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ICOM ID-52E

ICOM ID-52E E/R Portable VHF/UHF D-Star Transceiver User Manual

Model: ID-52E

PRODUCT OVERVIEW

The ICOM ID-52E is a portable VHF/UHF digital transceiver designed for reliable two-way communication. It features a robust, waterproof design (IPX7) and includes integrated GPS functionality. This manual provides essential information for setting up, operating, and maintaining your ID-52E transceiver.



Image: Front view of the ICOM ID-52E transceiver. This image shows the device's main display, antenna, and key control buttons, highlighting its compact and portable design.

SAFETY INFORMATION

Please read all instructions carefully before using the ID-52E transceiver. Failure to follow these guidelines may result in injury, damage to the device, or voiding the warranty.

- Do not expose the transceiver to extreme temperatures or direct sunlight for prolonged periods.
- Ensure the battery pack is correctly installed and charged using only ICOM-approved chargers.
- Avoid operating the transceiver near medical devices or in areas where radio transmissions are prohibited.
- Do not attempt to disassemble or modify the transceiver. Refer all servicing to qualified personnel.
- The device is IPX7 waterproof; however, avoid intentional submersion beyond specified limits.

INCLUDED COMPONENTS

The ICOM ID-52E package typically includes the following items:

- ICOM ID-52E Transceiver Unit
- Battery Pack (e.g., BP-272 or BP-307)
- Antenna
- Belt Clip (may be pre-attached or separate)
- Charger (may vary by region/package)
- User Manual (this document)

SETUP

1. Attaching the Antenna

Carefully screw the supplied antenna clockwise onto the antenna connector on the top of the transceiver until it is finger-tight. Do not overtighten.

2. Installing the Battery Pack

1. Ensure the transceiver is turned off.
2. Align the battery pack with the battery compartment on the rear of the transceiver.
3. Slide the battery pack into place until it clicks securely.
4. Verify the battery release latch is engaged to prevent accidental detachment.

3. Charging the Battery

Before first use, fully charge the battery pack. Connect the charger to a power outlet and then connect it to the transceiver's charging port. The charging indicator will show the charging status. A full charge typically takes several hours.

OPERATING THE TRANSCEIVER

Power On/Off

Press and hold the **POWER** button (usually located on the top or side) for approximately 1 second to turn the transceiver on or off.

Basic Operation

- **Frequency Selection:** Use the dial or keypad to enter the desired frequency.

- **Mode Selection:** Press the **MODE** button to cycle through available modes (FM, FM-N, DV, etc.).
- **Volume Adjustment:** Rotate the volume knob (typically on top) to adjust the audio output level.
- **Transmitting:** Press and hold the **PTT** (Push-To-Talk) button on the side of the transceiver to transmit. Release to receive.

D-Star Operation

The ID-52E supports D-Star digital voice and data communication. To use D-Star, you will need to configure call signs and repeater settings. Refer to the detailed D-Star section in the full manual for advanced setup.

GPS Functionality

The integrated GPS allows for position reporting and D-PRS (Digital Position Reporting System) operations. Ensure you have a clear view of the sky for optimal GPS signal reception.



Image: Angled view of the ICOM ID-52E transceiver. This perspective highlights the ergonomic design and the placement of side controls, crucial for one-handed operation.

MAINTENANCE

Cleaning

Wipe the transceiver with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure all port covers are securely closed before cleaning to maintain water resistance.

Battery Care

- Recharge the battery before it is completely depleted to prolong its lifespan.
- If storing the transceiver for an extended period, remove the battery pack.
- Store batteries in a cool, dry place.

Antenna Care

Regularly check the antenna for any signs of damage. Ensure it is securely attached before each use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Transceiver does not power on.	Battery is depleted or not installed correctly.	Charge the battery or re-install it securely.
No audio from speaker.	Volume is too low; squelch is set too high; external speaker connected.	Increase volume; adjust squelch; disconnect external speaker if not needed.
Cannot transmit.	Incorrect frequency/mode; PTT button not fully pressed; low battery.	Verify frequency and mode; ensure PTT is fully pressed; charge battery.
Poor GPS signal.	Obstructed view of sky; indoors.	Move to an open outdoor area with clear sky view.

If the problem persists after trying these solutions, please contact ICOM customer support or an authorized service center.

