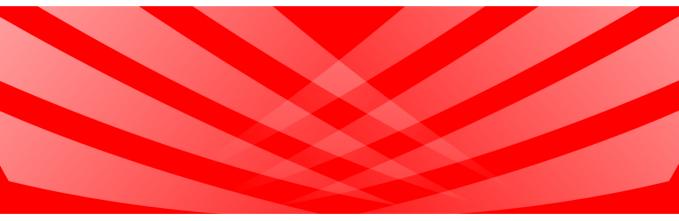


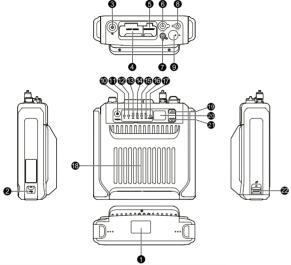
QUICK REFERENCE GUIDE

HR652 COMPACT DMR REPEATER





Product Layout



| No. | Part Name | No. | Part Name |
|-----|--|-----|-------------------------|
| 1 | Bottom cover | 12 | Analog mode indicator |
| 2 | USB port | 13 | Timeslot A TX indicator |
| 3 | TX/Duplexer antenna connector (UHF female) | 14 | Timeslot A RX indicator |
| 4 | Accessory connector | 15 | Timeslot B TX indicator |
| 5 | Ethernet port | 16 | Timeslot B RX indicator |
| 6 | Power inlet | 17 | Alarm indicator |
| 7 | RX antenna connector (SMA female) | 18 | Fan |
| 8 | GNSS antenna connector (SMA female) | 19 | Volume/Channel up key |
| 9 | Aviation port | 20 | Seven-segment LED |
| 10 | On-Off key | 21 | Volume/Channel down key |
| 11 | Digital mode indicator | 22 | Battery latch |



NOTE

Except that the low-power HR652 features no fan but the high-power HR652 features one, the other hardware of the two types is the same.

Precaution

Before installation and use, read the following instructions

- Install the repeater in a dry and well-ventilated place.
- Use the repeater in an environment where the temperature is between -30°C and +60°C and the relative humidity is equal to or lower than 95%.
- Ensure that the operating voltage is 12-16.8 V DC.



NOTE

For more information, refer to the Safety Information Booklet.

Installation

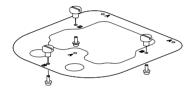
You can place the repeater on the desk, or install the repeater on the wall.

Tools

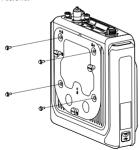
- Electric drill
- Screwdriver
- Wrench
- Anti-static gloves

Procedure

 Install the three pegs onto the fixing plate with three M3 screws at holes marked with "B"



Fix the fixing plate to the back of the repeater with four M4 screws.



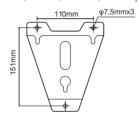
Install the repeater on the wall.



NOTE

Before installation, make sure the weight of the repeater is within the load bearing capacity of the wall

 a. Hold the bracket horizontally to a proper position on the wall, and then mark the locations of the three holes (Φ = 8 mm. h = 60 mm) as anchor points.



- Drill three holes at the anchor points with an electric drill.
- c. Fix the bracket onto the wall with three M6 expansion bolts.
 d. Dock the three holes on the bracket with the three
- d. Dock the three holes on the bracket with the three pegs on the back of the repeater.

Basic Operation

Turning On or Off the Repeater

- Automatically Turn On
 When connected to external power supply, the repeater
 automatically turns on.
- Manually Turn On or Off
 When connected to external power supply, long press
 the On-Off key to turn on or off the repeater.

Switching the Channel

In the standby mode, press the Volume/Channel Up key or the Volume/Channel Down key.

The seven-segment LED displays the current channel number.

Adjusting the Volume

 To switch the Volume/Channel Up key to the volume mode, press the key for five seconds.



NOTE

If you do not have any operation or you long press the **Volume/Channel Up** key within five seconds, the key will switch to the channel mode.

 Press the Volume/Channel Up key to increase or the Volume/Channel Down key to decrease the volume.

(Optional) Transmitting

- Connect the remote speaker microphone (RSM) to the repeater.
- Press the push-to-talk (PTT) key on the RSM.
 You can learn about the repeater status from LED indicators. For details, see Status Indication.



NOTE

- The RSM is optional.
- Use the RSM specified by Hytera.
- PTT TX Channel Type and TX Contact Name are configured by the dealer.
- The repeater gives no indication or response if it detects no TX contact name on the current channel (digital or hybrid) after PTT is pressed.

Status Indication

LED Indicator

| Indicator | Status | Description | |
|-------------------------|-----------------|---|--|
| Digital mode indicator | Glows blue | The repeater is in the digital mode. | |
| Analog mode indicator | Glows orange | The repeater is in the analog mode. | |
| Alarm indicator | Glows red | An exception occurs (The seven-segment LED displays the corresponding alarm code). | |
| Timeslot A TX indicator | Glows red | Analog mode: trans- mitting Digital mode: Timeslot A is trans- mitting. | |
| Timeslot A RX indicator | Glows green | Analog mode: receiving Digital mode: Timeslot A is receiving. | |
| Timeslot B TX indicator | Glows red | Timeslot B is transmitting in the digital mode. | |
| Timeslot B RX indicator | Glows green | Timeslot B is receiving in the digital mode. | |

Seven-Segment LED

Alarm Code

| Alarm Code | Description | Alarm Code | Description |
|---------------|--|---------------|-----------------------------------|
| E3 | External power under-voltage alarm | EE | Repeater disabled alarm |
| E4 | TX unlocked alarm | Eb | Low forward power alarm |
| E5 | RX unlocked alarm | EH | External power over-voltage alarm |
| E6 | Over- temperature alarm | НЗ | Network IP conflict alarm |
| E7 | Voltage standing wave ratio (VSWR) alarm | Н5 | Invalid network IP alarm |
| E8 | Off-lease alarm | bP | Backup alarm |
| E9 | Slave unregistered alarm | / | / |

Channel Code

| Channel Code | Description | | |
|--------------|--|--|--|
| N | Indicates the current channel number, for example, 1, 2, 3, or more. | | |



© 2023 COMM-TECH, INC. All Rights Reserved. 100 North Morain Street, Suite 208 Kennewick, WA 99336 info@commtechnw.com/ https://commtechnw.com/