

Quansheng UV-K1(8)

QUANSHENG UV-K1(8) Walkie Talkie Instruction Manual

Model: UV-K1(8)

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your QUANSHENG UV-K1(8) handheld walkie talkie. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

Key Features

- **Extended Battery Life:** Equipped with a 2500 mAh high-capacity Li-Ion battery for prolonged use.
- **Versatile Charging:** Supports Type-C USB charging and includes a dedicated desktop charging base.
- **Full-Band Reception:** Wide reception range from 50-600 MHz, including Aviation Air Band (AM/FM), FM radio, marine, and NOAA weather channels.
- **One-Key Frequency Matching:** Quickly detect and match frequencies and CTCSS/DCS codes from nearby radios.
- **Wireless Radio Replication (Air Copy):** Clone settings from one UV-K1(8) to another wirelessly.
- **Professional Ham Radio Functions:** Includes DTMF selective call, 10-group scrambler, VOX, 1750Hz tone, and 200 memory channels.
- **Customizable:** Supports PC software programming (CHIRP compatible) and DIY power-on photos.
- **Robust Design:** Built to CE and UKCA technical standards for durability.
- **Display:** 1.77-inch full-color LCD with dual-frequency display and cross-band intercom support.

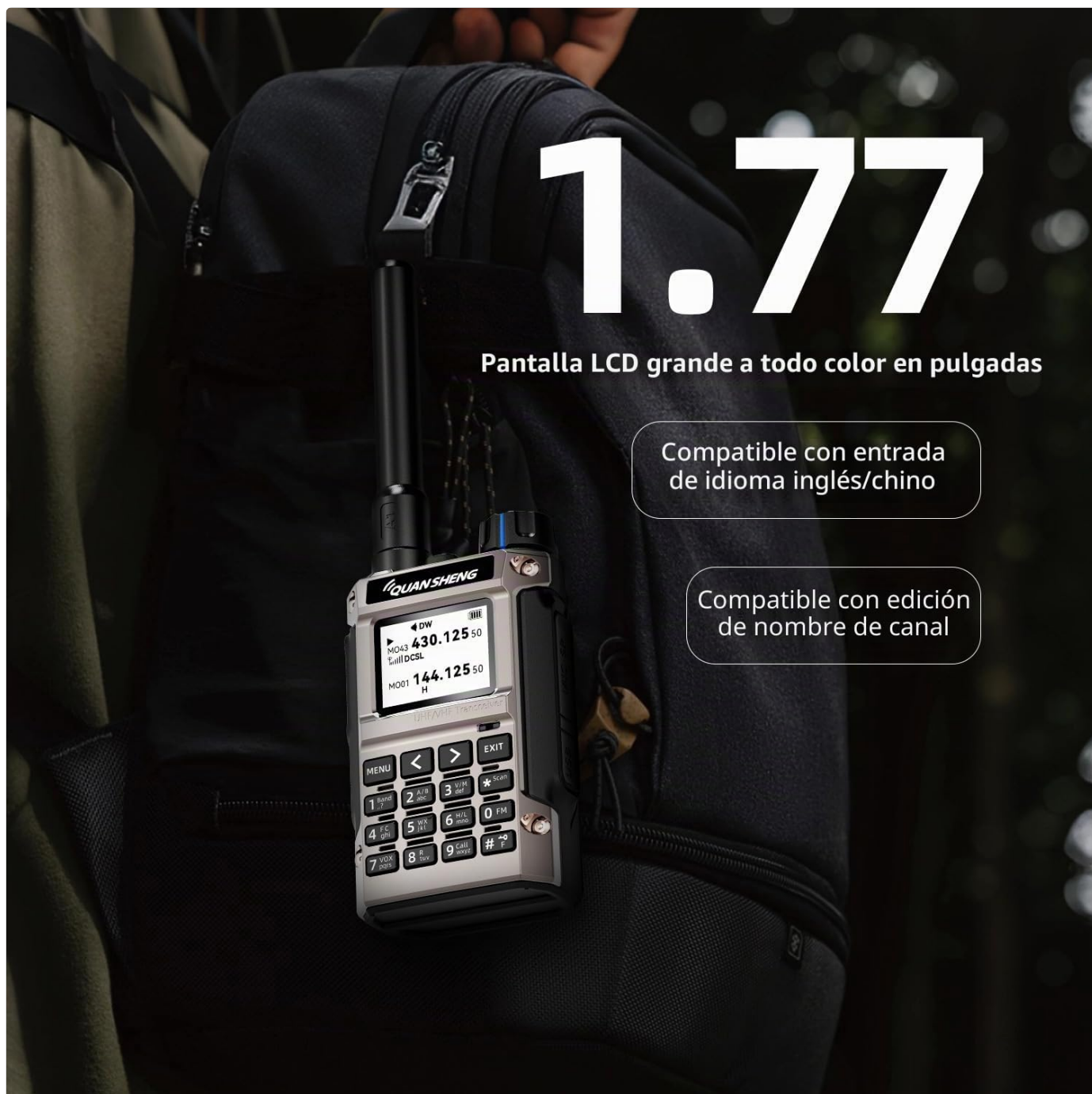


Figure 1: QUANSHENG UV-K1(8) Walkie Talkie displaying its 1.77-inch full-color LCD screen.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact your retailer.

- 1 x QUANSHENG UV-K1(8) Radio Body
- 1 x 2500 mAh Li-Ion Battery
- 1 x High Gain Portable Antenna
- 1 x Desktop Charger Base
- 1 x Belt Clip
- 1 x Hand Strap

Puntos de venta principales

- Batería ampliada de 2500 mAh
- Carga TYPE-C
- Foto de encendido personalizable
- Admite nombre de canal editable
- Programación USB
- Entrada de idioma inglés/chino
- Transmisión multibanda/Recepción de banda completa
- Recepción de banda de aviación AM/FM
- Recepción meteorológica NOAA
- Coincidencia rápida de frecuencia
- Actúa como medidor de frecuencia
- Replicación de radio inalámbrica



Figure 2: Overview of the QUANSHENG UV-K1(8) Walkie Talkie and its key selling points.

3. SETUP

3.1 Battery Installation and Charging

The QUANSHENG UV-K1(8) comes with a 2500 mAh Li-Ion battery. Ensure the battery is fully charged before first use.

1. Align the battery with the compartment on the back of the radio.
2. Press the battery firmly until it clicks into place.
3. To charge, you have two options:
 - **Desktop Charger:** Place the radio into the provided desktop charging base. Ensure the charging indicator light illuminates.
 - **Type-C USB:** Connect a Type-C USB cable to the radio's Type-C port and to a power source (e.g., wall adapter, power bank, car charger).
