



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F5062D. You'll find the answers to all your questions on the ICOM IC-F5062D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ICOM IC-F5062D  
User guide ICOM IC-F5062D  
Operating instructions ICOM IC-F5062D  
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INSTRUCTION MANUAL

VHF dPMR MOBILE TRANSCEIVER  
**IC-F5062D**  
UHF dPMR MOBILE TRANSCEIVER  
**IC-F6062D**



Icom Inc.



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**Manual abstract:**

If disregarded, inconvenience only. @@@@ Ask your dealer for details. · See the operating guide for details of BIIS (Binary Interchange of Information and Signaling) and dPMR (Digital Private Mobile Radio) system operations. Ask your dealer for details. Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. All other products or brands are registered trademarks or trademarks of their respective holders. **PRECAUTIONS** **WARNING!** NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. **DO NOT** use or place the transceiver in areas with temperatures below 25°C or above +55°C, or in areas subject to direct sunlight, such as the dashboard.

**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. **CAUTION:** NEVER place the transceiver where nor **CAUTION:** NEVER allow children to touch the transceiver. between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

**DO NOT** operate the transceiver without running the vehicle's engine. **DO NOT** place the transceiver in excessively dusty environments. The vehicle's battery will quickly run out when the transceiver transmits while the vehicle's engine is OFF. **DO NOT** place the transceiver against walls. Otherwise heat dissipation will be obstructed.

**DO NOT** use harsh solvents such as benzene or alcohol when cleaning, as they damage the transceiver surfaces. Improper 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. **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. 1 2

3 4 5 6 7 8 9 10 11 12 13 14 15 16 **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. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166. **TABLE OF CONTENTS IMPORTANT** .....

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.. @@@@ **VOICE CODING TECHNOLOGY** ..

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..... @@@@2) r Speaker Front panel q w e Icom Inc. y t q **AF VOLUME CONTROL KNOB [VOL]** Rotate the knob to adjust the audio output level. · Minimum audio level is preprogrammed.

w **LED INDICATOR** Lights red while transmitting a signal. Lights green while receiving a signal. e **UP/DOWN KEYS [CH Up]/[CH Down]** Push to select an operating channel, etc. \*Required functions can be assigned by your dealer. (p. 3) y **MICROPHONE CONNECTOR** Connect the supplied or optional microphone. NEVER connect non-specified microphones. The pin assignments may be different and may damage the transceiver. D **MICROPHONE** The supplied microphone has a PTT switch and a hanger. · The following functions are available when you put the microphone ON hook, or take it OFF hook (depending on the pre-programmed settings): - Automatic scan starts when you put it ON hook.

- Scan is paused or cancelled when you take it OFF hook. - Automatically selects the Priority A channel when you take it OFF hook. - Sets to the 'Inaudible' (mute) mode when you put it ON hook. - Sets to the 'Audible' (unmute) mode when you take it OFF hook. r **POWER SWITCH [ ]** Hold down for 1 second to turn the power ON or OFF.

· Automatic scan start, Password prompt and User Set mode access are available at power ON. t **DEALER-PROGRAMMABLE KEYS** Required functions can be programmed independently by your dealer. (p. 3) 1 **PANEL DESCRIPTION** 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Function display q w e r t y u i o u **CALL CODE MEMORY ICON** Appears when the call code memory is selected. !0 !1 Icom Inc.

i **SCROLL ICON** Appears when an SDM (Short Data Message), including more than 12 characters, is selected in the received message selection mode\*1, 2. o **SDM ICON** Appears when an SDM is received, or an SDM is selected to transmit\*1, 2. !0 **ALPHANUMERIC DISPLAY** Displays an operating channel number, channel name, User Set mode contents, DTMF code, etc. Depending on the pre-programmed settings, characters are displayed in 1 line or 2 lines on the LCD. · In this instruction manual, the LCD illustration is described as having characters displayed in 2 lines. q **SIGNAL STRENGTH ICON** Shows relative receive signal strength level. Weak Receive Signal level Strong w **LOW POWER ICON** Appears when low output power is selected. e **AUDIBLE ICON** Appears when the channel is in the 'Audible' (unmute) mode. Appears when a matching signal is received. r **COMPANDER ICON** Appears when the Compander function is activated.

t **SCRAMBLER ICON** Appears when the Voice Scrambler function is activated. y **BELL ICON** Appears/blinks when a matching signal is received, depending on the pre-programmed settings. !1 **ACTIVATED KEY ICON** Appears above the key assigned as [Scan], [Scan Add/Del(Tag)], [Lock], [Talk Around], [Surveillance] and [BIIS Button]\*1, while that key is activated. \*1 BIIS operator only \*2 dPMR operator only See the operating guide for details of BIIS and dPMR system operations. Ask your dealer for details. 2 1 **PANEL DESCRIPTION** Programmable function keys The following functions can be assigned to [UP], [DOWN], [P0], [P1], [P2], [P3] and [P4] programmable function keys. Consult your Icom dealer or system operator for details concerning your transceiver's

programming. If the programmable function names are bracketed in the following explanations, the specific keys used to activate the function, depending on the pre-programmed settings. **INFORMATION:** Depending on the pre-programmed settings, the programmed 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.

