

## HYS G25W

# HYS G25W Dual Band 25W Car Mobile Radio Transceiver User Manual

Model: G25W

## 1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your HYS G25W Dual Band 25W Car Mobile Radio Transceiver. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

### Package Contents

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

- 1x TC-B25W Mobile Transceiver (with 12000 mAh battery)
- 1x DTMF Microphone
- 1x 12.6V Adaptor
- 1x Power line
- 1x Programming cable (with CD software)
- 1x User Manual
- 1x NL-R2S Dual Band Antenna
- 1x SO-239 TO PL259 90 Degree Adaptor
- 1x RG58 Cable (PL259 to SO239)
- 1x TC-7 Car Clip



Figure 1.1: All components included in the HYS G25W package. This image displays the main radio unit, microphone, power adapter, various cables, antennas, and mounting accessories.

## 2. PRODUCT OVERVIEW

The HYS G25W is a dual-band mobile radio transceiver designed for VHF (136-174MHz) and UHF (400-470MHz) communication. It features a 25W output power, a built-in 12000mAh battery, and a cooling fan for extended operation. The included DTMF microphone offers a dual PTT function for flexible transmission control.



**Figure 2.1:** Front and rear view of the HYS G25W radio unit and the DTMF microphone. Key components labeled include the DC 13.8V charge hole, power switch, speaker switch, earphone port, MIC connector, and antenna connector on the radio. The microphone highlights PTT A and PTT B for dual PTT functionality.

### Key Features:

- Dual Band: 136-174MHz / 400-470MHz
- Output Power: 25W
- Built-in 12000mAh Li-ion Battery
- Dual PTT Function on Microphone
- 199 Channel Capacity
- Dual Reception/Dual Display
- Multi Silent Mode (QT/QTADT/QTXTD)
- 107 groups DCS / 58 groups CTCSS
- PTT ID (Voice broadcast PTT ID)
- FM Radio Function

### 3. SETUP

Proper setup is crucial for optimal performance and safety. Follow the instructions below for various usage scenarios.

#### 3.1 General Connections

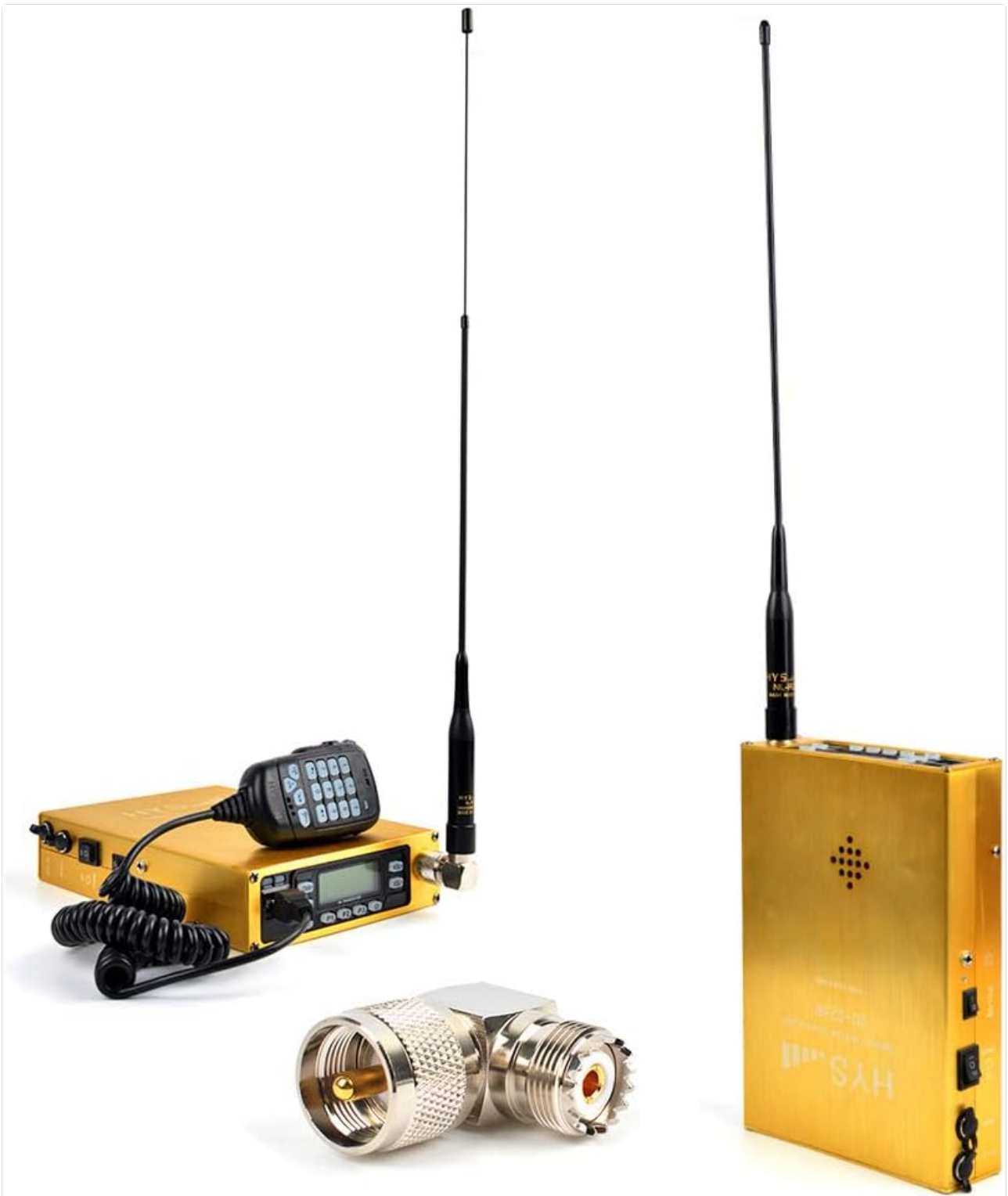
- **Antenna Connection:** Connect the NL-R2S Dual Band Antenna to the antenna connector on the radio unit. Ensure it is securely tightened.
- **Microphone Connection:** Plug the DTMF Microphone into the MIC connector on the front panel of the radio.
- **Power Connection:** For charging or continuous operation, connect the 12.6V Adaptor to the DC 13.8V charge hole.