4. A full charge typically takes several hours. The battery indicator on the display will show charging status.

Método de carga dual

Tipo C + cargador de escritorio



Carga Tipo C



Carga de base

Soporte de batería de larga duración

Cuerpo de radio/Batería

Carga dual TIPO C



Figure 3: The UV-K1(8) supports both Type-C USB charging and charging via its dedicated desktop base.

3.2 Antenna Attachment

Screw the high-gain portable antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

3.3 Initial Power On and Controls Overview

To power on the radio, rotate the volume/power knob clockwise. The LCD screen will illuminate. Familiarize yourself with the radio's controls:



ANÁLISIS DE TECLAS DE FUNCIÓN

Figure 4: Key Function Analysis of the QUANSHENG UV-K1(8).

- **Antenna:** For signal transmission and reception.
- **Volume/Power Knob:** Rotate to turn on/off and adjust volume.
- **Flashlight:** Integrated light source.
- **PTT Key (Push-to-Talk):** Press and hold to transmit, release to receive.
- **Side Keys 1 & 2:** Programmable function keys.
- **Earphone Jack:** For connecting external audio accessories.
- **LCD Display:** Shows frequency, channel, battery status, and other information.
- **Microphone:** For voice input during transmission.
- **Type-C Port:** For charging and PC programming.
- **Speaker:** For audio output.
- **Numeric/Function Keys:** For frequency input, menu navigation, and activating special functions.

3.4 PC Programming

The UV-K1(8) can be customized using PC software (CHIRP compatible). Connect the radio to your computer via the

Type-C port using a Kenwood 2-pin to USB programming cable (sold separately or included in some packages). Refer to the software's instructions for detailed programming steps.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Power On/Off:** Rotate the volume knob.
- **Volume Adjustment:** Rotate the volume knob after powering on.
- **Frequency/Channel Selection:** Use the numeric keypad to directly input frequencies or navigate through memory channels using the UP/DOWN arrow keys.
- **Transmit:** Press and hold the PTT key to transmit. Speak clearly into the microphone. Release PTT to receive.

4.2 Full-Band Reception

The UV-K1(8) supports a wide reception range from 50-600 MHz. This includes:

- **VHF/UHF:** Standard two-way radio communication.
- **Aviation Air Band (AM/FM 108-136 MHz):** Listen to air traffic control communications.
- **FM Radio (76-108 MHz):** For broadcast radio reception.
- **NOAA Weather Channels:** Receive weather alerts and forecasts.
- **Marine Frequencies:** For maritime communications.



