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› UV5F Ham Radio Handheld Dual Band Two Way Radio User Manual

## wanneton UV5FPLUS

# Wanneton UV5F Ham Radio User Manual

Model: UV5FPLUS

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## INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your Wanneton UV5F Ham Radio. The UV5F is a versatile handheld dual-band two-way radio featuring one-key decoding for frequency copying, a super bright flashlight, and a large capacity rechargeable battery. Please read this manual thoroughly before using the device to ensure proper function and safety.



Image: The Wanneton UV5F Ham Radio, showcasing its bright green casing and integrated flashlight on the side.

## WHAT'S IN THE BOX

Upon opening the package, verify that all the following components are included:

- 1 x Wanneton UV5F VHF Radio
- 1 x Antenna
- 1 x Rechargeable Lithium Ion Battery
- 1 x Charging Base
- 1 x Earpiece
- 1 x Belt Clip
- 1 x User's Manual (this document)



Image: All components included in the Wanneton UV5F package, laid out clearly: the radio, antenna, battery, charging base, earpiece, belt clip, and user manual.

## PRODUCT OVERVIEW

Familiarize yourself with the various parts and controls of your UV5F radio:



Image: A detailed diagram of the Wanneton UV5F radio, with labels pointing to key components such as the Antenna, Super Flashlight, TX/RX Indicator Light, PTT/Talk Button, MIC, Flashlight Button, FM Switch, Keypad, Speaker, USB Type-C Charging Socket, Headset Jack, LCD Display, and Power Voice Switch.

- **Antenna:** For transmitting and receiving signals.
- **Super Flashlight:** Integrated LED light for illumination.
- **TX/RX Indicator Light:** Illuminates red during transmission (TX) and green during reception (RX).
- **PPT/Talk Button:** Press and hold to transmit, release to receive.
- **MIC:** Microphone for voice input.
- **Flashlight Button:** Activates the super bright flashlight.
- **FM Switch:** Toggles the FM radio function.
- **Keypad:** For frequency input, menu navigation, and channel selection.
- **Speaker:** For audio output.
- **USB Type-C Charging Socket:** For direct charging of the radio.

- **Headset Jack:** For connecting an earpiece or external microphone.
- **LCD Display:** Shows frequency, channel, battery status, and other operational information.
- **Power Voice Switch:** Rotary knob for power on/off and volume control.

## SETUP

### 1. Battery Installation and Charging

The UV5F radio comes with a rechargeable Lithium Ion battery. Ensure the battery is fully charged before first use.

1. Align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place.
2. To charge, connect the charging base to a power outlet using the provided adapter. Place the radio into the charging base. The indicator light on the base will show charging status.
3. Alternatively, you can charge the radio directly using a USB Type-C cable connected to the USB Type-C charging socket on the side of the radio.



Image: Various charging methods for the Wanneton UV5F radio, including charging in its desktop cradle, via USB-C from a laptop, and via USB-C from a power bank or car charger.

## 2. Attaching the Antenna and Belt Clip

- Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.
- Attach the belt clip to the designated slot on the back of the radio for convenient carrying.

# OPERATING INSTRUCTIONS

## 1. Power On/Off and Volume Control

Rotate the Power Voice Switch (top knob) clockwise to power on the radio. Continue rotating to increase the volume. Rotate counter-clockwise to decrease volume and power off.

## 2. One-Key Decoding Copy Frequency

This feature allows you to quickly copy the frequency from another intercom without manual programming.

1. Power on your UV5F radio, then tune to channel 1. Power off the radio.
2. Press and hold the side button (likely the PTT button or a dedicated side key), then power on the radio.
3. When the green light flashes after power on, the radio has entered the decoding mode.
4. Have the other walkie-talkie transmit a signal.
5. After the UV5F decodes the signal, it will emit a "di" prompt sound, indicating successful frequency decoding.

# One-Key Decoding Copy Frequency

Copy the intercom frequency with one key, Without programming  
How to one-touch channel matching?

1. Power on first, then tune to channel 1, then power off
2. Press and hold the side button, then power on
3. When you see the green light flashing after power on, it means entering the decoding mode
4. Pick up another walkie-talkie that needs to be linked to transmit
5. After the decoding intercom receives the signal, there will be a "di" prompt sound, indicating that the decoding is successful



Image: A visual guide demonstrating the "One-Key Decoding Copy Frequency" feature, showing two radios and the steps involved in copying a frequency without programming.

