OICOM

INSTRUCTION MANUAL

VHF MOBILE TRANSCEIVER

IC-F5060 series

UHF MOBILE TRANSCEIVER

IC-F6060 series



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-F5061/IC-F5061D/IC-F5063 VHF MOBILE TRANS-CEIVERS, IC-F6061/IC-F6061D/IC-F6061D-L/IC-F6063/IC-F6063D/IC-F6067D UHF MOBILE TRANSCEIVERS.

See the operating guide for details of BIIS, MDC, LTR® and Digital system operations. Ask your dealer for details.

This instruction manual includes some functions which are usable only when they are preprogrammed by your dealer. Ask your dealer for details.

Icom, Icom Inc. and the Icom Iogo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries. LTR is a registered trademark of the E.F.Johnson Company.

All other products or brands are registered trademarks or trademarks of their respective holders.

EXPLICIT DEFENITIONS

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 souce and antenna before a storm.

△WARNING! NEVER connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This could 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.

CAUTION: CONFIRM that all connectors and jacks are dry and clean before attachment. Exposing them to dust or water will result in serious damage to the transceiver.

DO NOT place or leave the transceiver in areas with temperatures below -30°C (-22°F) or above +60°C (+140°F), 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 or leave the transceiver in excessively dusty environments.

DO NOT place the transceiver against walls. Otherwise heat dissipation will be obstructed.

DO NOT use harsh solvents such as Benzine or alcohol when cleaning, as they damage the transceiver's surfaces.

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

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

Place the transceiver in a secure place to avoid inadvertent use by unauthorized persons.

For U.S.A. only

CAUTION! Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

VOICE CODING TECHNOLOGY

The AMBE+2[™] voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #8,595,002, #8,359,197, #8,315,860, #8,200,497, #7,970,606, #6,912,495 B2.

FCC INFORMATION

• FOR CLASS A UNINTENTIONAL RADIATORS:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

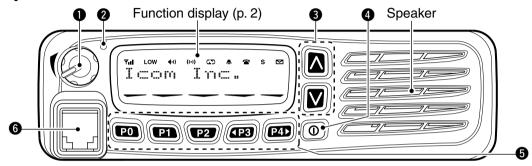
TABLE OF CONTENTS

	IPORTANT	
E)	XPLICIT DEFENITIONS	i
ΡI	RECAUTIONS	ii
V	OICE CODING TECHNOLOGY	iii
F	CC INFORMATION	iii
1	PANEL DESCRIPTION	1–7
	■ Front panel	1
	■ Function display	2
	■ Assignable function keys	
2	BASIC OPERATION	8–14
	■ Turning power ON	8
	■ Channel selection	8
	■ Call procedure	9
	■ Receiving and transmitting	
	■ User set mode	12
	■ Scrambler function	12
	■ Emergency transmission	12
	■ Stun function	
	■ Priority A channel selection	13
	■ Automatic Key Lock function	
	■ Power OFF Emergency function	

,	CONNECTION AND MAINTENANCE	15–18
	■ Rear panel connection	15
	■ Supplied Accessories	16
	■ Mounting the transceiver	17
	■ Antenna	17
	■ Fuse replacement	17
	■ Cleaning	17
	■ Options	18
	SAFETY TRAINING INFORMATION	19-22

PANEL DESCRIPTION

■ Front panel



1 AF VOLUME CONTROL KNOB [VOL]

Rotate the knob to adjust the desired audio output level.

• The minimum audio level is pre-programmed.

2 LED INDICATOR

- Lights green while receiving.

③ UP/DOWN KEYS [CH Up]/[CH Down]

Push to select an operating channel, and so on.

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

4 POWER SWITCH [①]

Hold down for 1 second to turn the power ON and OFF.

 Automatic scan start, Password prompt and Set mode access can be set to activate at power ON.

6 DEALER ASSIGNABLE KEYS

Various functions can be preset by your dealer. (p. 3)

6 MICROPHONE CONNECTOR

Connect the supplied or optional microphone.

