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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-M411. You'll find the answers to all your questions on the ICOM IC-M411 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-M411
User guide ICOM IC-M411
Operating instructions ICOM IC-M411
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Instruction manual ICOM IC-M411

INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER
IC-M411



Icom Inc.



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....53 v **PRECAUTIONS** **RWARNING!** NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. **BE CAREFUL!**

The transceiver rear panel will become hot when operating continuously for long periods. Place the transceiver in a secure place to avoid inadvertent use by children. NEVER connect the transceiver to a power source of more than 16 V DC or use reverse polarity. This will ruin the transceiver.

NEVER cut the DC power cable between the DC plug at the back of the transceiver and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged. **BE CAREFUL!** The transceiver employs waterproof construction, which corresponds to IPX7 of the international standard IEC 60529 (2001). However, once the transceiver has been dropped, waterproofing cannot be guaranteed due to the fact that the case may be cracked, or the waterproof seal damaged, etc. Icom optional equipment is designed for optimal performance when used with this transceiver.

We are not responsible for the transceiver being damaged or any accident caused when using non-Icom optional equipment. NEVER place the transceiver where normal operation of the vessel may be hindered or where it could cause bodily injury. **KEEP** the transceiver at least 1 m away from the ship's navigation compass.

DO NOT use or place the transceiver in areas with temperatures below 20°C or above +60°C or, in areas subject to direct sunlight, such as the dashboard.

AVOID the use of chemical agents such as benzene or alcohol when cleaning, as they may damage the transceiver surfaces.

If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth.



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v OPERATING RULES D PRIORITIES · Read all rules and regulations pertaining to porters and keep an up-to-date copy handy. Safety and Distress calls take priority over all others. · You must monitor Channel 16 when you are not operating on another channel. · False or fraudulent distress signals are prohibited and punishable by law. 1 1 (2) OPERATOR'S LICENSE A Restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes. The Restricted Radiotelephone Operator Permit must be posted or kept with the operator. Only a licensed radio operator may operate a transceiver. However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entry. (p.

8) "DSC" appears when DSC channel group is in use; "ATIS" appears when ATIS channel group is in use. (p. 6) "SCAN 16" appears during Priority scan; "SCAN" appears during Normal scan. (p. 11) "DW 16" appears during Dualwatch; "TW 16" appears during Tr-watch. (p. 12) In Set mode, indicates and scrolls the selected item. (p. 39) w TAG CHANNEL INDICATOR (p. 11) Appears when a TAG channel is selected.

e DUPLEX INDICATOR (p. 6) Appears when a duplex channel is selected. r LOW BATTERY INDICATOR Appears when the battery voltage drops to approximately 10 V DC or below. 4 y GPS INDICATOR Appears while valid position data is received.

Blinks when invalid position data is received. Disappears when no GPS receiver is connected. u CHANNEL NUMBER READOUT Indicates the selected operating channel number. · &qu channel group. (p.

6) r Push [Y] or [Z] to select the desired channel. (pgs. 5, 6, 50) · When receiving a signal, " " appears and audio is emitted from the speaker. · Further adjustment of [VOL] may be necessary. IMPORTANT: To maximize the readability of your transmitted signal, pause a few seconds after pushing [PTT], hold the microphone 5 to 10 cm from your mouth and speak at a normal voice level. q y M 3 er w r t i t u sh [HI/LO] on the microphone to select the output P power if necessary. · "LOW" appears when low power is selected. · Choose low power for short range communications, choose high power for longer distance communications. · Some channels are for low power only.

M: Microphone y Push and hold [PTT] to transmit, then speak into the microphone. · " " appears. · Channel 70 cannot be used for transmission other than DSC. 4 NOTE for TOT (Time-out Timer) function The TOT function prohibits continuous transmission over a preset time period after the transmission starts. A beep sounds 10 seconds before the TOT function activates, to indicate the transmission will be shut down and "TOT" appears on the channel comment indicator. Transmission is not possible for 10 seconds after this transmission shut down. u Release [PTT] to receive. 7 3 BASIC OPERATION n Call channel programming You can program the call channel with your most often-used channels in each channel group for quick recall.

q Push both [Y] and [Z] on the transceiver one or more times to select the desired channel group (INT, USA, ATIS or DSC) to be programmed. w Push and hold [16-C] for 1 second to select the call channel of the selected channel group. · "CALL" and call channel number appear. n Channel comments Memory channels can be labeled with alphanumeric comments of up to 10 characters each for easy channel recognition.

Comment is indicated at the channel comment indicator for about 10 seconds after the channel selection, and the comment, more than 7 characters long, automatically scrolls. Capital letters, small letters (except f, j, k, p, s, v, x, z), 0 to 9, some symbols (= M + . /) and space can be used. q Select the desired channel.