## 3. Super Bright Flashlight Operation

The UV5F is equipped with a powerful LED flashlight.

- Press the dedicated Flashlight Button (refer to Product Overview) to turn the flashlight on.
- Press it again to turn the flashlight off.

# Super Flashlight



Image: Close-up views of the Wanneton UV5F radio highlighting the super bright flashlight, its activation button, and the clear LCD display.

## 4. VOX (Voice Operated Exchange) / Hands-Free Function

The VOX function allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice.

- To activate VOX, navigate through the radio's menu system (refer to the full manual for specific menu options).
- Adjust the VOX sensitivity level as needed to prevent accidental transmissions or missed voice activations.

## 5. Digital Tuning FM Radio

Your UV5F radio includes a built-in FM radio receiver.

- Press the FM Switch button to enter FM radio mode.
- Use the keypad or navigation buttons to tune to desired FM frequencies.
- Press the FM Switch button again to exit FM radio mode and return to two-way radio operation.

## 6. Programming and Channel Management

The UV5F supports up to 128 channels. While basic frequency input can be done via the keypad, advanced programming and channel management are often performed using computer software.

- For computer programming, the radio is compatible with software like CHIRP. Users have reported success using the "Abbre AR-F5" radio profile within CHIRP for programming.
- A programming cable (not included in standard package) is required to connect the radio to a computer.

## MAINTENANCE

### 1. General Care

- Keep the radio clean by wiping it with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Avoid exposing the radio to extreme temperatures, direct sunlight for prolonged periods, or excessive dust.
- While the radio is designed to be drop-resistant and IP54 waterproof, avoid intentional drops or submersion in water.



Image: The Wanneton UV5F radio depicted in a broken concrete environment, illustrating its drop-resistant and IP54 waterproof features.

### 2. Battery Care

- To maximize battery life, avoid fully discharging the battery frequently.
- Store the radio and battery in a cool, dry place when not in use for extended periods.
- If the battery will not be used for a long time, charge it to about 50% capacity before storing.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Radio does not power on.	Battery is dead or not properly installed.	Charge the battery. Ensure the battery is correctly seated and locked into place.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, low battery, or out of range.	Verify frequency/channel settings. Ensure antenna is securely attached. Charge battery. Move closer to the other radio. Check if the radio is set to transmit within its allowed frequency range (Tx: 144-148/420-450Mhz).
Poor audio quality.	Low volume, weak signal, or interference.	Adjust volume. Move to an area with better signal reception. Check for sources of interference.
One-Key Decoding fails.	Other radio not transmitting, or signal too weak/noisy.	Ensure the transmitting radio is active and close by. Try again in a quieter environment.
Difficulty programming with software.	Incorrect software profile, driver issues, or faulty cable.	Ensure you are using the correct software profile (e.g., "Abbree AR-F5" in CHIRP). Install necessary USB drivers. Try a different programming cable if available.

## SPECIFICATIONS

Feature	Detail
Model Number	UV5FPLUS
Frequency Range (Rx)	136-174 MHz (VHF), 400-480 MHz (UHF), 65-108 MHz (FM Radio)
Frequency Range (Tx)	144-148 MHz (VHF), 420-450 MHz (UHF)
Number of Channels	128
Output Power	5W
Battery Type	Lithium Ion (1800 mAh)
Connectivity Protocol	VHF, UHF
Dimensions (Radio only)	Approx. 4.7 x 2.4 x 1.2 inches (12 x 6.1 x 3 cm)
Weight	Approx. 1.04 pounds (0.47 kg)
Waterproof Rating	IP54 (Dust and splash resistant)

# Product Size



Image: A size comparison of the Wanneton UV5F radio next to a smartphone, indicating its dimensions as approximately 9.8 inches total height with antenna, 4.7 inches radio body height, 2.4 inches width, and 1.2 inches thickness.

## Long Standby Time



**5W Transceiver**  
**FCC ID:2AUMTWT-UV5FPLUS**

**1800 Mah**

Image: The back of the Wanneton UV5F radio showing its model number (UV5FPLUS), 5W Transceiver power, and FCC ID (2AUMTWT-UV5FPLUS), alongside the 1800 mAh Li-ion battery and its charging base, highlighting long standby time.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Wanneton website. Keep your purchase receipt as proof of purchase for any warranty claims.