SPECIFICATIONS

Feature	Detail
Model	ID-52E
Brand	ICOM
Frequency Coverage (Tx)	144-146 MHz, 430-440 MHz (EUR version)
Frequency Coverage (Rx)	108-174 MHz, 225-479 MHz, 76.0-108.0 MHz (Broadcast)
Emission Type	F2D, F3E, F7W
Modes	DV, FM, FM-N, WFM (Rx only), AM (Rx only), AM-N (Rx only)
Memory Channels	1000 regular, 4 call, 50 scan edges, 100 skip, 500 broadcast, 2500 repeater, 300 call sign, 300 GPS memory locations
Frequency Resolution	5, 6.25, 8.33, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200 kHz
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Frequency Stability	±2.5 ppm (-20°C to +60°C based on 25°C)
Antenna Impedance	50 ohms (SMA)

Feature	Detail
Power Supply Requirement	7.4 V DC (with BP-272), 7.2 V DC (with BP-307), 5.5 V DC (with BP-273 alkaline cells), External DC 10-16 V DC (at 7.4 V DC)
Output Power (at 7.4 V DC)	5 W, 2.5 W, 1.0 W, 0.5 W, 0.1 W (High, Mid, Low2, Low1, S-low)
Dimensions (W×H×D)	61.1 × 121.6 × 29.7 mm (main unit), 61.1 × 121.6 × 34.8 mm (with BP-272)
Weight (approx.)	330 g (with BP-272 & antenna)
Water Resistance	IPX7 (1 meter depth for 30 minutes)
Included Components	Two-way radio, battery pack, antenna

WARRANTY AND SUPPORT

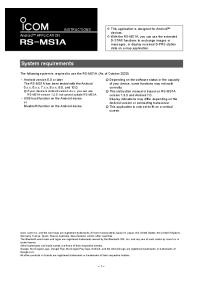
ICOM products are manufactured to high standards and are typically covered by a limited warranty. Please refer to the warranty card included with your product or visit the official ICOM website for detailed warranty terms and conditions specific to your region.

For technical support, service, or inquiries about replacement parts, please contact your authorized ICOM dealer or the ICOM customer service center in your country. Keep your purchase receipt as proof of purchase for warranty claims.

Online Resources: For the latest firmware updates, software, and additional resources, visit the official ICOM website: www.icomjapan.com

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Related Documents - ID-52E

	<p>ICOM ID-52A PLUS / ID-52E PLUS Advanced Manual</p> <p>Comprehensive guide to advanced features and operations for the ICOM ID-52A PLUS and ID-52E PLUS VHF/UHF amateur radio transceivers, covering D-STAR, GPS, Bluetooth, and microSD card functions.</p>
	<p>ICOM RS-MS1A Android Application Instructions</p> <p>A comprehensive guide to the ICOM RS-MS1A Android application, detailing its system requirements, compatible ICOM transceivers, and key features for enhanced D-STAR communication, including image sharing, text messaging, and map integration.</p>

 <small>ICOM INSTRUCTION MANUAL DUAL BAND TRANSCEIVER ID-4100A ID-4100E ICOM INC.</small>	<p><u>Icom ID-4100A/E Advanced Manual: Comprehensive Guide</u></p> <p>Explore the advanced features of the Icom ID-4100A/E Dual Band Transceiver with this detailed manual. Learn about memory operations, D-STAR, GPS, microSD card usage, and Bluetooth connectivity.</p>
 <small>ICOM INSTRUCTION MANUAL DUAL BAND TRANSCEIVER ID-4100A ID-4100E ICOM INC.</small>	<p><u>Icom ID-4100A/E Dual Band Transceiver Basic Manual</u></p> <p>Get started with your Icom ID-4100A/E Dual Band Transceiver. This basic manual provides essential operating instructions, safety precautions, and panel descriptions for this advanced amateur radio equipment.</p>
 <small>ICOM GRUNDHANDBUCH VHF/UHF-ALLBEREICHSTRANSCEIVER IC-9700 ICOM INC.</small>	<p><u>Icom IC-9700 Grundhandbuch: VHF/UHF-Allbereichs-Transceiver Bedienung</u></p> <p>Das Grundhandbuch für den Icom IC-9700 VHF/UHF-Allbereichs-Transceiver. Entdecken Sie die fortschrittliche Technologie, das HF-Direktabtastsystem, das Echtzeit-Spektrumskop und weitere Funktionen dieses Amateurfunkgeräts von Icom.</p>
 <small>ICOM INSTRUCTION MANUAL VHF/UHF-DIGITAL-TRANSCEIVER IC-92AD ICOM INC.</small>	<p><u>Icom IC-92AD VHF/UHF Digital Transceiver Instruction Manual</u></p> <p>Comprehensive instruction manual for the Icom IC-92AD VHF/UHF Digital Transceiver, covering features, operation, precautions, and accessories.</p>