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TIDRADIO TD-H3 GMRS Radio

TIDRADIO TD-H3 GMRS Radios User Manual

Model: TD-H3 GMRS Radio

1. PRODUCT OVERVIEW

The TIDRADIO TD-H3 is a versatile handheld GMRS radio designed for reliable two-way communication. It features multi-band transmitting and receiving capabilities, advanced programming options, and a durable build for various outdoor and professional uses.



Figure 1.1: TIDRADIO TD-H3 GMRS Radios and included accessories, showing two radios, antennas, batteries, chargers, earpieces, and cables.

Key Features:

- 5W GMRS Radio Handheld with 8-band frequency support.
- Type-C and Bluetooth wireless programming.
- Multi-band Transmitting & Receiving (TX: GMRS & FRS; RX: 108-136MHz Airband, 50-600MHz).
- NOAA Weather Receiver for emergency alerts.
- Rapid One-Key Frequency Copy function.
- DTMF Lock for privacy protection.
- 2500mAh Type-C rechargeable battery for extended use.
- 1.44" LCD Color Screen for clear display.

2. SETUP

2.1 Unboxing and Initial Inspection

Upon receiving your TIDRADIO TD-H3, carefully unbox all components and inspect for any visible damage. The package should contain the following items:

- 2 x TD-H3 Handheld GMRS Radio
- 2 x Desktop Charger
- 2 x 6.1-inch GMRS Antenna
- 2 x 15.12-inch 771 AM Antenna (120/300MHz)
- 2 x 2500mAh Type-C Battery
- 2 x Earpiece with Mic
- 2 x USB Charger with cable
- 2 x Back Clip
- 2 x User Manual
- 2 x Lanyard



Figure 2.1: All items included in the TD-H3 Full Kit package.

2.2 Battery Installation and Charging

Before first use, ensure the battery is fully charged. The 2500mAh Lithium Polymer battery provides extended operating time.

1. Align the battery pack with the guides on the back of the radio.
2. Slide the battery upward until it clicks into place.
3. To charge, connect the Type-C cable directly to the battery port on the radio or place the radio in the desktop charger.
4. A full charge via Type-C port takes approximately 3 hours. Using the desktop charger may take 5-7 hours.

2500mAh Large Battery

Charging **3** Hours (Type-C Charging) Standby **48** Hours



Desktop
Charging



Car
Charging



Laptop
Charging



Power Bank
Charging

Figure 2.2: The 2500mAh battery and various charging methods including desktop charger, car charger, laptop, and power bank.

2.3 Attaching the Antenna and Belt Clip

1. Screw the desired antenna (GMRS or 771 AM Air Band) clockwise onto the top connector of the radio until secure.
2. Attach the belt clip to the back of the radio using the provided screws.

How to Programming



Step1:
Open the Odmaster APP

Step2:
Connect the BL
When Bluetooth cannot be linked, press and hold the BL button to restart Bluetooth.

Step3:
Programming radio
When outdoors it supports programming without network in outdoor, but need to save the data in advance.

 **Supports Quickly Importing The Complete Nearby Repeater List Info Without Having To Edit it.**

Figure 2.3: The TD-H3 radio with its antenna attached, ready for use.

3. OPERATING

3.1 Power On/Off and Volume Control

To power on the radio, rotate the top-right knob clockwise until you hear a click. Continue rotating to adjust the volume. To power off, rotate counter-clockwise until it clicks off.

3.2 Programming Modes

The TD-H3 supports multiple programming methods:

- **USB-C Cable Programming:** Connect a USB-C cable to the side port of the radio and to a computer. Use CHIRP or CPS programming software.
- **Bluetooth Wireless Programming:** Download the Odmaster app on your phone (Android/iOS) or access the Odmaster Web on a PC with Bluetooth enabled.

- **Traditional 2-Pin Interface:** Compatible with standard Kenwood 2-pin programming cables.

Multi-mode Programming

Ch	Rx Freq	Tx Freq	QT/QT Dec	QT/QT Enc
1	425.22500	425.22500	OFF	OFF
2	426.32500	426.32500	OFF	OFF
3	427.42500	427.42500	OFF	OFF
4	428.52500	428.52500	OFF	OFF
5	429.62500	429.62500	OFF	OFF
6	430.72500	430.72500	OFF	OFF
7	431.82500	431.82500	OFF	OFF
8	432.92500	432.92500	OFF	OFF
9	433.92500	433.92500	OFF	OFF
10	434.22500	434.22500	OFF	OFF
11	435.32500	435.32500	OFF	OFF
12	436.42500	436.42500	OFF	OFF
13	437.52500	437.52500	OFF	OFF
14	438.62500	438.62500	OFF	OFF
15	439.72500	439.72500	OFF	OFF
16	440.82500	440.82500	OFF	OFF

 **CPS Programming software**

 **CHIRP**

Type-C/Kenwood Port Programming:
Support CHIRP and CPS Programming Software(Only the side Type-C Port support programming)

 **ODmaster App/web**

Wireless Programming: PC Website and Phone APP(The PC needs to be Bluetooth enabled when using website programming)

Figure 3.1: Multi-mode programming options for the TD-H3, including USB-C, Bluetooth via app/web, and traditional 2-pin.