**CHANNEL UP, CHANNEL DOWN** Push to select an operating channel. As described in the following topics, after pushing a programmed key, push [CH Up] or [CH Down] to select an option, setting, etc. **ZONE** Push this key, then push [CH Up] or [CH Down] to select the desired zone. 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.

**ZONE UP, ZONE DOWN** Push to select an operating zone. **SCAN** Push to start or cancel a scanning operation. When a scan is started by the Power ON Scan or Automatic Scan function, push this key to cancel the scan.



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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)** Push to add the selected channel to, or delete it from, the scan group. 1. Push to display the scan group, and then push [CH Up] or [CH Down] to select the desired one. 2. @ @ 3. @ - Push to mute the channel ( 'Inaudible' mode). @ @ When this function is turned ON, the audio level can be separately controlled from the transceiver by pushing [CH Up] or [CH Down]. This function can be used when external equipment, such as an audio amplifier, speaker, etc. is connected. Push this key, then hold down [PTT] and speak into the microphone.

**RX SPEAKER** Push to turn the RX Speaker function ON or OFF. When this function is turned ON, the received audio can be heard through an external speaker. This function is useful when you are away from the transceiver. The audio output level is linked to the transceiver's volume control. **LIGHT** Push to turn the backlight ON for about 5 seconds, when the Backlight function is set to "OFF" in the User Set mode. **LOCK** Hold down this key until "LOCK ON" is displayed to electronically lock all programmable keys except the following: [Mon], [Lght], [Lock], [Call] (incl. Call A and Call B), [Emergency], [Surveillance], [Lone Worker] and [OPT 1/2/3]. Normal settings. **SURVEILLANCE** Push to turn the Surveillance function ON or OFF. When this function is turned ON, the beep does not sound and the LCD backlight and the LED indicator do not light, even when a signal is received or a key is pushed.

**TX CODE ENTER** Push to enter the TX code edit mode (5Tone) (p. 11) or the ID code edit mode (BIIS, dPMR), and then set the desired TX code or ID code. Hold down for 1 second to erase the selected ID. See the operating guide for details of BIIS and dPMR system operations. Ask your dealer for details.

**6 1 PANEL DESCRIPTION POWER OFF EMERGENCY** While holding down this key, turn the power OFF to activate the Power OFF function. Push [CH Down] to select the desired DTMF channel. Push [DTMF Autodial] to transmit the DTMF code. Push [Call] to transmit. **11 BASIC OPERATION 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16** User Set mode The User Set mode can be accessed with the Power ON function. In this case, all items are selectable.

The User Set mode allows you to set seldom-changed settings and you can "customize" the transceiver operation to suit your preferences and operating style. **NOTE:** While in the User Set mode, [Up], [Down] and [P0] activate regardless of the assigned key functions. Entering the User Set mode: q While holding down [P1] and [P2], push [power ON]. e Push [P0] several times to select the appropriate item. Then, push [Up] or [Down] to set the desired value or setting. Available User Set mode items are Backlight, LCD Contrast, Beep, Beep Level, Ringer Level, SQL Level, AF Min Level, Mic Gain, Battery Voltage, Horn, Signal Moni, Lone Worker and System Info. j to turn the [P0] [Up]/[Down] Turn the power OFF first. You should hold down [P1] and [P2] until "SET MODE" appears on the display. r Hold down [ ] for 1 second to turn the power OFF, then turn the power ON again to exit the User Set mode. [P1] [P2] [ ] [ ] w Hold down [P0] for 1 second to enter the User Set mode.

[P0] The User Set mode is also available using a programmable key. Please refer to page 7 [User Set Mode] section for instructions regarding using the key assigned to the User Set Mode. [User Set Mode] allows for quick item selection. Set "Enable" for the often used items using the CS-F3160/F5060 (dPMR) cloning software. Ask your dealer for details. **12 2 BASIC OPERATION Emergency transmission** When [Emergency] is held down for the pre-programmed time period, the emergency call is transmitted once, or repeatedly\*, on the specified emergency channel. \* Depending on the pre-programmed settings. **D NOTES** Depending on the pre-programmed settings, the following functions are automatically activated. Auto TX function After an emergency call transmission, audio from the microphone is automatically transmitted for the pre-programmed time period. The HM-148G or HM-152 hand microphone is required.

