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OPERATING GUIDE

**BIIS 1200**  
Compatible

**OPERATING GUIDE FOR  
IC-F5062D/F6062D  
BIIS 1200/dPMR OPERATION**

**Icom Inc.**



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**Manual abstract:**

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.....27 ii 1 PREPARATION Programmable function keys The following functions can be assigned to [UP], [DOWN], [P0], [P1], [P2], [P3] and [P4] programmable function keys. @@@@CLEAR After communication is finished, push this key to send a 'Disconnect' signal to terminate the connection. Depending on the pre-programmed settings, the Priority A channel is automatically selected after a 'Disconnect' signal terminates a connection. While in the message selection mode, push to return to the stand-by mode. Hold down for 1 second to toggle between the memory channel mode and the queue channel mode. While in the queue channel mode, push to toggle between the queue channel mode and the received message mode.

"" appears above the key assigned to the BIIS Button function, when it is activated. 1 PREPARATION D For BIIS 1200 and dPMR operations The following key functions are useful for both BIIS 1200 and dPMR operations. STATUS UP, STATUS DOWN Push to select a status message. When the automatic scroll function is activated, push to cancel it, if desired. When an SDM that includes more than 12 characters is displayed, push to manually scroll the message.

STATUS Push to enter the status message selection mode. · Push [CH Up] or [CH Down] to select a desired message. 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Additional key functions · For BIIS 1200 and dPMR operations The following key functions are recommended for both BIIS 1200 and dPMR operations, and function as described below. CALL On an MSK channel, push to transmit a BIIS call. On a digital channel, push to transmit a dPMR call.

Depending on the pre-programmed settings, pushing [PTT] makes a call in the same way as using [Call]. Moreover, when you keep holding down [PTT] after receiving an acknowledgement, you can start a conversation without pushing it again. TX CODE ENTER Push to enter the ID code edit mode, and then set a desired ID code. (pp. 7, 18) · For only BIIS 1200 operation The following key function is required for BIIS 1200 operation, and functions as described below.

MONITOR (AUDIBLE) After communication is finished, push this key to send a 'Clear down' signal to terminate the connection. Depending on the pre-programmed settings, the Priority A channel is automatically selected after a 'Clear down' signal terminates a connection. Hold down for 1 second to transmit the last selected status message. MESSAGE Push to enter the SDM selection mode. · Push [CH Up] or [CH Down] to select a desired SDM.

While in the SDM selection mode, hold down for 1 second to transmit the last selected SDM. While in the stand-by mode, hold down for 1 second to enter the message editing mode. (dPMR only) · Set a desired message using the optional HM-152T hand microphone (p.22). In BIIS 1200 operation, status messages and SDM are selectable in the same mode. 2 2 BIIS 1200 OPERATION Receiving a call D Receiving an Individual call q When an Individual call is received: · Rings sound. · "" appears and the mute is released. @@ · Your own ID (or name) and the calling station's ID (or name) blink. Appears Appears or blinks BIIS 1200 operation The Binary Interchange of Information and Signalling (BIIS) 1200 standard is the best choice to add a data service to an existing system. It enables digital communications, signalling and message exchanges with analog transceivers.

The BIIS system provides calling features such as Individual, Group, and Emergency calls, as well as enables receiving and transmitting status messages and SDM. NOTE: During BIIS 1200 operation, dPMR operation is disabled. BIIS display The following displays appear in BIIS 1200 operation. CONNECT : When an acknowledgement of an Individual or Group call is received. OK FAILED WAIT BUSY 3 : When an acknowledgement of a message (status message or SDM) is received.

: When no acknowledgement of a call is received. : While transmitting. : When the operating channel is busy. 0001 1234 Your own ID Calling station's ID w While holding down [PTT], speak into the microphone at your normal voice level. e Release [PTT] to receive.

r After the communication is finished, push [Moni (Audi)] to send a 'Clear down' signal to terminate the connection. · Either you or the calling station can send a 'Clear down' signal. · "" disappears, "CLR DOWN" appears for approximately 2 seconds, and the transceiver automatically returns to the stand-by mode. CLR DOWN : When a connection is terminated. BIIS 1200 OPERATION D Receiving a Group call q When a Group call is received: · Rings sound. · "" appears and the mute is released. @@ · The group ID (or name) and the calling station's ID (or name) blink. Appears Appears or blinks 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Receiving an Emergency call q When an Emergency call is received: · Rings sound. · "Emergency" and the calling station's ID (or name) blink. · The transceiver automatically transmits an acknowledgement to the calling station.

