



INSTRUCTION MANUAL

VHF MOBILE TRANSCEIVER

IC-F5122D

UHF MOBILE TRANSCEIVER

IC-F6122D



Icom Inc.

Thank you for choosing this Icom product.
This product is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

IMPORTANT


READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the **IC-F5122D VHF MOBILE TRANSCEIVER** and **IC-F6122D UHF MOBILE TRANSCEIVER**.

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EXPLICIT DEFINITIONS

| WORD | DEFINITION |
|---|---|
|  WARNING! | Personal injury, fire hazard or electric shock may occur. |
| CAUTION | Equipment damage may occur. |
| NOTE | If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. |

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

PRECAUTIONS

⚠ WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠ WARNING! NEVER operate the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power source and antenna before a storm.

⚠ WARNING! NEVER connect the transceiver to a power source of more than 16 V DC or use reverse polarity. This could cause a fire or damage the transceiver.

⚠ WARNING! NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

⚠ WARNING! NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

CAUTION: NEVER expose the transceiver to rain, snow or any liquids.

USE the specified microphone only. Other microphones have different pin assignments and may damage the transceiver.

DO NOT use or place the transceiver in areas with temperatures below -25°C or above $+55^{\circ}\text{C}$, or in areas subject to direct sunlight, such as the dashboard.

DO NOT operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out when the transceiver transmits while the vehicle's engine is OFF.

DO NOT place the transceiver in excessively dusty environments.

DO NOT place the transceiver against walls. This will obstruct heat dissipation.

DO NOT use harsh solvents such as benzine or alcohol when cleaning, as they will damage the transceiver surfaces.

PLACE the radio in a secure place to avoid inadvertent use by unauthorized persons.

BE CAREFUL! The transceiver will become hot when operating continuously for long periods of time.

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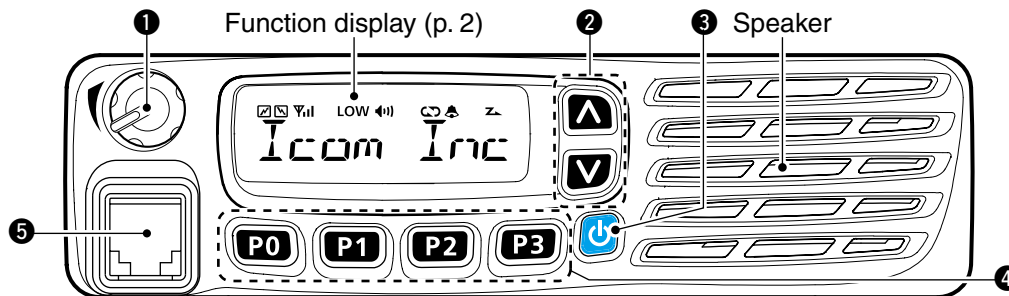
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■ Front panel



❶ AF VOLUME CONTROL KNOB [VOL]

Rotate the knob to adjust the audio output level.

- Minimum audio level is pre-programmed. (p. 12)

❷ UP/DOWN KEYS [CH Up]/[CH Down]

Push to select an operating channel, etc.

- * The desired function can be assigned by your dealer. (p. 3)

❸ POWER KEY [⏻]

Push to turn the power ON or OFF.

- The following optional functions are available at power ON:
 - Automatic scan start
 - Password prompt

❹ DEALER-PROGRAMMABLE KEYS

Required functions can be independently programmed by your dealer. (p. 3)

❺ MICROPHONE CONNECTOR

Connect the supplied or optional microphone.

- ⚡ **NEVER** connect non-specified microphones. The pin assignments may be different and may damage the transceiver.

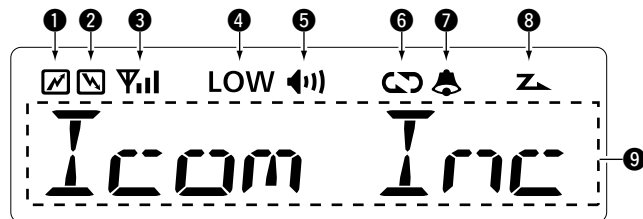
◇ Microphone

The supplied or optional microphone has a PTT switch and a hanger hook.

- The following functions are available when the microphone is ON or OFF hook (depending on the preprogramming):
 - Automatic scan starts when you put it ON hook.
 - Scan is cancelled when you take it OFF hook.
 - Scan is paused when you take it OFF hook.
 - Automatically selects the Priority channel when you take it OFF hook.
 - Sets to the 'Inaudible' mode (mute state) when you put it ON hook.
 - Sets to the 'Audible' mode (unmute state) when you take it OFF hook.

1 PANEL DESCRIPTION

■ Function display



❶ TRANSMIT ICON

Appears while transmitting a signal.

❷ BUSY ICON

Appears while the channel is busy (receiving).

❸ SIGNAL STRENGTH ICON

Shows the relative receive signal strength level.



Weak ⇐ Receive Signal level ⇒ Strong

❹ LOW POWER ICON

Appears when low output power is selected.

❺ AUDIBLE ICON

➡ Appears when the channel is in the 'Audible' (unmute) mode.

➡ Appears when a matching signal is received.

❻ ENCRYPTION ICON

Appears when the encryption function is activated while operating in the digital mode.

❼ BELL ICON

Appears/blinks when a matching 2/5-tone or Digital ID* is received, depending on the preprogramming.

❽ SCAN ICON

➡ Blinks during a scan.

➡ Appears when a scan channel is selected.

❾ ALPHANUMERIC DISPLAY

Displays an operating channel number, channel name, User Set mode contents, DTMF code, etc.

* Digital operation only

/// See the operating guide for details of MDC and Digital system operations. Ask your dealer for details.

■ Programmable function keys

The following functions can be assigned to [UP], [DOWN], [P0], [P1], [P2] and [P3] programmable function keys. Consult your Icom dealer or system operator for details concerning your transceivers programming.

CH UP AND DOWN KEYS

As described in the following topics, after pushing a programmed key, push [CH Up] or [CH Down] to select an option, setting, etc.

ZONE KEY

Push this key, then select the desired zone using [CH Up]/[CH Down].

/// **What is “zone”?**— Certain channels are grouped together and assigned to a zone, according to their intended use. For example, ‘Staff A’ and ‘Staff B’ are assigned to a “Business” zone, and ‘John’ and ‘Cindy’ are assigned to a “Private” zone.

SCAN START/STOPKEY

- ➡ Push to start and cancel scanning operation.
 - When a scan is started with the Power ON Scan or Automatic scan function, push this key to cancel it. The cancelled scan resumes after the pre-programmed time period.
- ➡ Hold down this key for 1 second to display the scan group, then push [CH Up] or [CH Down] to select the desired one.

SCAN ADD/DEL (TAG) KEY

- ➡ Push to add the channel to, or delete it from, the current scan group.
 1. Push to display the scan group, then push [CH Up] or [CH Down] to select the desired one.
 2. Push to add the channel to, or delete it from, the selected scan group.
 3. Hold down for 1 second to exit the scan list selection mode.
- ➡ While a scan is paused on a non-priority channel, push this key to delete the selected channel from the scan group.
 - /// Depending on the setting, the cleared channel is added to the scan group again after the scan is cancelled.

Count on us!

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Icom Inc.

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan