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TYT TH-UV8000D

TYT TH-UV8000D 10W Dual Band Handheld Transceiver User Manual

Model: TH-UV8000D | **Brand:** TYT

1. INTRODUCTION

The TYT TH-UV8000D is a 10-watt ultra-high output power handheld transceiver designed for amateur radio enthusiasts. It features dual-band VHF/UHF operation, dual display, and a cross-band repeater function, making it a versatile communication tool. This manual provides essential information for setting up, operating, and maintaining your device.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- TYT TH-UV8000D Handheld Transceiver (2 units)
- Desktop Charger with AC Adapter (2 units)
- 3600mAh Li-ion Battery (4 units)
- Programming Cable (1 unit)
- Earpiece (2 units)
- Speaker Microphone (2 units)
- User Manual (2 units)



Image 2.1: Contents of the TYT TH-UV8000D package, including two radios, two speaker microphones, four batteries, and two desktop chargers.

3. PRODUCT OVERVIEW

3.1 Physical Features and Dimensions



Image 3.1: The TYT TH-UV8000D handheld transceiver, highlighting its 10 Watts High Output Power, VHF/UHF Dual Band, 3600 mAh Battery Capacity, and Cross-Band Repeater Function.



Image 3.2: Various side views of the TYT TH-UV8000D, showing its robust design and button placement.



Image 3.3: Detailed dimensions of the TYT TH-UV8000D, indicating a height of 11.35 inches (including antenna), width of 2.5 inches, and depth of 1.6 inches.

3.2 Controls and Indicators

The TH-UV8000D features intuitive controls for easy operation:

- **Power/Volume Knob:** Located on top, controls power on/off and audio volume.
- **Antenna Connector:** Standard SMA-Female connector for antenna attachment.
- **PTT Button:** Push-to-Talk button on the side for transmitting.
- **Function Keys:** Programmable side keys for quick access to features.
- **Keypad:** Numeric and function keys for frequency input and menu navigation.
- **LCD Display:** Shows frequency, channel, battery status, and other operational information.
- **Speaker/Microphone Jack:** For connecting external audio accessories.

4. SETUP

4.1 Battery Installation and Charging

The TH-UV8000D uses 3600mAh Li-ion batteries. To install, align the battery pack with the back of the radio and slide it upwards until it clicks into place. To remove, press the release latch and slide the battery downwards.

To charge the battery, place the radio (with battery installed) into the desktop charger. Connect the AC adapter to the charger and a power outlet. The charger indicator light will show charging status (typically red for charging, green for fully charged).





Image 4.1: Front and back view of the TYT TH-UV8000D, illustrating the battery attachment area.

4.2 Antenna Attachment

Screw the antenna clockwise onto the antenna connector on top of the radio until it is finger-tight. Do not overtighten.

4.3 Earpiece and Speaker Microphone Connection

Connect the earpiece or speaker microphone to the dual-pin jack on the side of the radio. Ensure the connectors are fully inserted for proper operation.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Volume Adjustment

To power on the radio, rotate the Power/Volume knob clockwise. Continue rotating to increase the volume. Rotate counter-clockwise to decrease volume and turn off the radio.

5.2 Frequency and Channel Mode

The TH-UV8000D supports both Frequency (VFO) mode for direct frequency input and Channel (Memory) mode for pre-programmed channels. Use the V/M button to switch between modes. The radio features dual display for monitoring two frequencies/channels simultaneously and dual watch functionality.

5.3 Push-to-Talk (PTT) Function

To transmit, press and hold the PTT button on the side of the radio. Speak clearly into the microphone. Release the PTT button to receive.

5.4 Cross-Band Repeater Function

The TH-UV8000D can function as a cross-band repeater, allowing signals received on one band (VHF or UHF) to be re-transmitted on the other band. Refer to the detailed programming guide on the TYT official website for setup instructions for this advanced feature.

5.5 FM Radio Reception

The radio includes an FM broadcast receiver. To activate, press the dedicated FM button (refer to your radio's specific button layout if not labeled). Use the arrow keys to tune to desired FM stations.