Emergency 1111 Calling station's ID 4001 1234 Group ID Calling station's ID w Push [Moni (Audi)] to return to the stand-by mode. w While holding down [PTT], speak into the microphone at your normal voice level. NOTE: Only one station is allowed to speak at the same time. e Release [PTT] to receive. r After the communication is finished, push [Moni (Audi)] to send a 'Clear down' signal to terminate the connection. · Either station can send a 'Clear down' signal.

· "" disappears, "CLR DOWN" appears for approximately 2 seconds, and the transceiver automatically returns to the stand-by mode. 4 2 BIIS 1200 OPERATION D Receiving an SDM q When an SDM is received: · Rings sound. · "" appears. · The calling station's ID (or name) and the SDM blink. Appears The received SDM D Receiving a status message q When a status message is received: · Rings sound. @@The received status message RX Status 01 1234 Calling station's ID SDM 8 1234 Calling station's ID w Push [Moni (Audi)] to return to the stand-by mode.

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NOTE: When the display mode is 1 line If the 'Scroll Timer' item is set to "OFF," even when a status message is received, only the calling station's ID (or name) is displayed (no message is alternately displayed). In that case, push [Status Down] to display the status message manually. NOTE: When the SDM includes more than 12 characters, it automatically scrolls.

· Push [Status Up] or [Status Down] to stop scrolling, or manually scroll the message. RETURN TO OFFICE 1 2 3 4 Scrolls w Push [Moni (Audi)] to return to the stand-by mode. 5 BUIS 1200 OPERATION D Displaying a received call record -- Queue channel mode The transceiver memorizes up to 3 calling station's IDs. When the 4th call is received, the oldest call record will be removed, and the last received call will be added. When the transceiver is turned OFF, all the records are deleted.

· The screen display varies as shown below. 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Displaying a received message The transceiver memorizes up to 6 received messages. When the 7th message is received, the oldest message will be removed, and the last received message will be added. When the transceiver is turned OFF, all the messages are deleted. @@@@@"The transceiver has 8 memories to store messages. @@@@@" blinks. e Push the appropriate digit kEnable." · By the Automatic Position Transmission function. @@@@@"This function is useful when you are away from the transceiver. Ask your dealer or system operator for connection and setting details.

Printer connection When a printer is connected to the D-sub 25-pin connector of the transceiver, received SDM and the calling station's ID can be printed out, depending on the pre-programmed settings. Ask your dealer or system operator for connection and setting details. 12 3 dPMR OPERATION Receiving a call D Receiving an Individual call q When an Individual call is received: · Rings sound. · " " appears and the mute is released. @ · The calling station's ID (or name) blinks. Appears Appears or blinks dPMR operation The IC-F5062D and IC-F6062D provide digital Private Mobile Radio (dPMR) operation that meets the 6.25 kHz bandwidth requirements for narrow band operation. @@@@@" : When no acknowledgement of a call is received. : While transmitting. @@@@e Release [PTT] to receive.

@@@@" " appears and the mute is released. @@@@@"NOTE: Only one station is allowed to speak at the same time. e Release [PTT] to receive. @@@@@" When a Stun command is received, the transceiver is disabled\*1. @@@@@" " appears.

@@@@"In that case, re-programming the transceiver is necessary to operate the transceiver again. D Receiving a Status Polling call If a Status Polling call is received, the transceiver will automatically transmit its current status. 15 dPMR OPERATION D Receiving an Ambience Listening call If an Individual call with an Ambience Listening command is received from a specified station, the transceiver will automatically transmit its microphone audio. · The HM-148G or HM-152 HAND MICROPHONE is required. 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Talk back function The Talk Back function allows you to select the same call mode (Analog or Digital) as the received call.

