Manuals+

Q & A | Deep Search | Upload

manuals.plus /

› HanRongDa /

› HRD-747 SSB Shortwave Radio FM MW SW CB AIR VHF UHF UBD WX Wide Frequence Receiver with NOAA Alert and Sleep Timer, HanRongDa FM Stereo Rechargeable Digital Radios with Clock and 9.7ft Wire Antenna

HanRongDa HRD-747

HanRongDa HRD-747 Wide Frequency Receiver User Manual

Comprehensive instructions for operating and maintaining your HRD-747 SSB Shortwave Radio.

1. INTRODUCTION

The HanRongDa HRD-747 is a compact and versatile wide-frequency receiver designed for optimal radio reception across various bands. Utilizing modern DSP digital demodulation technology, it offers enhanced sensitivity, selectivity, and anti-mirror interference capabilities. This manual provides detailed guidance on the features, setup, operation, and maintenance of your HRD-747 radio.

Key capabilities include reception of:

- FM (Frequency Modulation)
- MW (Medium Wave)
- SW (Shortwave) including SSB (Upper Sideband) and LSB (Lower Sideband)
- AIR (Aircraft Band)
- CB (City Band)
- VHF (Very High Frequency Band)
- UHF (Ultra High Frequency Band)
- UBD (User-Defined Band)
- WX (North American National Weather Band)

Figure 1: Front view of the HRD-747 Wide Frequency Scanner Radio.

2. FEATURES OVERVIEW

The HRD-747 is equipped with a range of features designed for enhanced usability and performance:

- **DSP Digital Demodulation:** Improves receiving sensitivity, selectivity, and anti-mirror interference

across all bands.

- **Wide Frequency Coverage:** Comprehensive reception from FM to UHF, including SSB and NOAA Weather Band.
- **Multiple Station Selection Methods:** Includes Automatic Search Storage (ATS), Manual Search Pre-stored (VM), and Manual Search (VF).
- **Memory Storage:** Stores up to 1000 radio frequencies with manual deletion support.
- **Adjustable Settings:** Features like adjustable antenna input attenuation (ATT), various bandwidth circuits (BW), 9-level squelch (SQ), and de-emphasis selection (DE) in FM mode.
- **Temperature Display:** Shows temperature in Celsius or Fahrenheit.
- **Sleep and Boot Timers:** Configurable automatic sleep and boot times.
- **Backlit Display:** Warm orange backlight for night use, activating for 10 seconds with any button press.
- **Connectivity:** 3.5mm external antenna input, 3.5mm headphone output, and USB Type-C charging jack.
- **Portable Design:** Compact size with a product clip for easy carrying.
- **Rechargeable Battery:** Uses a removable BL5C 1000mAh lithium battery for extended use.
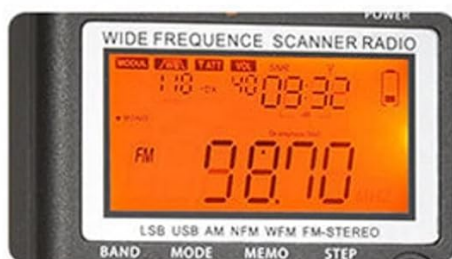
Figure 2: The HRD-747 features an orange backlight for improved visibility in low-light conditions.

Figure 3: Detailed views of the radio's components including the speaker, Type-C charging port, and audio jack.

3. WHAT'S IN THE BOX

Upon unboxing your HanRongDa HRD-747, please ensure all the following items are present:

- 1 x HRD-747 SSB Shortwave Radio
- 1 x BL-5C Lithium Battery
- 1 x USB-C Charging Cable
- 1 x 3.5mm External Antenna
- 1 x Lanyard Strap
- 1 x Waterproof Pouch
- 1 x In-ear Headphone
- 1 x Owner's Manual (this document)

4. SETUP GUIDE

4.1. Battery Installation

1. Locate the battery compartment cover on the back of the radio.
2. Slide the cover open.
3. Insert the provided BL-5C lithium battery, ensuring the contacts align correctly.
4. Close the battery compartment cover securely.