AM/FM

Recepción de banda de frecuencia de aviación

Los entusiastas de la aviación pueden recibir información de comunicación de aeronaves y torres de control. Compatible simultáneamente con radio FM

Figure 5: The UV-K1(8) allows reception of AM/FM aviation band frequencies.

Multi-band Receiving & Transmitting



Receiving
Frequency Band
50-600MHz

Transmitting Frequency Band
FCC Version: 144-148MHz/420-450MHz
CE Version: 144-146MHz/430-440MHz

Figure 6: The UV-K1(8) supports multi-band receiving and transmitting across various frequency ranges.

4.3 One-Key Frequency Matching (Frequency Meter)

The "Seek" function allows for quick pairing with other walkie-talkies without PC programming.

1. Press the **F + 4** keys simultaneously to activate the frequency meter function.
2. The radio will scan for nearby transmissions.
3. Once a transmission is detected, the radio will display and automatically configure its frequency and CTCSS/DCS privacy codes to match.
4. This enables instant communication with the detected radio.

F+4 Key Iniciar copia rápida de un canal

Copia rápida de un canal

Actuar como frecuencímetro



Figure 7: The quick channel copy function allows for easy replication of settings between two UV-K1(8) radios.

4.4 Wireless Radio Replication (Air Copy)

To simplify setup, you can wirelessly clone the data configuration from one UV-K1(8) to another.

1. Ensure both radios are powered on and in close proximity.
2. Access the "Air Copy" function through the radio's menu (refer to the on-screen prompts).
3. Follow the instructions to initiate the cloning process. This will transfer channel settings and other configurations.

4.5 Advanced Features

- **DTMF Selective Call:** For private or group calls.
- **10-Group Scrambler:** Enhances communication privacy.
- **VOX (Voice Operated Exchange):** Allows hands-free transmission. Adjust VOX sensitivity in the menu.
- **1750Hz Tone:** Used for accessing certain repeaters.
- **Dual-Frequency Display:** Monitor two frequencies simultaneously.

- **Cross-Band Intercom:** Communicate between different frequency bands.
- **NOAA Weather Scan:** Automatically scan for NOAA weather alerts.
- **DIY Power On Photo:** Personalize the radio's power-on screen.



**Powerful features
No need to say more**

10-Group Scrambler
Multiple security encryption to ensure your call privacy & communication security

Support USB Programming
Support Kenwood 2-pin Jack for Programming

Support DIY Power On Photo
Personalize and showcase your own style

Music accompany you all the way on the journey
Supports FM Channels from 76-108 MHz
Store up to 20 frequencies for easier listening

Figure 8: The UV-K1(8) offers powerful features for enhanced communication and personalization.

5. MAINTENANCE

5.1 Battery Care

- Avoid fully discharging the battery frequently to prolong its lifespan.
- Charge the battery in a cool, dry place.
- If storing the radio for an extended period, charge the battery to about 50% and remove it from the radio.

5.2 Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the Type-C

port and earphone jack are free of dust and debris.

5.3 Storage

Store the radio in a dry, cool environment away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it properly.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, or out of range.	Verify frequency/channel settings. Ensure antenna is securely attached. Move closer to the other radio or repeater.
Poor audio quality.	Low battery, weak signal, or incorrect squelch setting.	Charge battery. Adjust squelch level. Ensure clear line of sight.
Frequency matching fails.	Radios are too far apart or the transmitting radio is not active.	Bring radios closer. Ensure the target radio is transmitting during the scan.

Important Note: When transmitting, ensure your operation complies with local radio licensing regulations (e.g., Ham Radio License) in your region.

7. SPECIFICATIONS

Feature	Detail
Model Number	UV-K1(8)CD
Brand	Quansheng
Dimensions	24.1 x 19.6 x 7.1 cm; 560 g
Color	Orange and Black
Number of Channels	200
Frequency Range (RX)	50-600 MHz (Full Band)
Frequency Range (TX)	144-148 MHz (VHF) / 430-440 MHz (UHF)
Battery	2500 mAh Li-Ion
Maximum Talk Range	10 Kilometers
Water Resistance Level	Not water resistant
Special Functions	Wireless queue, frequency counter, NOAA weather scan, scrambler, multi-screen mode
Compatible Devices	External antennas, headphones, other radios of the same brand or frequency band
Connectors	SMA female antenna connector, K-type headphone connector, Type-C USB port

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