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> Icom IC-705 HF/VHF/UHF All Mode Portable QRP 5W/10W Transceiver User Manual

ICOM IC-705

Icom IC-705 HF/VHF/UHF All Mode Portable QRP Transceiver

USER MANUAL

Introduction

The Icom IC-705 is a versatile HF/VHF/UHF All Mode Portable QRP Transceiver designed for amateur radio enthusiasts. It offers a wide range of operating modes including D-STAR DV, SSB, CW, AM, and FM, covering frequencies from HF to 50/144/430 MHz. This manual provides essential information for setting up, operating, and maintaining your IC-705 transceiver.

Key features include:

- Output Power: 10W with 13.8VDC external power supply, 5W with BP-272 li-ion battery pack.
- Receiver: 0.030–199.999 MHz, 400.000–470.000 MHz.
- Transmitter: Covers amateur bands from 1.8 MHz to 450 MHz.
- Large 4.3-inch touch screen color display for improved visibility and operability.
- Built-in Bluetooth and wireless LAN for smartphone linking and remote control.

Safety Information

Please read and understand all safety precautions before operating the IC-705 transceiver. Failure to do so may result in personal injury or damage to the equipment.

- **Power Supply:** Use only the specified power supply (13.8VDC) or the provided BP-272 battery pack. Incorrect voltage can damage the unit.
- **Antenna Connection:** Always connect a proper antenna before transmitting to prevent damage to the transceiver's final amplifier.
- **Ventilation:** Ensure adequate ventilation around the transceiver to prevent overheating, especially during prolonged transmission.
- **Water Exposure:** This product is not water resistant. Avoid exposure to rain, moisture, or liquids.
- **Battery Handling:** Handle the Li-ion battery pack with care. Do not short-circuit, disassemble, or expose to extreme temperatures.
- **Interference:** Be aware that radio transmissions can interfere with other electronic devices.

What's in the Box

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

- Icom IC-705 HF/VHF/UHF All Mode Transceiver
- HM-243 Speaker-Microphone
- BP-272 Li-ion battery pack (7.4V, 2000 mAh)
- DC Power Cable

Product Overview

Familiarize yourself with the various components and connectors of the IC-705 transceiver.



Figure 1: Front Panel. This view shows the main display, tuning knobs, and function buttons for operation.

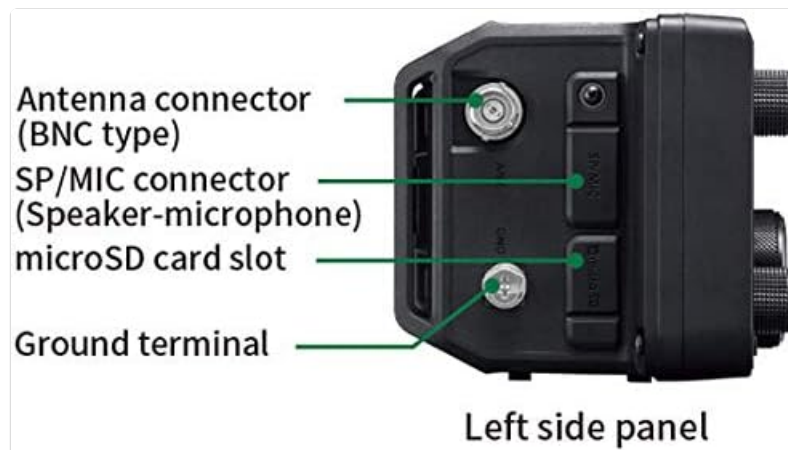


Figure 2: Left Side Panel. This panel includes the Antenna connector (BNC type), SP/MIC connector (Speaker-microphone), microSD card slot, and Ground terminal.

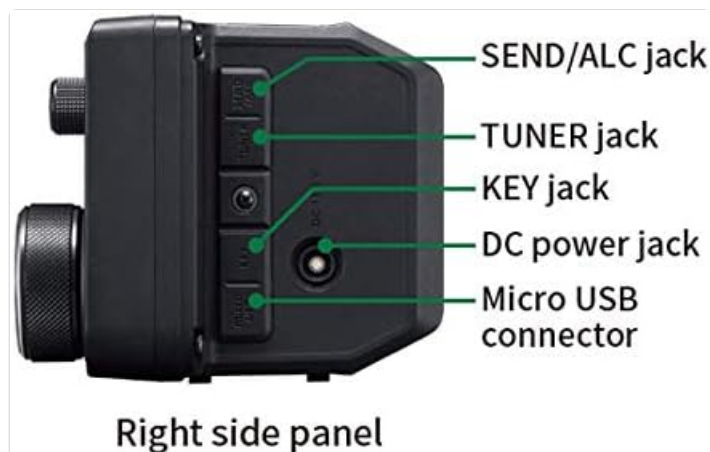


Figure 3: Right Side Panel. This panel features the SEND/ALC jack, TUNER jack, KEY jack, DC power jack, and Micro USB connector.