5.6 Advanced Functions

The TH-UV8000D supports various advanced signaling and operational features:

- **CTCSS/DCS:** Continuous Tone-Coded Squelch System / Digital Coded Squelch for selective calling.
- **VOX:** Voice Operated eXchange for hands-free transmission.
- **ANI:** Automatic Number Identification.
- **MSK:** Multi-Tone Sequential Keying.
- **DTMF:** Dual-Tone Multi-Frequency for remote control and signaling.
- **1750 Tone:** Used for accessing repeaters.
- **Broad (Wide) / Narrowband (Narrow) Selectable:** Adjust bandwidth for different communication needs.

Detailed configuration for these functions can be found in the full user manual available on the TYT official website.

5.7 Programming the Radio

The radio can be programmed via a computer using the included programming cable. Download the necessary programming software and drivers from the official TYT website. This allows for customization of channels, frequencies, and various advanced settings.

6. MAINTENANCE

6.1 Battery Care

- Charge batteries fully before first use.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store batteries in a cool, dry place when not in use.

6.2 Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or solvents. Ensure the radio is powered off and all ports are sealed before cleaning.

7. TROUBLESHOOTING

- **No Power:** Check battery charge and ensure it is properly installed. Verify the power/volume knob is turned on.
- **Cannot Transmit/Receive:** Ensure the antenna is securely attached. Verify correct frequency/channel settings. Check for sufficient battery power.
- **Poor Audio Quality:** Check earpiece/microphone connection. Adjust volume. Ensure no obstructions to speaker/microphone.
- **Radio Not Responding:** Try removing and re-inserting the battery. If issues persist, perform a factory reset (refer to the full manual for instructions).

8. SPECIFICATIONS

Feature	Specification
Model Number	TH-UV8000D

Output Power	10 Watts
Frequency Range (TX)	VHF 144-148 MHz, UHF 420-450 MHz
Number of Channels	128
Battery Type	Lithium Ion
Battery Capacity	3600mAh
Special Features	Cross-Band Repeater, Dual Band, Dual Display, Dual Watch, FM Radio, CTCSS/DCS, VOX, ANI, MSK, DTMF
Item Weight	4.64 pounds (for 2 units)
Package Dimensions	13.2 x 8.7 x 5.3 inches
Water Resistance Level	Not Water Resistant

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product is covered by a **90-day warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects but does not cover damage caused by misuse, accidents, or unauthorized modifications.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact the seller or visit the official TYT Electronics Co., Ltd. website for support resources and updated software/drivers.

Related Documents - TH-UV8000D

	<p>TYT TH-UV8000D Walkie-Talkie Manual and Product Information</p> <p>Download the free PDF manual for the TYT TH-UV8000D Walkie-Talkie. Find product specifications, FAQs, user ratings, and support information. Learn about this dual-band two-way radio from TYT Electronics.</p>
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	<p>TYT TH-UVF1 Dual Band Two-Way Radio User Manual</p> <p>Comprehensive user manual for the TYT TH-UVF1 dual band handheld two-way radio, covering safety, features, operations, troubleshooting, and technical specifications.</p>
	<p>TYT TH-UV8000D Amateur Handheld Transceiver User's Manual</p> <p>Comprehensive user manual for the TYT TH-UV8000D Amateur Handheld Transceiver, covering features, operation, installation, specifications, and troubleshooting.</p>
	<p>TYT UV99 User Manual: 10W Dual Band IP68 Waterproof Walkie Talkie Features and Operation</p> <p>Comprehensive user manual for the TYT UV99 walkie talkie. Learn about its features, installation, operation, advanced functions, and technical specifications for this 10W dual-band, IP68 waterproof device.</p>
	<p>TYT TH-UVF9 Two-Way Radio User Manual: Features, Operation, and Specifications</p> <p>Comprehensive user manual for the TYT TH-UVF9 dual-band two-way radio. Covers main functions, setup, operation, detailed descriptions, and technical parameters for this portable transceiver.</p>
	<p>TYT TM-D70W Dualband Mobile Radio User Manual</p> <p>Comprehensive user manual for the TYT TM-D70W Dualband Mobile Radio, covering features like Cross Band Repeater, DTMF, 2-TONE, and 5-TONE signaling, programming, and technical specifications.</p>