Figure 4: Installing the BL5C lithium battery into the HRD-747.

4.2. Charging the Battery

Before first use, fully charge the radio's battery.

1. Connect the supplied USB-C charging cable to the USB Type-C port on the side of the radio.
2. Connect the other end of the cable to a standard USB power adapter (not included) or a computer USB port.
3. The charging indicator on the display will show charging status. A full charge typically takes a few hours.

4.3. Antenna Connection

For optimal reception, especially on SW, AIR, and other bands, extend the telescopic antenna or connect the external antenna.

1. **Telescopic Antenna:** Gently pull the telescopic antenna upwards until fully extended. For best reception, orient the antenna vertically.
2. **External Antenna:** For enhanced reception, plug the 3.5mm external wire antenna into the 3.5mm antenna input jack on the radio.

Figure 5: Extending the telescopic antenna for broadcast reception.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- Press and hold the **POWER** button located on the top right of the radio to turn it on or off.

5.2. Band Selection

- Press the **BAND** button to cycle through available frequency bands (FM, MW, SW, AIR, CB, VHF, UHF, UBD, WX).

5.3. Tuning and Frequency Adjustment

- **Shuttle Tuning Knob:** Use the **TUNE** knob on the right side of the radio to adjust the frequency. Rotate it clockwise to increase frequency and counter-clockwise to decrease. The shuttle stepping can be adjusted for faster tuning.
- **STEP Button:** Press the **STEP** button to change the tuning step value for the current band. This allows for fine or coarse tuning.
- **Up/Down Arrows:** Use the up and down arrow buttons below the TUNE knob for incremental frequency adjustments.

Shuttle pulley selection

Figure 6: The shuttle pulley (tuning knob) allows for precise frequency selection.

5.4. Mode Selection (SSB/LSB)

- When in Shortwave (SW) band, press the **MODE** button to switch between AM, SSB (Upper Sideband), and LSB (Lower Sideband).
- For SSB/LSB reception, fine-tuning with the TUNE knob is crucial to clarify voice signals.

5.5. Memory Functions (MEMO)

The radio can store up to 1000 radio frequencies.

- **Storing a Station:** Tune to the desired frequency. Press and hold the **MEMO** button until the display indicates the station is saved.
- **Recalling a Station:** Briefly press the **MEMO** button, then use the TUNE knob or arrow buttons to navigate through stored frequencies.
- **Deleting a Station:** Select the stored station you wish to delete. Press and hold the **DEL** button until the display confirms deletion.

5.6. Automatic Search Storage (ATS)

- To automatically scan and store available stations in the current band, press and hold the **BAND** button. The radio will scan and save strong signals.

5.7. Volume Control

- Use the **VOL+** and **VOL-** buttons to adjust the audio output volume.

5.8. Advanced Settings (SET Menu)

Press the **SET** button to access advanced settings. Use the TUNE knob or arrow buttons to navigate and the SET button again to confirm selections.

- **ATT (Attenuation):** Adjusts antenna input attenuation to prevent signal overload, especially with external antennas.
- **BW (Bandwidth):** Selects various bandwidths for improved signal clarity and interference reduction.
- **SQ (Squelch):** Adjusts the 9-level squelch to mute weak signals and background noise.
- **DE (De-emphasis):** Selects de-emphasis settings in FM band mode.
- **Country/Region Settings:** Adjusts FM and AM band frequencies for different regions.
- **STEP:** Allows adjustment of step values for each wave band.
- **Temperature Unit:** Switch between Celsius and Fahrenheit display.

5.9. Lock Function

- Press the **LOCK** button to lock all buttons and prevent accidental changes. Press again to unlock.

5.10. Sleep Timer and Auto Boot

- These functions can be configured within the **SET** menu to automatically turn the radio off after a set period or turn it on at a specific time.

6. MAINTENANCE

6.1. Cleaning

- Wipe the radio with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Avoid exposing the radio to excessive dust or moisture.

6.2. Battery Care

- If the radio will not be used for an extended period, remove the BL-5C battery to prevent leakage.
- Charge the battery regularly, even if not in use, to maintain its lifespan.