#### 3.2 Specific Setup Scenarios

The HYS G25W is versatile and can be configured for different communication needs:

##### Backpack Radio Communication

For portable use, carry the TC-G25W Mobile Radio and the NL-R2S Dual Band Antenna. Ensure the antenna is properly connected to the radio unit.



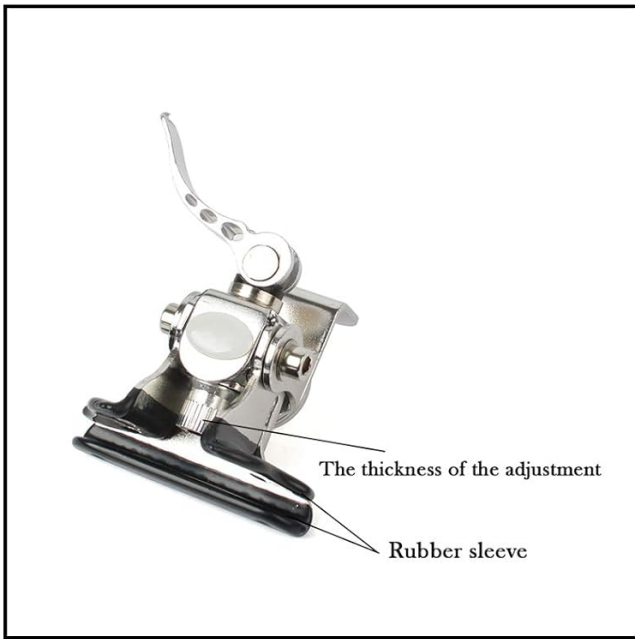
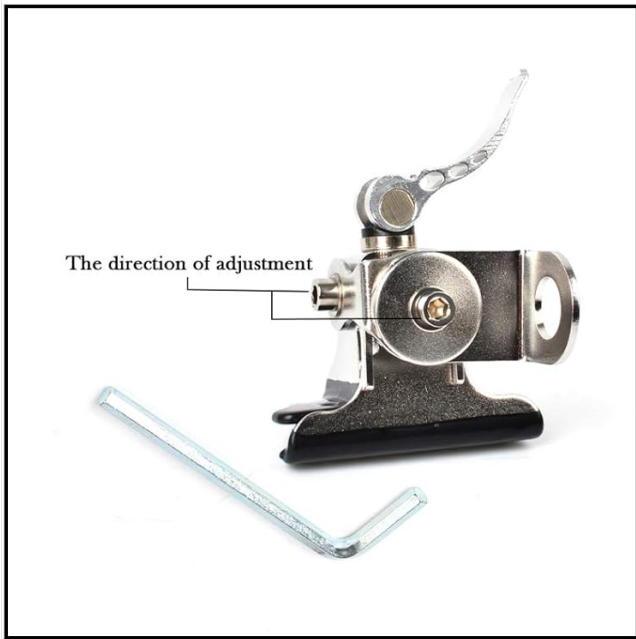
**Figure 3.1:** The HYS G25W radio unit connected to the NL-R2S Dual Band Antenna, suitable for backpack or portable communication setups.