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Video 3.1: A detailed review and guide on how to program the TD-H3 radio using a phone application. This video demonstrates the steps for connecting the radio via Bluetooth and managing its settings.

Air Band & Police Band



Figure 3.2: Step-by-step guide for programming the TD-H3 via the Odmaster APP, including connecting Bluetooth and programming the radio.

3.3 Multi-Band Transmitting & Receiving

The TD-H3 supports a wide range of frequencies for both transmission and reception:

- **TX (Transmit):** GMRS & FRS frequencies.
- **RX (Receive):** 108-136MHz (Air Band), 50-76MHz, 76-108MHz, 136-174MHz, 174-350MHz, 350-400MHz, 400-470MHz, 470-600MHz.
- Includes NOAA Weather Receiver functionality.

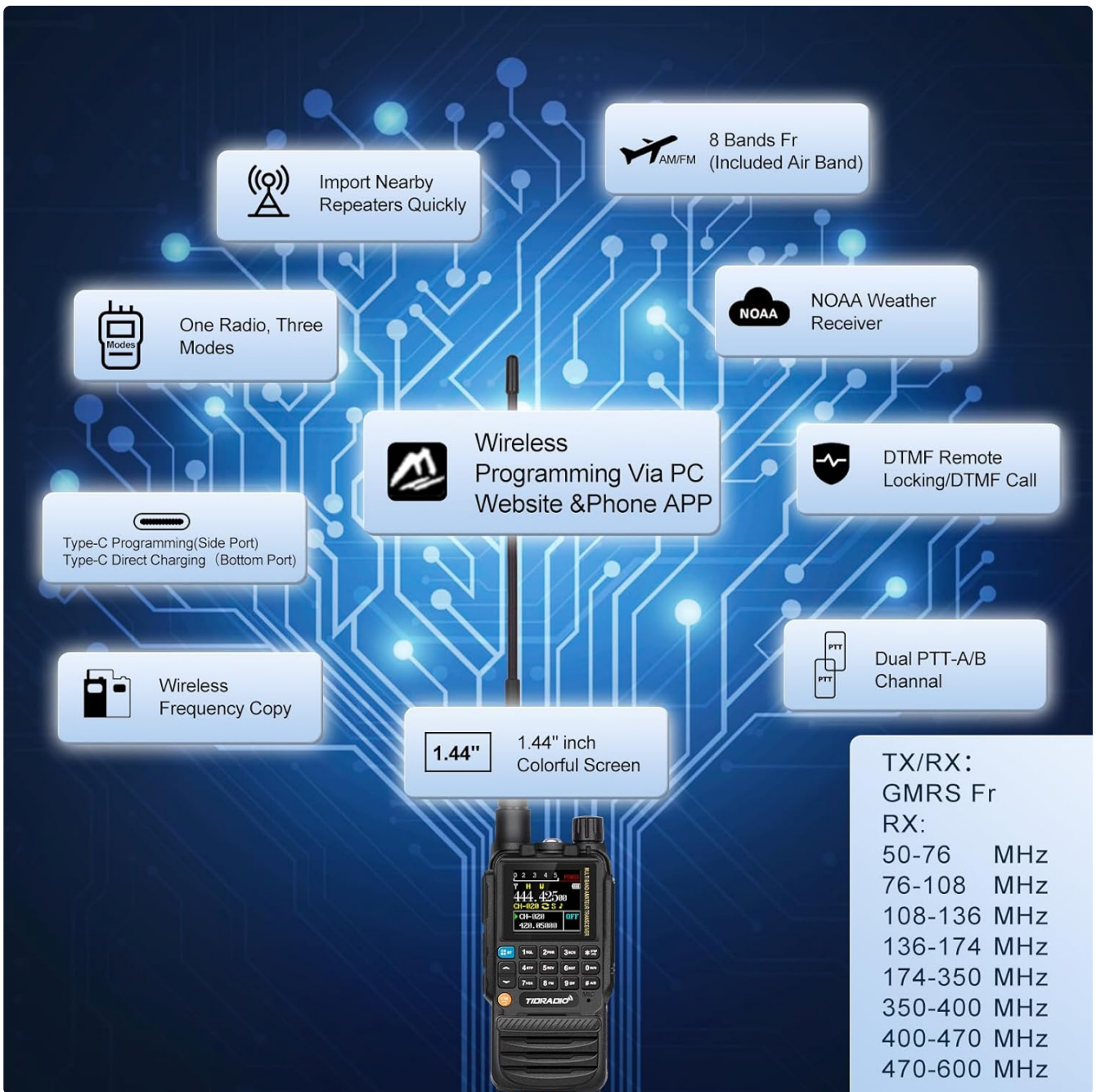


Figure 3.3: Overview of the TD-H3's multi-band capabilities, including TX/RX frequencies and key features like NOAA Weather Receiver and DTMF Call.