6.3. Storage

- Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- Use the provided waterproof pouch for protection during travel or storage.

Product design with clip

HRD747 is your caring friend, easy to carry
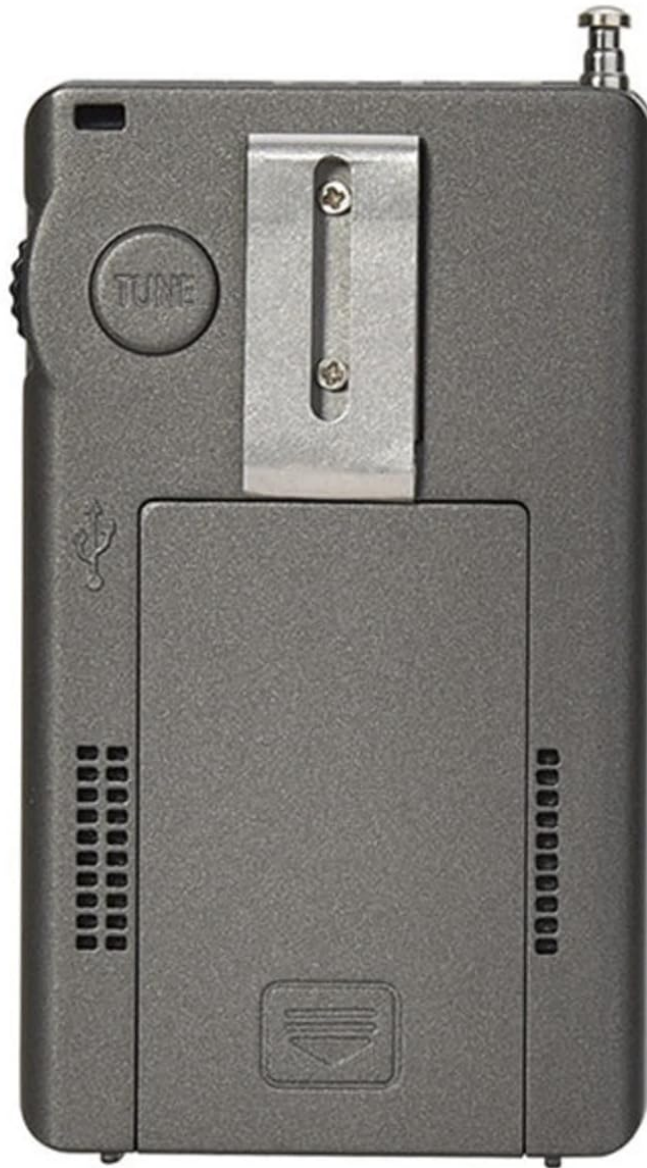
Figure 7: The HRD-747 features a convenient clip for portability.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Ensure the battery is inserted with correct polarity.
Poor reception/static.	Antenna not extended or external antenna not connected. Weak signal. Interference.	Fully extend the telescopic antenna or connect the external antenna. Try adjusting the radio's position. Adjust ATT or BW settings in the SET menu.

Problem	Possible Cause	Solution
Cannot tune to desired frequency.	Radio is locked. Incorrect tuning step.	Press the LOCK button to unlock. Adjust the tuning step using the STEP button.
SSB/LSB audio is distorted.	Fine-tuning required.	Carefully adjust the TUNE knob for precise frequency alignment in SSB/LSB mode.
Display backlight not staying on.	Normal operation; backlight is temporary.	The backlight is designed to turn off after 10 seconds to conserve battery. Press any button to reactivate.