### **Land Radio Communication**

For fixed or temporary land-based setups, use the TC-G25W Mobile Radio, the NL-R2S Dual Band Antenna, and the SO-239 TO PL259 90 Degree Adaptor. The adaptor allows for flexible antenna positioning.

### **Car Radio Communication**

For in-vehicle use, you will need the TC-G25W Mobile Radio, the NL-R2S Dual Band Antenna, the RG58 Cable, and the TC-7 Car Clip. The car clip and RG58 cable facilitate mounting and external antenna connection.



**Figure 3.2:** Various angles and measurements of the TC-7 car clip mount, demonstrating its rotational and adjustment capabilities for secure installation.



Figure 3.3: The HYS G25W radio setup for car communication, showing the NL-R2S antenna, RG58 cable, and TC-7 car clip mounted on a vehicle surface.

## 4. OPERATING INSTRUCTIONS

This section outlines the basic operation of your HYS G25W radio.

### 4.1 Power On/Off

To power on the radio, press and hold the **Power Switch** located on the side of the unit. Repeat the action to power off the radio.

### 4.2 Channel Selection

Use the channel up/down buttons on the radio's front panel or the DTMF microphone to navigate through the 199 available channels.

### 4.3 Dual PTT Function

The DTMF microphone features two Push-To-Talk (PTT) buttons, labeled **PTT A** and **PTT B**. These allow for independent transmission on two different frequencies or channels, enhancing operational flexibility.

### 4.4 Volume Control

Adjust the volume using the dedicated volume knob on the radio's front panel.

### 4.5 Advanced Functions

- **Silent Modes (QT/QTADT/QTXTD):** Configure these modes to filter out unwanted signals and only receive

transmissions with matching tones.

- **DCS/CTCSS:** Utilize Digital Coded Squelch (DCS) and Continuous Tone-Coded Squelch System (CTCSS) for private group communication.
- **PTT ID:** Enable PTT ID for voice broadcast of your identification during transmission.
- **FM Radio:** The unit includes an FM radio function for entertainment.

## 5. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your HYS G25W radio.

### 5.1 Battery Charging

The radio is equipped with a 12000mAh Li-ion battery. Use the provided 12.6V Adaptor to charge the battery. A full charge provides approximately 4 hours of continuous operation and 8 hours of standby time. Do not use unauthorized chargers.

### 5.2 Cleaning

Wipe the radio's exterior with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the casing or internal components.

### 5.3 Storage

When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the battery is partially charged (around 50%) before storage to prolong its lifespan.

## 6. TROUBLESHOOTING

If you encounter issues with your HYS G25W radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Low or depleted battery; Power switch off; Faulty power connection.	Charge the battery; Ensure power switch is on; Check power cable and adapter connections.
Cannot transmit or receive	Incorrect frequency/channel; Antenna not connected; Squelch level too high; CTCSS/DCS mismatch.	Verify frequency/channel settings; Connect antenna securely; Adjust squelch level; Check CTCSS/DCS settings.
Poor audio quality	Weak signal; Antenna issue; Speaker/microphone fault; Interference.	Move to an area with better signal; Check antenna connection; Test with another microphone/speaker if possible; Identify and reduce sources of interference.
Battery drains quickly	Continuous transmission; High power setting; Old battery.	Reduce transmission time; Use low power setting when possible; Consider battery replacement if significantly degraded.

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

## 7. SPECIFICATIONS

Below are the technical specifications for the HYS G25W Dual Band Mobile Radio Transceiver:

Feature	Specification
Brand	HYS
Model Number	G25W
Frequency Range	VHF: 136-174 MHz, UHF: 400-470 MHz
Output Power	25W (High) / 20W (Low)
Channel Capacity	199
Battery Capacity	12000 mAh Li-ion
Continuous Working Hour	Approx. 4 Hours
Standby Time	Approx. 8 Hours
Rated Voltage	13.8V
Impedance	50 Ohms
Tuner Type	UHF, VHF
Connectivity Protocol	Analog Voice Transmission
Water Resistance Level	Waterproof
FCC IDENTIFIER	2AC2Z-898UV

## 8. WARRANTY AND REGULATORY INFORMATION

### 8.1 Warranty

This item can be returned in its original condition for a refund or replacement within 30 days of receipt. Please refer to the retailer's return policy for specific details.

### 8.2 Regulatory Compliance

The HYS G25W Transceiver complies with relevant regulatory standards. The FCC IDENTIFIER for this product is **2AC2Z-898UV**.