If the received call is a digital signal, the Talk Back function is activated for Voice and Emergency calls, and depending on the pre-programmed settings, also for status messages and SDM. When the channel type is "Mixed-Digital" After receiving an analog signal, "ANALOG" is displayed during the Talk Back timer period, depending on the pre-programmed settings. When [PTT] is pushed before or during the Talk Back timer period, you can transmit an analog signal.

When the channel type is "Mixed-Analog," "Mixed-Digital" or "Digital" After receiving a digital signal, the calling station's ID or the Talkgroup ID is displayed until receiving a 'Disconnect' signal, depending on the pre-programmed settings. Even on a "Mixed-Analog" channel, when [PTT] is pushed before receiving a 'Disconnect' signal, the Talk Back function allows the transceiver to transmit a digital signal to the ID. NOTE: When this function is not activated, the transceiver always transmits analog signals on "Mixed-Analog" channels, and digital signals on "Mixed-Digital" channels. · On these channels, the transceiver can receive both analog and digital signals, regardless of the Talk Back function. NOTE: If the transceiver receives an Ambience Listening command from a station other than the specified one, the call will be ignored, and the transceiver will not transmit its microphone audio. D Receiving an Emergency call q When an Emergency call is received: · Rings sound. · "Emergency" and the channel number\* are alternately displayed.

\* Depending on the pre-programmed settings, the calling station's ID (or name) can be displayed. · The transceiver automatically transmits an acknowledgement to the calling station. Emergency 001 ch-01 w Push [Clear] to return to the stand-by mode. 16 3 dPMR OPERATION D Displaying a received call log entry Depending on the pre-programmed setting, the transceiver stores up to 10 call log entries. Individual Voice, Status and SDM call log entries are stored. When an 11th call is received, the oldest call log entry will be removed, and the last received call will be added. When the transceiver is turned OFF, all the log entries are deleted. q Push [dPMR Button] twice to enter the application selection mode. · "STATUS" appears. NOTE: Depending on the pre-programmed settings, pushing [Call] while displaying a call log entry makes a Voice call using the entry's ID.

However, if a Status or SDM call log entry is selected, the transceiver makes a Voice call using the last selected Individual or Talkgroup ID. w Push [CH Up] or [CH Down] to select "CALL LOG." e Push [dPMR Button] again to display a call log entry. When the transceiver has a call log entry VOICE 0000001 When the transceiver has no call log entries NO LOG r Push [CH Up] or [CH Down] to display a desired entry. · If a Status or SDM call log entry is selected, not only the calling station's ID but also the status message or message are displayed.

t Push [dPMR Button] again to return to the stand-by mode. 17 dPMR OPERATION 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Transmitting a call dPMR operation allows you to make a call to a specific station (Individual call) or to a particular group (Talkgroup call). Other digital mode transceivers on the channel will not receive a call that does not match their Individual or Talkgroup ID and/or colour code. · When no acknowledgement is received After making a call, the transceiver waits for an acknowledgement for the pre-programmed time period.



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If no acknowledgement is received, the transceiver automatically repeats the call 4 times (default).

However, when no acknowledgement is received after each of the calls, an error beep sounds and "FAILED" is displayed. @@@@- Select an SDM list number while in the SDM selection mode. - Edit an SDM while displaying it. (p. @@@@e Push [CH UP] or [CH DOWN] to select a desired number. r Push [TX Code Enter] to set. The digit to the right will automatically blink. t Repeat step e and r to input all allowable digits. @@@@e Push [CH Up] or [CH Down] to select a desired Individual ID.

e Push [dPMR Button] again to enter the application selection mode. - "STATUS" is displayed. r After "CONNECT" is displayed, hold down [PTT] and speak into the microphone at your normal voice level. Release [PTT] to receive. t After the communication is finished, push [Clear] to send a 'Disconnect' signal to terminate the connection. - Either station can send a 'Disconnect' signal. r Push [CH Up] or [CH Down] to select "STAT POL." t Push [Call] to transmit the status polling call to the selected station. - "WAIT" is displayed while transmitting. - When a status message is received, the message and the station's ID blink.