A repeat emergency call is automatically transmitted until you turn the power OFF. Depending on the pre-programmed settings, receiving a matching 5-tone code cancels the transmission. When no emergency channel is specified, the call is transmitted on the operating channel. If you want to cancel the Emergency function, hold down [Emergency] for the pre-programmed time period again before transmitting the call. If your transceiver is programmed for Silent operation, you can transmit emergency calls without the beep sounding and the LED indicator lighting.

@ @ @ @ All versions have a built-in frequency inversion type scrambler. Moreover, the optional Rolling or Non-rolling type can be used. @ @ @ @ @ @ @ @ @ @ When a Stun command is received, the transceiver becomes unusable. In that case, receiving a Revve command or inputting the password\* (p. 8) is necessary to operate the transceiver again.

@ @ @ @ Ask your dealer for details. @ @ @ @ @ @ Depending on the pre-programmed settings, the Forced Narrow function is initially turned ON by your dealer. **Power Off Emergency function** When the transceiver has a key assigned to Power OFF Emergency, you can use the function. This function makes the transceiver transmit emergency calls, even though it appears to be powered OFF. To activate the Power OFF Emergency function, turn the power OFF while holding down [Power OFF Emergency]. When the function is activated, any key operation, the ON/OFF Hook and Lone Worker functions become invalid. The beep, LED indicator, display and speaker are turned OFF as well. On the other hand, the transceiver can transmit emergency calls according to the pre-programmed emergency settings. Depending on the pre-programmed settings, the Ambience Listening function can also be used. (dPMR operation only) To cancel the Power OFF Emergency function and restore the transceiver, turn the power ON.

**Automatic Key Lock function** When the transceiver has a key assigned to Lock, the Automatic Key Lock function can be used. When no operation occurs during the pre-programmed time period, the function automatically activates the Key Lock function. When the Key Lock function is ON, hold down [Lock] until "LOCK OFF" is displayed to turn it OFF. **15 CONNECTION AND MAINTENANCE Rear panel connection D** For mobile operation Antenna q **ANTENNA**

**CONNECTOR** Connects to the antenna. Ask your dealer about antenna selection and placement. w **EXTERNAL SPEAKER JACK** Connect a 48  $\phi$  external speaker. Microphone e **D-Sub 25-pin** Connect to external equipment. 3 **Optional speaker e q w R W A R N I N G ! N E V E R** remove the fuse-holders from the DC power cable. Red Black **NOTE:** Use the terminals as shown below for the cable connections. Crimp Solder r t y r **MICROPHONE HANGER** Connect the supplied microphone hanger to the vehicle's ground for the ON/OFF Hook functions.



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(See page 1) t IGNITION LEAD Connects to an ignition line. R Do not put a pressure to this lead. Binding to the DC power cable is recommended. y DC POWER RECEPTACLE Connects to a 12 V DC battery. Pay attention to polarities.

R WARNING! NEVER connect to a 24 V battery. This could damage the transceiver. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 12V Battery 16 3 CONNECTION AND MAINTENANCE Rear panel connection (Continued) D For base station operation To the antenna Microphone e q t w r y DC power supply 13.2 V to an AC outlet q ANTENNA CONNECTOR w IGNITION LEAD Optional speaker Fuses 10 A R WA R N I N G ! N E V E R remove the fuse-holders from the DC power cable. Red Black e D-Sub 25-pin Connect to external equipy DC POWER ment.

@@Pay crophone hanger to ground attention to polarities. for the ON/OFF Hook funcMake sure the ground tions. @@@@2 \* Used for optional unit installation. @@Contact your dealer about antennas and the best places to mount them. Cleaning If the transceiver becomes dusty or drty, wpe t clean with a soft and dry cloth. DO NOT use harsh solvents such as benzne or alcohol, as they damage the transceiver surfaces. Fuse replacement A fuse s nstalled n each fuse holder of the suppld DC power cable. If a fuse blows, or the transceiver stops functonng, track down the source of the problem, have t repaired, and replace the damaged fuse with a new rated one. Fuse ratng: 10 A USE a 10 A fuse of the same type only. 19 CONNECTION AND MAINTENANCE 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Options · RMK-3 separation kit + OPC-607/OPC-608/OPC-609 separation cable · UT-96R 5tone unit Provdes 5-tone decoder capabltes.