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Video 3.2: A demonstration on how to use the Airband feature on the TIDRADIO H3 radio, highlighting its reception capabilities for aviation frequencies.

Fast Copy One Channel

Hold down "1", it could identify the frequency when others radio transmitting. You can save it directly on new channel.



Figure 3.4: The TD-H3's capability to receive Air Band and Police Band frequencies, enhanced by the 771 air band long antenna.

3.4 Rapid Copy One Channel

The one-key frequency match function allows for quick copying of frequencies from other transmitting radios:

1. Hold down the "1" button on the keypad.
2. The radio will identify the frequency of a transmitting radio nearby.
3. You can then save this frequency directly to a new channel. (Menu 47 On/Off)

Air Band & Police Band



Figure 3.5: Demonstration of the Fast Copy One Channel feature, showing how to quickly identify and save frequencies from other radios.

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Video 3.3: A guide on how to use the One Key Frequency Match function on the TD-H3 radio, allowing users to quickly copy and save frequencies.

3.5 Privacy Protection (DTMF Lock/Stun)

The TD-H3 offers privacy features using DTMF (Dual-Tone Multi-Frequency) codes:

- **Kill Code:** Set a Kill Code via Odmaster. Any radio with DTMF can send this code to remotely lock your H3 radio, preventing its use until unlocked.
- **Stun Code:** Set a Stun Code to limit your H3 radio to receive-only mode, preventing transmission.
- Codes should be at least 5 digits. To unlock, add '#' to the end of the code (e.g., 12345#).

Privacy Protection of TD-H3 Radio



Setting the Kill Code on Odmaster, on the same frequency, any radio with DTMF function could send the code to lock your H3 radio via DTMF. The locked H3 can not use any more unless unlock it. Protecting your radio and privacy.

When setting the Stun Code, you could send the code to limit your H3 radio to transmit only receive the signal.

The code should be at least 5 digits.
For example: the Kill/Stun code is 12345, and the unlock code is 12345# (Add the # is unlock code, no need to set it)

Figure 3.6: Explanation of the TD-H3's privacy protection features, including setting Kill and Stun codes via DTMF.

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Video 3.4: Instructions on how to unlock the "Kill All Locked" or "Stun" features of the H3 radio, providing a solution for radios that have been remotely disabled.

4. MAINTENANCE

4.1 Battery Care

- Always use the specified charger provided by TIDRADIO.
- Do not disassemble, open, or shred the battery pack.
- Avoid exposing the battery to high temperatures (above 60°C / 140°F) or direct sunlight.
- Store the battery in a cool, dry place when not in use.

4.2 General Radio Care

- Do not attempt to open the radio for any reason, as this will void the warranty.
- Keep the radio dry. If it gets wet, dry it thoroughly before use to avoid damage.
- Avoid storing the radio in dusty or dirty areas.
- If the radio emits a peculiar smell or smoke, immediately power it off and remove the battery.

5. TROUBLESHOOTING

If you encounter issues with your TIDRADIO TD-H3, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio not powering on	Low battery; incorrect battery installation.	Charge battery fully; re-install battery correctly.
Cannot transmit or receive	Incorrect frequency/channel; antenna not attached; Stun mode active.	Verify frequency/channel; attach antenna; disable Stun mode.
Poor audio quality	Low signal strength; incorrect squelch level.	Move to an area with better signal; adjust squelch level.
Programming issues	Incorrect software/app; Bluetooth not connected; cable issue.	Ensure correct software/app version; re-establish Bluetooth connection; check cable integrity.

6. SPECIFICATIONS

- **Item Weight:** 2.07 pounds
- **Package Dimensions:** 9.92 x 8.66 x 2.44 inches
- **Item model number:** TD-H3 GMRS Radio
- **Batteries:** 2 Lithium Polymer batteries required (included)
- **Display Type:** LCD
- **Brand:** TIDRADIO
- **Color:** Black
- **Number of Channels:** 199
- **Special Feature:** Type C & Wireless Programming, 8 bands frequency
- **Frequency Range:** GMRS (TX/RX), 108-136MHz (Air Band RX), 50-600MHz (Other RX)
- **Talking Range Maximum:** 5 Kilometers
- **Voltage:** 7.4 Volts
- **Water Resistance Level:** Water Resistant

7. WARRANTY AND SUPPORT

TIDRADIO offers a 30-day quality guarantee for the TD-H3 GMRS Radios. If you are not satisfied with the product, a replacement will be offered.

For any questions or suggestions, please contact TIDRADIO customer service. New products and updates are regularly available.

The TD-H3 and TD-H8 radios feature a built-in Bluetooth chip, eliminating the need for an additional programmer for wireless programming via Odmaster Web.

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Video 7.1: An overview of the TD-H3 Ham/GMRS Radio, highlighting its multi-band capabilities and compact design.