

Yupiteru HR-500

Instruction Manual

YUPITERU MULTI-BAND RECEIVER HR-500

1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your Yupiteru HR-500 Multi-Band Receiver. Please read this manual thoroughly before operating the device to ensure safe and efficient use. The HR-500 is designed for receiving a wide range of frequencies, offering versatile communication monitoring capabilities.

Key Features:

- Wide reception frequency range: 108-170MHz, 300-470MHz, 806-1000MHz
- Multiple reception modes: FM, AM, AUTO
- 500 channel memory capacity
- High-speed search and scan functions

2. Package Contents

Verify that all the following items are included in your package:

- Yupiteru HR-500 Multi-Band Receiver (1)
- Flexible Antenna (1)
- AC Adapter (1)
- Belt Clip (1)
- Instruction Manual / Warranty Card (1)

3. Product Overview

Familiarize yourself with the components and controls of your HR-500 receiver.





Figure 3.1: Front view of the Yupiteru HR-500 Multi-Band Receiver with antenna attached.

YUPITERU

マルチバンドレシーバー



盗聴不安を
解決する
安心機能

無線式盗聴器周波数234ch登録済

盗聴波発見
専用モード搭載

カンタン操作の ハンディレシーバー

カンタン受信10バンドサーチ機能

航空無線

アマチュア無線
(VHF)

消防、救急
防災他

小電力コードレス

アマチュア無線
(UHF)

タクシー無線

簡易無線他

地域防災
行政無線

MCA(業務)
無線

パーソナル無線

- 高速スキャン/サーチ機能
- 10チャンネルのプライオリティメモリ
- 音声反転方式秘話解読機能
- どこでも使える3電源方式

108~170MHz、300~470MHz、806~1000MHz



EXPARTNER® HR-500

Figure 3.2: Detailed view of the HR-500's display and control buttons.

Controls and Indicators:

- **POWER Button:** Turns the unit on/off.

- **Display Screen:** Shows frequency, mode, and status information.
- **Keypad (0-9):** For direct frequency entry and function selection.
- **MODE Button:** Selects reception mode (FM, AM, AUTO).
- **STEP Button:** Adjusts frequency step size.
- **SCAN Button:** Initiates frequency scanning.
- **SEARCH Button:** Initiates frequency searching.
- **VOLUME Control:** Adjusts audio output level.
- **Antenna Connector (BNC):** For connecting the flexible antenna.

4. Setup

4.1. Battery Installation

The HR-500 operates on three AA alkaline batteries (not included) or an external power source. To install batteries:

1. Open the battery compartment cover on the back of the unit.
2. Insert three AA alkaline batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

Alternatively, connect the supplied AC adapter to the DC IN jack on the unit and plug it into a standard AC outlet (100V). For car use, a 12V car battery adapter can be used (sold separately).

4.2. Antenna Connection

Attach the flexible antenna to the BNC connector on the top of the receiver by aligning the antenna's connector with the receiver's BNC port and twisting clockwise until secure.

5. Operating Instructions

5.1. Power On/Off

Press and hold the **POWER** button to turn the receiver on or off.

5.2. Setting Reception Frequency and Mode

1. **Direct Frequency Entry:** Use the numeric keypad to enter the desired frequency. Press the **DECIDE** () button to confirm.
2. **Mode Selection:** Press the **MODE** button repeatedly to cycle through FM, AM, and AUTO reception modes.
3. **Frequency Step:** Press the **STEP** button to select the desired frequency step size (5kHz, 6.25kHz, 10kHz, 12.5kHz, 25kHz, AUTO).

5.3. Scanning and Searching

The HR-500 features various scanning and searching functions:

- **Scan Function:** Press the **SCAN** button to start scanning through programmed memory channels. The scan speed is up to 30 channels/second.
- **Search Function:** Press the **SEARCH** button to search within a specified frequency range. The search speed is 30 steps/second.
- **Memory Channels:** The unit has 500 total memory channels, including 234 registered frequencies,

100 search pass memories, and 10 priority channels. Channels are organized into 10 banks, with 50 channels per bank.

5.4. Volume Adjustment

Rotate the **VOLUME** knob to adjust the audio output level. The low frequency output is 90mW or more (at 4.5V, 8Ω, THD 10%).

6. Maintenance

6.1. Cleaning

Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners, solvents, or strong detergents, as these may damage the casing or internal components.

6.2. Battery Care

If the unit will not be used for an extended period, remove the batteries to prevent leakage and potential damage. Dispose of used batteries according to local regulations.

7. Troubleshooting

If you experience issues with your HR-500, refer to the following common problems and solutions:

- **No Power:** Check battery installation and charge level. Ensure the AC adapter is properly connected if using external power.
- **No Reception:** Verify the antenna is securely attached. Check the selected frequency and mode. Ensure you are within range of a signal.
- **Poor Audio Quality:** Adjust the volume. Check for interference from other electronic devices.

If the problem persists after attempting these solutions, please contact Yupiteru customer support.

8. Specifications

Feature	Specification
Reception Frequency Range	108-170MHz, 300-470MHz, 806-1000MHz
Reception Modes	FM, AM, AUTO
Frequency Step	5kHz, 6.25kHz, 10kHz, 12.5kHz, 25kHz, AUTO
Reception Sensitivity (FM)	0.5μV or less (SINAD 12dB)
Reception Sensitivity (AM)	0.7μV or less (S/N 10dB)
Channel Memory	500 channels (408 pre-registered)
Registered Frequencies	234 channels
Search Pass Memory	100 channels
Priority Channel Memory	10 channels

Bank Memory	10 banks (50 channels/bank)
Band Memory	10 bands
Search Speed	30 steps/second
Scan Speed	30 channels/second (max)
Antenna Impedance/Type	50Ω / BNC
Power Supply	4.5V (3 x AA alkaline batteries), External Power (AC adapter: 100V AC, Car battery: 12V DC)
Low Frequency Output	90mW or more (4.5V, 8Ω, THD 10%)
Current Consumption (at 4.5V)	Max output: 180mA (standard), Standby: 60mA (standard)
Operating Temperature Range	0°C to 50°C (AC adapter: 0°C to 40°C)
External Dimensions (W x H x D)	60 x 120 x 32 mm (excluding protrusions)
Weight	290g (including antenna and batteries)

9. Warranty and Support

Your Yupiteru HR-500 Multi-Band Receiver comes with a warranty as specified in the included warranty card. Please retain your proof of purchase for warranty claims.

For technical support, service, or inquiries, please refer to the contact information provided on the warranty card or visit the official Yupiteru website. Do not attempt to repair the unit yourself, as this may void your warranty.