· UT-108R dtmf decoder unit Provdes DTMF decoder capabltes. · UT-109R/UT-110R scrambler units Non-rolling type (UT-109R)/Rollng type (UT-110R) voce scrambler unt provdes hgh communicaton security. Allows you to nstall the transceiver man unt separately from the front panel for operatng convenence. OPC-607 :3m OPC-608 :8m OPC-609 : 1.9 m · OPC-1132A dc power cable OPC-1132A : 3 m · SP-10/SP-22/SP-30 external speakers Input mpedance : 4 Max. nput power : 5 W (SP-10/SP-22), 40 W (SP-30) SP-10 : For all-round moble operaton. SP-22 : Compact and easy-to-nstall. SP-30 : Hgh nput power level. · HM-152/HM-152T/HM-148G/HM-148T hand microphones HM-152 : Hand mcrophone HM-152T : DTMF microphone HM-148G : Self groundng heavy duty microphone HM-148T : Self groundng heavy duty microphone with 10keypad The 10-keypad of ths mcrophone can be used for the DTMF code transmsson only. @@@@Some optons may not be avalable n some countres.

@@@Kind of equipment Type-designation (Variant name 136174 MHz 12.5 KHz/25 KHz 136174 MHz 12.5 KHz/20 KHz 136174 MHz 6.25 KHz Düsseldorf 15th Feb. 2008 Place and date of issue : VHF TRANSCEIVER Authorized representative name Version (where applicable): Y. Furukawa General Manager This compliance is based on conformity with the following harmonised standards, specifications or documents: i) ii) iii) iv) v) vi) vii) EN 60950-1 2001 EN 301 489-1 v1.4.1 (August 2002) EN 301 489-5 v1.3.1 (August 2002) EN 300 086-2 v1.1 (August 2002) EN 300 086-2 v1.1.1 (March 2001) EN 300 219-2 v1.1.1 (March 2001) EN 300 113-2 v1.3.1 (December 2003) EN 301 166-2 v1.1.1 (December 2001) Signature The IC-F5062D and IC-F6062D comply with the essential requirements of the European Rado and Telecommunicaton Termnal Drectve 1999/5/EC. This warning symbol ndcates that ths equipment operates n non-harmonised frequency bands and/or may be subject to lconsng condtons n the country of use. Be sure to check that you have the correct verson of ths rado or the correct programng of ths rado, to comply with natonal lconsng requirement.

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21 DOC 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 DECLARATION OF CONFORMITY We Icom Inc. @@@Kind of equipment Type-designation (Variant name 400470 MHz 12.5 KHz/25 KHz 400470 MHz 12.5 KHz/20 KHz 400470 MHz 6.25 KHz Düsseldorf 15th Feb. 2008 Place and date of issue : UHF TRANSCEIVER Authorized representative name Version (where applicable): Y. Furukawa General Manager This compliance is based on conformity with the following harmonised standards, specifications or documents: i) ii) iii) iv) v) vi) vii) EN 60950-1 2001 EN 301 489-1 v1.4.1 (August 2002) EN 301 489-5 v1.3.1 (August 2002) EN 300 086-2 v1.1.1 (March 2001) EN 300 219-2 v1.1.1 (March 2001) EN 300 113-2 v1.1 (August 2002) EN 301 166-2 v1.1.1 (December 2001) Signature 22 4 DOC · List of Country codes (ISO 3166-1) Country 1 2 3 4 5 6 7 8 9 10 11 12 13

14 15 16 17 Austra Belgum Bulgara Croata Czech Republic Cyprus Denmark Estonia Fnland France Germany Greece Hungary Iceland Ireland Italy Latvia Codes AT BE BG HR CZ CY DK EE FI FR DE GR HU IS IE IT LV 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 Country Lechtensten Lithuana Luxembourg Malta Netherlands Norway Poland Portugal Romana Slovaka Slovena Span Sweden Swtzerland Turkey Unted Kngdom Codes LI LT LU MT NL NO PL PT RO SK SI ES SE CH TR GB About e-marking: Detaled nstallaton notes for Icom moble transcevers to be fitted nto vehcles are available. Please contact your Icom dealer or dstrbutor.

23 MEMO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 MEMO MEMO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 AT FI IT PL GB RO < Intended Country of Use > BE FR LV PT IS TR CY DE LT SK LI HR CZ GR LU SI NO DK HU MT ES CH EE IE NL SE BG A-6841H-1EU Prnted n Japan © 2010 Icom Inc. Prnted on recycled paper wth soy nk. 1-1-32 Kammmnam, Hrano-ku, Osaka 547-0003, Japan .



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