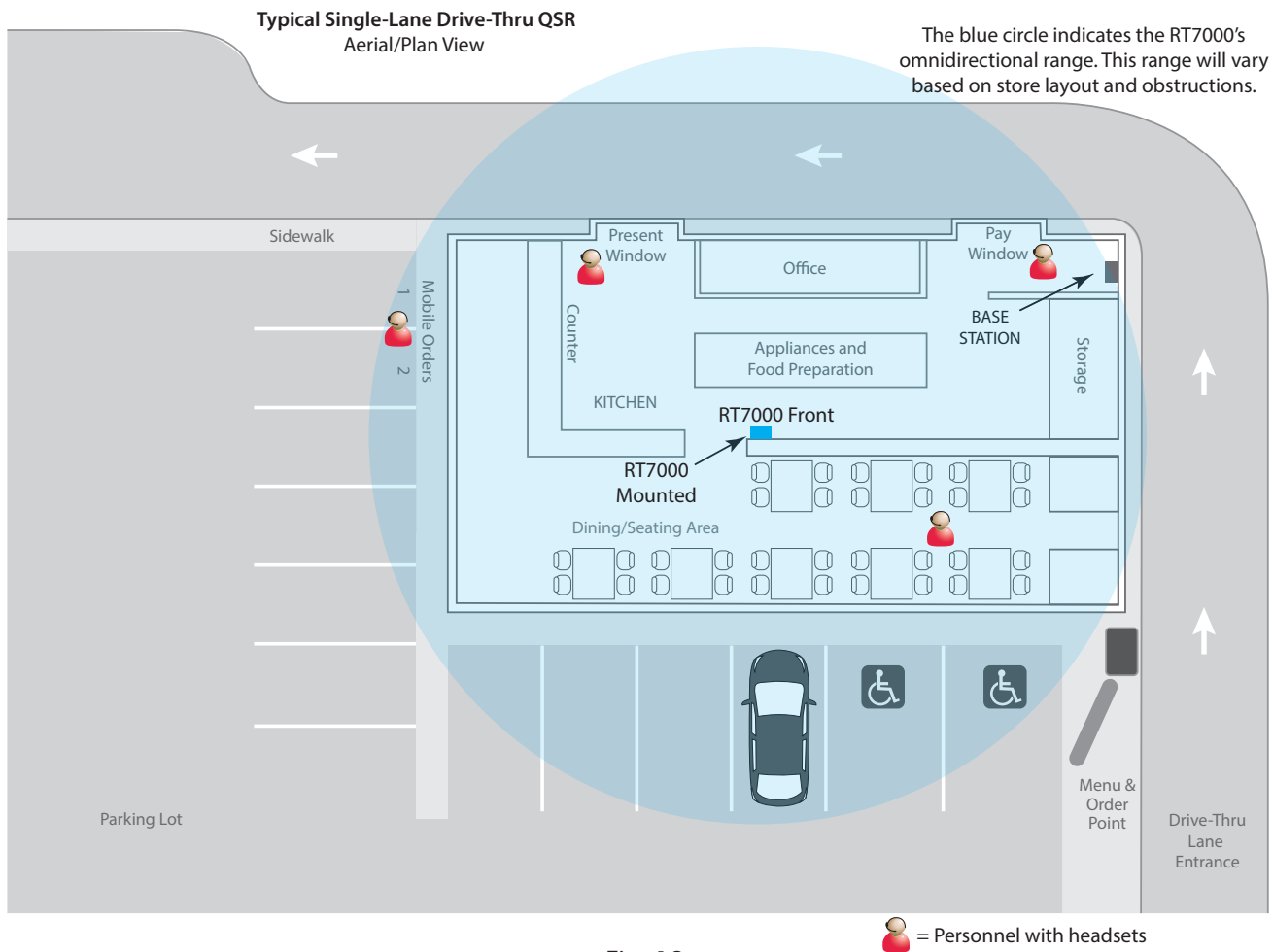


Fig. 12

RT7000 Technical Specifications

Dimensions	6.705" H x 7.157" W x 1.56" D (170.31 x 181.79 x 39.62 mm)
Weight	13.95 oz (395.6 g)
Power Supply	Voltage: 48 VDC (powered from BS7000). Current: 60 mA pk-pk @ 48V
LAN	Ethernet wired connection to base station - AES/EBU interface
Frequency Range	Main Radio: 5.180 GHz – 5.8525 GHz. Secondary Radio: 2.402 GHz - 2.480 GHz
Power	2.88 W
Front Panel	LED type: 5 x RGB, one for power and 4 for port indication
Rear Panel	RJ45 port
Temperature	Operating Temperature range: -25°C (-13°F) to +60°C (+140°F).
Compliance	See NEXEO HDX - Regulatory, Compliance, and Safety Guide online



A copy of this guide and additional information including Regulatory, Compliance, and Safety information can be found under NEXEO | HDX by scanning this QR code or going to: <https://www.hme.com/qsr/drive-thru-user-manuals/>

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