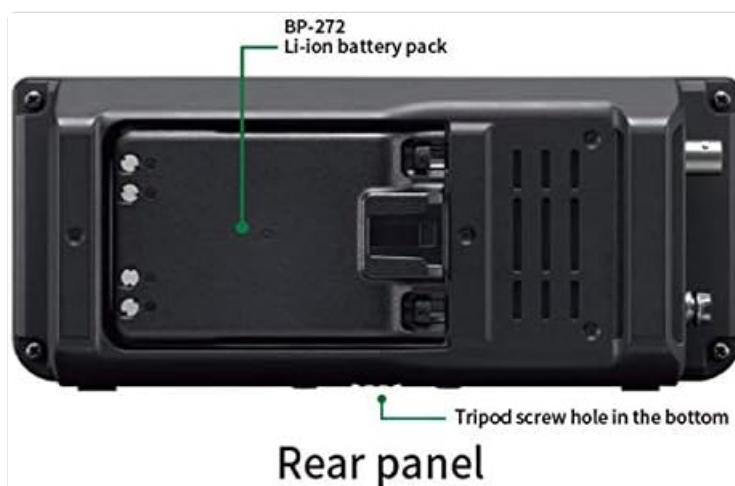


Figure 4: Rear Panel. This view highlights the compartment for the BP-272 Li-ion battery pack and the tripod screw hole located at the bottom.

Setup

1. Battery Installation:

Locate the battery compartment on the rear panel (Figure 4). Insert the BP-272 Li-ion battery pack, ensuring it clicks securely into place. The battery is included and required for portable operation.

2. Antenna Connection:

Connect your appropriate antenna to the BNC type Antenna connector on the left side panel (Figure 2). Ensure the connection is secure before powering on the unit.

3. Speaker-Microphone Connection:

Plug the HM-243 Speaker-Microphone into the SP/MIC connector on the left side panel (Figure 2).

4. External Power (Optional):

For 10W output power or extended operation, connect the DC Power Cable to a 13.8VDC external power supply and then to the DC power jack on the right side panel (Figure 3).

5. Initial Power On:

Press and hold the power button located on the front panel to turn on the transceiver. The display will illuminate, indicating the unit is ready for operation.

Operating Instructions

The IC-705 offers a wide array of operating modes and features. This section covers basic operation.

Frequency Selection and Tuning

- Use the main tuning dial to adjust the operating frequency.
- Tap the frequency display on the 4.3-inch touch screen to bring up a numeric keypad for direct frequency entry.
- The spectrum scope on the display provides a visual representation of activity across the band, allowing for quick identification of signals.

Mode Selection

The IC-705 supports D-STAR DV, SSB, CW, AM, and FM modes. Tap the mode indicator on the display to cycle through available modes or access a mode selection menu.

Transmitting

- Ensure your antenna is properly connected and tuned for the desired frequency.
- Press the PTT (Push-To-Talk) button on the HM-243 Speaker-Microphone to transmit. The TX indicator on the display will illuminate.
- Adjust the microphone gain as needed for clear audio.

Bluetooth and Wireless LAN

The built-in Bluetooth and wireless LAN capabilities allow for advanced operations such as smartphone linking and remote control. Refer to the detailed software manual for specific instructions on configuring these features.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transceiver's exterior. For stubborn dirt, a slightly damp cloth with mild detergent can be used, followed by a dry cloth. Avoid abrasive cleaners or solvents.
- **Battery Care:** To prolong the life of the BP-272 Li-ion battery pack, avoid fully discharging it frequently. Store the battery in a cool, dry place when not in use for extended periods.
- **Firmware Updates:** Periodically check the Icom website for firmware updates to ensure optimal performance and access to new features. Follow the manufacturer's instructions carefully when performing updates.

Troubleshooting

If you encounter issues with your IC-705, refer to the following common troubleshooting steps:

- **No Power:**
 - Check if the BP-272 battery pack is properly installed and charged.
 - If using external power, ensure the DC power cable is securely connected and the power supply is active.
- **No Audio:**
 - Verify the volume level is not set to minimum.
 - Ensure the HM-243 Speaker-Microphone is correctly plugged in.
- **Cannot Transmit:**
 - Confirm an antenna is connected. Transmitting without an antenna can damage the unit.
 - Check if the frequency is within the allowed transmit range for your license and the transceiver.
- **Display Issues:**
 - Try restarting the transceiver.
 - Ensure the display brightness is adjusted appropriately for your environment.

For more complex issues, consult the full Icom IC-705 service manual or contact Icom customer support.

Specifications

Feature	Detail
Brand	ICOM
Model Number	IC-705
Output Power	10W (13.8VDC), 5W (BP-272 battery)
Receiver Frequency Range	0.030–199.999 MHz, 400.000–470.000 MHz
Transmitter Frequency Range	1.8–1.999, 3.5–3.999, 5.255–5.405, 7.0–7.3, 10.1–10.15, 14.0–14.35, 18.068–18.168, 21.0–21.45, 24.89–24.99, 28.0–29.7, 50.0–54.0, 144.0–148.0, 430.0–450.0 MHz
Display	4.3-inch Touch Screen Color
Connectivity	Built-in Bluetooth, Wireless LAN
Power Source	BP-272 Li-ion battery (included), 13.8VDC external
Item Weight	Approximately 5 pounds
Product Dimensions	Approximately 11 x 9 x 7 inches (packaging dimensions) / 3.2"D x 3.29"W x 3.23"H (product dimensions)
Country of Origin	Japan
Number of Channels	500

Warranty and Support

The Icom IC-705 Transceiver comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Icom website for detailed warranty terms and conditions.

For technical support, service, or additional information, please contact Icom customer service or visit their official support portal. Keep your purchase receipt and serial number (found on the rear panel, Figure 5) handy when seeking support.





Figure 5: FCC Label and Serial Number. This label provides regulatory information and the unique serial number of the unit.

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This manual is for informational purposes only. Specifications are subject to change without notice.

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