

TYT TH-UV8000D

TYT TH-UV8000D 10W Two-Way Radio Instruction Manual

Model: TH-UV8000D

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your TYT TH-UV8000D 10W Two-Way Radio. Please read this manual thoroughly before using the device to ensure proper function and safety.

The TYT TH-UV8000D is a high-power handheld transceiver designed for amateur radio use, featuring dual-band VHF/UHF capabilities and a cross-band repeater function.

2. PRODUCT FEATURES

- 10W Ultra-High Output Power
- Cross-Band Repeater Function
- VHF/UHF Dual Band Operation (VHF 144-148 MHz TX, UHF 420-450 MHz TX; VHF 136-174 MHz RX, UHF 400-520 MHz RX)
- Dual Display, Dual Watch
- 128 Channels Storage
- 3600mAh High Capacity Lithium-Ion Battery
- VOX (Voice Operated Exchange) Function
- ANI (Automatic Number Identification)
- MSK (Multi-Tone Squelch Keying)
- DTMF (Dual-Tone Multi-Frequency)
- Remote Kill/Stun Function
- Broad (Wide) / Narrowband (Narrow) Selectable
- Tri-color Background Light Selectable
- FM Radio Receive



Image: Feature icons for the TH-UV8000D radio.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- TYT TH-UV8000D Two-Way Radio Unit
- High Gain Antenna
- Standard Antenna
- 3600mAh Lithium-Ion Battery
- Desktop Charger Base
- Power Adapter for Charger
- Belt Clip
- User Manual (this document)



Image: Components included with the TH-UV8000D radio.

4. SETUP

4.1 Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks into place.
3. To remove, press the battery release latch and slide the battery downwards.

4.2 Antenna Attachment

1. Locate the SMA-Male connector on the antenna.
2. Screw the antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.



Image: Detail of the antenna and radio connector.

4.3 Charging the Battery

Before initial use, fully charge the battery. The radio uses a 3600mAh Lithium-Ion battery.

1. Connect the power adapter to the desktop charger base.
2. Plug the power adapter into a standard wall outlet.
3. Place the radio (with battery installed) into the charger base. Ensure proper contact.
4. The charging indicator light on the charger will illuminate (typically red) during charging and change color (typically green) when charging is complete.

Multiple charging options



Base Charger

With 1Pack Desktop Charger
+Power Adapter, Can Charge Radio
In Wall Or Socket

Original 3600mah Battery

With 1Pack Original
3600mah Battery
Up To 48 hours Standby Time



Adapter Safe charging



Image: Multiple charging options for the TH-UV8000D radio.

5. OPERATING INSTRUCTIONS

5.1 Turning the Radio On/Off

1. To turn on: Press and hold the [F] key and the [MONI] key simultaneously.
2. To turn off: Press and hold the [F] key and the [MONI] key simultaneously again.



Turning the radio on/off

When in standby, press the [F] +[MONI] keys to activate the radio function.

Directly input the frequency of the radio station or press the [F] key once, and then press [1] to enter the radio search. When a radio program is received, it will stop; If you want to continue searching for channels, please press the [F] key repeatedly, and then press [1] to proceed. The radio can be temporarily turned off when there is a receiving signal or when pressing [PTT] ; When you want to turn off the radio, press the [F]+[MONI] keys to exit.

Image: Instructions for powering the radio on and off.

5.2 Basic Communication

1. **Select Frequency/Channel:** Use the keypad to directly input a frequency or navigate through stored channels.
2. **Adjust Volume:** Rotate the top knob clockwise to increase volume, counter-clockwise to decrease.
3. **Transmit:** Press and hold the PTT (Push-To-Talk) button on the side of the radio to transmit. Speak clearly into the microphone. Release the PTT button to receive.

5.3 Cross-Band Repeater Function

The TH-UV8000D supports cross-band repeating, allowing the radio to re-transmit signals received on one band (e.g., VHF) to another band (e.g., UHF) and vice-versa. This extends communication range.

Refer to the full programming software manual for detailed instructions on configuring the cross-band repeater function, as it typically requires specific frequency and tone settings.



Image: TH-UV8000D highlighting 10W power and cross-band function.

5.4 Range Expectations

Communication range varies significantly based on terrain, obstructions, and environmental conditions.

- **City:** Approximately 1-2 miles
- **Mountain:** Approximately 3-5 miles
- **Road/Open Area:** Approximately 5-15 miles

Strong Signal and Long Range

10W



City
1-2 miles



Mountain
3-5 miles



Road
5-15 miles



Image: Signal range in various environments.

6. MAINTENANCE

6.1 General Care

- Keep the radio dry. Exposure to moisture can damage internal circuits.
- Avoid extreme temperatures. Do not store the radio in very hot or cold environments.
- Clean the radio with a soft, damp cloth. Do not use harsh chemicals or solvents.
- Handle the antenna carefully. Bending or twisting can cause damage.

6.2 Battery Care

- Charge the battery fully before first use.
- Do not overcharge or deep discharge the battery regularly, as this can reduce its lifespan.
- If storing the radio for an extended period, remove the battery and store it in a cool, dry place at approximately 50%

charge.



Image: Radio side view emphasizing battery and durability.

7. TROUBLESHOOTING

- **Radio does not power on:** Ensure the battery is correctly installed and fully charged. Check the battery contacts for dirt or damage.
- **Poor reception or transmission:** Verify the antenna is securely attached. Check that you are on the correct frequency/channel and that the squelch level is appropriately set. Obstructions or distance can significantly affect signal quality.
- **Programming difficulties:** Ensure you are using the correct programming cable and software for the TH-UV8000D. Consult online resources or the manufacturer's support for software compatibility, especially with different operating systems.
- **Constant squelch opening:** This may indicate interference or an incorrectly set CTCSS/DCS tone. Adjust the squelch level or verify tone settings.

- **Short battery life:** Ensure the battery is fully charged. Battery performance can degrade over time. Operating at high power (10W) will consume battery faster than lower power settings.

8. SPECIFICATIONS

Feature	Specification
Item Weight	1 pound
Package Dimensions	11 x 8 x 2.7 inches
Model Number	TH-UV8000D
Battery Type	1 Lithium Ion battery (included)
Number of Channels	128
Frequency Range	VHF: 136-174 MHz, 144-148 MHz (TX); UHF: 400-520 MHz, 420-450 MHz (TX)
Talking Range Maximum	5 Miles (nominal, varies by terrain)
Voltage	7.4 Volts DC (3.7E+3 Volts is likely a typo in source data)
Water Resistance Level	Water Repellent
Included Components	Antenna

9. WARRANTY

The TYT TH-UV8000D radio typically comes with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty card included in your package or contact the seller/manufacturer directly.

10. SUPPORT

For further assistance, technical support, or inquiries regarding your TYT TH-UV8000D radio, please contact your authorized dealer or the manufacturer's customer service. Contact information can usually be found on the product packaging or the manufacturer's official website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question