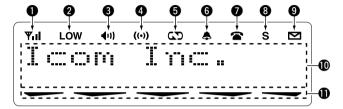
CAUTION: DO NOT connect non-specified microphones. The pin assignments may be different and the transceiver may be damaged.

♦ MICROPHONE

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

- The following functions can be set for operation when the microphone is on or off hook (depending on the setting):
 - Automatic scan starts when it is ON hook.
- Scan is cancelled when it is OFF hook.
- Scan is paused when it is off hook.
- Automatic priority channel selection is available when it is off hook.
- Set to 'Inaudible' (muted) mode when it is on hook.
- Set to 'Audible' (unmute) mode when it is off hook.

■ Function display



1 SIGNAL STRENGTH INDICATOR

Indicates the relative signal strength level as shown.

2 LOW POWER INDICATOR

Appears when low output power is selected.

6 AUDIBLE INDICATOR

- Appears when the channel is in the 'audible' (unmute) mode.
- → Appears when the specified 2/5-Tone/BIIS*¹/MDC*² code is received.

4 COMPANDER INDICATOR

Appears when the compander function is activated.

6 SCRAMBLER INDICATOR

Appears when the voice scrambler function is activated.

6 BELL INDICATOR

Appears or blinks when the specific 2/5-Tone/BIIS*1/MDC*2 code is received, depending on the presetting.

1 CALL CODE MEMORY INDICATOR

- → Appears when the call code memory is selected.
- ► Appears when a phone call is received.*3

3 SCROLL INDICATOR

Appears when an SDM that includes more than 12 characters is selected in the received message selection mode*1.

9 SDM INDICATOR

Appears when an SDM is received, or a transmit SDM is selected.*1

(1) ALPHANUMERIC DISPLAY

- ➡ Displays an operating channel number, channel name, Set mode contents, DTMF code, and so on.
- ➡ The display mode can be set to 1 line or 2 lines. Ask your dealer for details.
 - In this instruction manual, the LCD illustration is described using the 2 lines display mode.

1 ACTIVATED KEY INDICATOR

Appears above the key assigned as [Scan A Start/Stop], [Scan B Start/Stop], [Scan Add/Del(Tag)], [Lock], [Talk Around], [Surveillance] or [BIIS button]*1 keys while that key is activated.

- *1 BIIS operation only
- *2 MDC operation only
- *3 LTR® operation only

See the operating guide for details of BIIS, MDC, LTR® and Digital system operations. Ask your dealer for details.

1 PANEL DESCRIPTION

■ Assignable function keys

The following functions can be assigned to the **[UP]**, **[DOWN]**, **[P0]**, **[P1]**, **[P2]**, **[P3]** and **[P4]** assignable function keys. Consult your lcom dealer or system operator for details concerning your transceivers presetting.

INFORMATION:

Depending on the presetting, the preset function for [P0], [P1], [P2] or [P3] is assigned to [A], [B], [C] or [D] of the optional HM-152T, respectively. Ask your dealer for details.

CH UP AND DOWN KEYS

- ⇒ Push to select an operating channel.
- Push to select a transmit code channel after pushing [TX Code CH Select].
- Push to select a DTMF channel after pushing [DTMF Autodial].
- → Push to select a scan group after holding down [Scan A Start/Stop]/[Scan B Start/Stop] for 1 second.

ZONE KEY

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

What is "zone"?— Selected channels are assigned to a zone according to how they are to be used in a group. For example, 'Staff A' and 'Staff B' are assigned into a "Business" zone, and 'John' and 'Cindy' are assigned into a "Private" zone.

ZONE UP AND DOWN KEYS

Push to select an operating zone.

SCAN KEY

- → Push to start and cancel a scan.
 - When the Power ON Scan function is activated, push to pause the scan. The paused scan resumes after the specified time period has passed.
- ➡ Hold down this key for 1 second to display the scan list, then push [CH Up] or [CH Down] to select the desired list.



A6565D-1EX-9a Printed in Japan © 2006–2018 Icom Inc.

Printed on recycled paper with soy ink.

Icom Inc.

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