- "FAILED" is displayed when no acknowledgment is received. After a specified time period, the transceiver will return to the stand-by mode. y Push [Clear] to return to the stand-by mode. 19 dPMR OPERATION D Transmitting a status message You can send a pre-programmed status message to an individual station or to group stations. There are 32 status messages that can be sent.

q Push [dPMR Button] to enter the ID selection mode. - The pre-programmed ID is displayed. 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 y Push [Call] to transmit the status message to the selected station or talkgroup. - "WAIT" is displayed while transmitting. @@ - "FAILED" is displayed when no acknowledgment is received.

w Push [CH Up] or [CH Down] to select a desired Individual ID or Talkgroup ID. e Push [dPMR Button] again to enter the application selection mode. - "STATUS" is displayed. u After a specified time period, the transceiver will return to the stand-by mode. r Push [dPMR Button] again to enter the status message selection mode. - The pre-programmed status message is displayed. t Push [CH Up] or [CH Down] to select a desired status message. STATUS 01 TX Status 01 A status message is displayed. 20 3 dPMR OPERATION D Transmitting an SDM You can send a pre-programmed SDM to an individual station or to group stations. The transceiver has 10 memories to store messages.

q Push [dPMR Button] to enter the ID selection mode. - The pre-programmed ID is displayed. u Push [Call] to transmit the SDM to the selected station or talkgroup. - "WAIT" is displayed while transmitting. @@ - "FAILED" is displayed when no acknowledgment is received. w Push [CH Up] or [CH Down] to select a desired Individual ID or Talkgroup ID. e Push [dPMR Button] again to enter the application selection mode. - "STATUS" is displayed. i After a specified time period, the transceiver will return to the stand-by mode. r Push [CH Up] or [CH Down] to select "MESSAGE."

t Push [dPMR Button] again to enter the SDM selection mode. - " " appears. - The pre-programmed SDM is displayed. y Push [CH Up] or [CH Down] to select a desired SDM. - You can edit or change the contents of the SDM.

See the next page for details. Appears MESSAGE Message 01 1 An SDM is displayed. 21 dPMR OPERATION D Direct message input While displaying an SDM, you can edit or change the message using the optional HM-152T hand microphone. q Push [dPMR Button] twice to enter the application selection mode. - "STATUS" is displayed.

3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 - Usable characters Key [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] 0 1 2 3 4 5 6 7 8 9 Characters ! ? ' " , ; : \_ ( ) < > [ ] (space) # \* / + - = / & % \$ @ ^ ABCabc DEFdef GHIghi JKLjkl MNomno PQRSpqrs TUVtuv WXYZwxyz. w Push [CH Up] or [CH Down] to select "MESSAGE." e Push [dPMR Button] again to enter the SDM selection mode. - The pre-programmed message is displayed. r Push [CH Up] or [CH Down] to select a desired SDM. t Push [M] or [#] to enter the message editing mode. - The first character blinks when [#] is pushed, the last character blinks when [M] is pushed. y Push the appropriate digit key, [0] to [9], to enter a desired character. - See the table at right for the usable characters. - Push [CH Up] to enter a space, push [CH Down] to delete the selected character, and hold down [#] for 1 second to delete all the characters. USING [MESSAGE]: If the transceiver has a key assigned to the Message function, you can quickly enter the message editing mode.

q While in the stand-by mode, hold down [Message] for 1 second to enter the message editing mode. - A cursor blinks for the first character. u Push [#] to move the cursor to the right, push [M] to move the cursor to the left. i Repeat steps y and u to enter a message of up to 100 characters. o Hold down [dPMR Button] for 1 second to write the new programmed message into the SDM memory. - Push [dPMR Button] momentarily to cancel editing and return to the original message display. w Follow the step y to i in the left column. e Push [Call] to transmit the SDM to the last selected ID. @@@@e Push [CH Up] or [CH Down] to exit the emergency mode, hold down [Emergency] for the pre-programmed period before the end of the count-down time period. r After the Emergency call cycles have ended, the transceiver automatically returns to the stand-by mode.

- To exit the emergency mode manually, turn OFF the power, and turn ON it again. w When the time period ends, the transceiver automatically starts an Emergency call cycle, once or repeatedly, depending on the pre-programmed repeat cycle setting. e In an Emergency call cycle, the transceiver automatically transmits a digital signal to inform the dispatcher that the user is in an emergency situation. - "WAIT" appears while transmitting. - When an acknowledgement is received, "CONNECT" is displayed.