8. SPECIFICATIONS

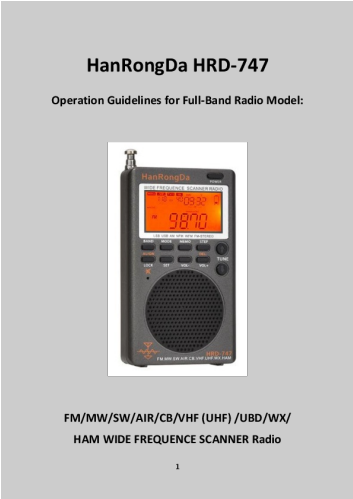| Feature	Detail
Model Number	HRD-747
Product Dimensions	4.4 x 2.4 x 0.8 inches (11.18 x 6.1 x 2.03 cm)
Item Weight	3.5 ounces (99.22 grams)
Battery	1 x BL-5C Lithium Ion battery (1000mAh, 3.7V)
Charging Port	USB Type-C
Tuner Technology	DSP Digital Demodulation
Supported Bands	FM, MW, SW (SSB/LSB), AIR, CB, VHF, UHF, UBD, WX (NOAA)
Memory Presets	Up to 1000 frequencies
Display	Backlit LCD (Orange)
Audio Output	Built-in loudspeaker, 3.5mm headphone jack
External Antenna Input	3.5mm
Manufacturer	HanRongDa
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or contact HanRongDa customer service directly. Contact details are typically provided on the product packaging or the official HanRongDa website.

Please retain your purchase receipt as proof of purchase for any warranty claims.

Related Documents - HRD-747

HanRongDa HRD-747 Operation Guidelines for Full-Band Radio Model: FM/MW/SW/AIR/CB/VHF (UHF) /USB/WX/ HAM WIDE FREQUENCE SCANNER Radio	**HanRongDa HRD-747 Operation Guidelines** Comprehensive operation guidelines for the HanRongDa HRD-747 full-band scanner radio. Learn about its features, button functions, display symbols, and technical specifications for optimal use.
	HRD-392 FM Teaching Headset User Manual and Technical Specifications Comprehensive user manual for the Hanrongda HRD-392 FM Teaching Headset, detailing its features, operation, technical specifications, and FCC compliance.
HanRongDa HRD-905 emergency - emergency radio User manual	**HanRongDa HRD-905 Emergency Radio User Manual** User manual for the HanRongDa HRD-905 emergency radio. Discover features like SOS alarm, flashlight, power bank, multiple charging methods (solar, hand generator, DC 5V), and reception of FM, AM, SW, and WX bands. Essential guide for reliable communication and safety.
	HanRongDa HRD-602 Mini FM/AM Portable Radio Operation Instructions Comprehensive operation instructions for the HanRongDa HRD-602 Mini FM/AM Portable Radio, designed for fitness activities. Learn about its features, step counting, radio functions, and specifications.
	Hanrongda HRD-802/W3 Signal Repeater Operation Guide User manual for the Hanrongda HRD-802/W3 Signal Repeater. Learn how to improve indoor radio reception for SW, MW, and AIR bands. Covers installation, battery options, button functions, indicator lights, mounting, and FCC compliance.
APP Operating Instructions Model:HRD-757	**HanRongDa HRD-757 Radio APP Operating Instructions and Features** Comprehensive guide to operating the HanRongDa HRD-757 radio using its dedicated mobile application, 'Radio-CT'. Learn how to download, connect, and utilize features like radio tuning, music playback, and settings via the Radio-CT app.

Documents - HanRongDa – HRD-747

[HanRongDa HRD-747 Operation Guidelines](#)
Comprehensive operation guidelines for the HanRongDa HRD-747 full-band scanner radio. Learn about its features, button functions, display symbols, and technical specifications for optimal use.
lang:en score:28 filesize: 630.37 K page_count: 34 document date: 2022-02-27

[HanRongDa HRD-747 Wide Frequency Scanner Radio | Product Overview](#)
Discover the HanRongDa HRD-747, a versatile wide frequency scanner radio with FM, MW, SW, SSB, LSB, AIR band, and CB reception. Featuring 13+ years of industry experience and OEM/ODM customization.
lang:en score:15 filesize: 73.04 K page_count: 1 document date: 2022-05-19

[pdf]
Untitled Bekijk de handleiding en veiligheidsinformatie HanRongDa® HRD 747 radio Wereldontvanger FM MW SW SSB LSB AIR band CB bol original media s Yqv9l7l00XKY |||
...
lang:en score:15 filesize: 729.1 K page_count: 12 document date: 2022-05-13