You can communicate with the dispatcher by pushing [PTT], until a 'Disconnect' signal terminates the connection. - When no acknowledgement is received, an error beep sounds and "FAILED" is displayed. NOTE: Depending on the pre-programmed setting, the transceiver does not transmit the digital signal in the repeated cycles. 23 dPMR OPERATION 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Transmitting a command The following Individual calls allow you to send special commands.



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*These calls will function if you are designated as a specific station.*

*Ask your dealer for details. D Transmitting a Stun Call A Stun call allows you to send a command that will stun the target station. q Push [dPMR Button] to enter the ID selection mode. · The pre-programmed ID is displayed. D Transmitting an Ambience Listening Call An Ambience Listening call allows you to send a command that will require the target station to transmit its microphone audio. @@@@e · "FAILED" is displayed when no acknowledgment is received. r Push [CH Up] or [CH Down] to select "LISTENING." t Push [Call] to transmit an Ambience Listening call to the selected station. · "WAIT" is displayed while transmitting. · "OK" is displayed when an acknowledgement is received, then the called station's microphone audio can be heard for the preprogrammed time period.*

*· "FAILED" is displayed when no acknowledgment is received. y After a specified time period, the transceiver will return to the stand-by mode. y After a specified time period, the transceiver will return to the stand-by mode. 24 3 dPMR OPERATION D Transmitting a Revive Call A Revive call allows you to send a command that will revive the (stunned) station. q Push [dPMR Button] to enter the ID selection mode. · The pre-programmed ID is displayed. D Transmitting a Kill Call A Kill call allows you to send a command that will disable the target station. @@@@e Push [dPMR Button] again to enter the application selection mode. · "STATUS" is displayed. r Push [CH Up] or [CH Down] to select "KILL." t Push [Call] to transmit a Kill call to the selected station. · "WAIT" is displayed while transmitting. @@ · "FAILED" is displayed when no acknowledgment is received. r Push [CH Up] or [CH Down] to select "REVIVE." t Push [Call] to transmit a Revive call to the selected station.*

*· "WAIT" is displayed while transmitting. @@ · "FAILED" is displayed when no acknowledgment is received. y After a specified time period, the transceiver will return to the stand-by mode. y After a specified time period, the transceiver will return to the stand-by mode. 25 dPMR OPERATION 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Position data transmission When a GPS receiver is connected to the transceiver, the position data (longitude and latitude) can be automatically transmitted.*

*Ask your dealer or system operator for connection details. The position data is transmitted: · When the GPS Request status message is received. - Set a status message as the GPS Request one in the 'GPS Request Status' item. Status message transmission Status messages can be automatically transmitted: · When the transceiver is turned ON or OFF - Select a status message to be transmitted in the 'Power ON Status' or 'Power OFF Status' item, respectively. - Select a target station ID in the 'Power Status ID' item. · At the end of a Voice call - Select a Status Message to be transmitted in the 'Send with Voice Call' item. · At the end of a Voice call. - Set the 'Send with Voice Call' item to 'Enable.' · After sending a status message. - Set the 'Send with Status Call' item to 'Enable.'*

*" NOTE: Configure the status message transmission settings using the CS-F3160/F5060 (dPMR) cloning software. Ask your dealer for details. · After sending an SDM. - Set the 'Send with SDM Call' item to 'Enable.'" · After making an Emergency call. - Set the 'Send with Emergency' item to 'Enable.'" · By the Automatic Position Transmission function. @@Ask your dealer for details. 26 3 dPMR OPERATION Horn output When a horn is connected to the D-Sub 25-pin connector of the transceiver, the Automatic Honking function is usable, depending on the pre-programmed settings. @@This function is useful when you are away from the transceiver.*

*Ask your dealer or system operator for connection and setting details. Printer connection When a printer is connected to the D-sub 25-pin connector of the transceiver, received SDM and the calling station's ID can be printed out, depending on the pre-programmed settings. Ask your dealer or system operator for connection and setting details. 27 MEMO A-6841-2EU © 2010 Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan .*



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