· Cancel Dualwatch, Tr-watch or Scan in advance. e Push and hold [16-C] again for 3 seconds (until a long beep changes to 2 short beeps) to enter the call channel programming condition. · Channel number starts blinking. w While pushing [CH-DUAL], push [16-C] to edit the channel comment. · A cursor and the first character start blinking alternately. r Push [Y] or [Z] to select the desired channel. t Push [16-C] to program the displayed channel as the call channel. · Push [CLR] to cancel. · The channel number stops blinking.

e Select the desired character by pushing [Y] or [Z]. · Push [CH-DUAL] or [16-C] to move the cursor forward or backward, respectively. r Repeat step e to input all characters. t Push [ENT] to input and set the comment. y Repeat steps q to t to program other channel comments, if desired. · Push [CLR] to cancel and exit the condition. · The cursor and the character stop blinking. 8 BASIC OPERATION 3 n Microphone Lock function The Microphone Lock function electrically locks [Y]/[Z] on the supplied microphone. This prevents accidental channel changes and function access. While pushing [HI/LO] on the microphone, turn power

ON to toggle the Microphone Lock function ON and OFF.

n AquaQuake water draining function The IC-M411 uses a technology to clear water away from the speaker grill: AquaQuake. AquaQuake helps drain water away from the speaker housing (water that might otherwise muffle the sound coming from the speaker). The IC-M411 emits a vibrating noise when this function is being used. While pushing and holding both [Y] and [Z] on the transceiver, turn power ON. 3 [Y]/[Z] [HI/LO] · A low beep tone sounds while [Y] and [Z] keys are pushed and held to drain water, regardless of [VOL] control setting.

· The transceiver never accepts a key operation while the Aqua-Quake function is activated. n Display backlight The function display and keys can be backlit for better visibility under low light conditions. Display backlight is also adjustable via the Set mode. (p. 41) While pushing [SCAN-TAG], push [Y] or [Z] to adjust the brightness of the LCD and key backlight.

· The backlight is adjustable in 4 levels and OFF. 9 4 SCAN OPERATION n Scan types Scanning is an efficient way to locate signals quickly over a wide frequency range. The transceiver has Priority scan and Normal scan. Set the TAG channels (scanned channel) before scanning. Clear the TAG channels which inconveniently stop scanning, such as those for digital communication use. (Refer to right page for details.) Choose Priority or Normal scan in Set mode. (p. 40) PRIORITY SCAN CH 01 CH 02 NORMAL SCAN CH 01 CH 02 CH 06 CH 16 CH 03 CH 06 CH 03 CH 05 CH 04 CH 05 CH 04 Priority scan searches through all TAG channels in sequence while monitoring Channel 16. When a signal is detected on Channel 16, scan pauses until the signal disappears; when a signal is detected on a channel other than Channel 16, scan becomes Dualwatch until the signal disappears.

Normal scan, like Priority scan, searches through all TAG channels in sequence. However, unlike Priority scan, Channel 16 is not checked unless Channel 16 is set as a TAG channel.

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10 SCAN OPERATION 4 n Setting TAG channels For more efficient scanning, add the desired channels as TAG channels or clear the TAG for unwanted channels. Channels that are not tagged will be skipped during scanning. TAG channels can be assigned to each channel group (INT, USA, ATIS or DSC) independently. q Push both [Y] and [Z] to select the desired channel group, f desired. w Select the desired channel to be set as a TAG channel. e Push and hold [SCAN:TAG] for 1 sec. to set the displayed channel as a TAG channel. " " appears in the display.

" disappears. n Starting a scan Set scan type (Priority or Normal scan) and scan resume timer n advance, using Set mode. (p. 40) q Push both [Y] and [Z] to select the desired channel group, f desired. w TAG channels as described at left.

Set e Make sure the squelch is closed to start a scan. r Push [SCAN:TAG] to start Priority or Normal scan. "SCAN" blinks at the channel comment indicator during scanning. (During Priority scan, "16" appears beside the blinking "SCAN" indicator.) A beep tone sounds and "16" blinks at the channel comment indicator when a signal is received on Channel 16 during Priority scan.

When a signal is detected, scan pauses until the signal disappears or resumes after pausing 5 sec. according to Set mode setting. (Channel 16 is still monitored during Priority scan.) Push [Y] or [Z] to check the scanning TAG channels, to change the scanning direction or resume the scan manually. 4 r cancel the TAG channel setting, repeat step e. To Clearing (or setting) all tagged channels While pushing [HI/LO] on the microphone, push and hold [SCAN:TAG] for 3 sec. (until a long beep changes to 2 short beeps) to clear all TAG channels in the channel group. Repeat above procedure to set all TAG channels. t stop the scan, repeat step r. To Blinks Blinks [Example]: Starting a Normal scan.

Push Scan starts. When a signal is Appears received. 11 5 DUALWATCH/TRI-WATCH n Operation q Select Dualwatch or Tr-watch n Set mode. (p. 40) w Push [Y] or [Z] to select the desired channel. e Push and hold [CH-DUAL] for 1 sec. to start Dualwatch or Tr-watch. "DW" blinks during Dualwatch; "TW" blinks during Tr-watch. A beep tone sounds and "16" blinks when a signal is received on Channel 16. n Description Dualwatch monitors Channel 16 while you are receiving on another channel; Tr-watch monitors Channel 16 and the call channel while receiving another channel.

Dualwatch/Trwatch is convenient for monitoring Channel 16 when you are operating on another channel. @@@@w After the display appears, release [MENU]. e Push [MENU] to enter the DSC menu. @@@@P i ush [ENT] to set the code.

Returns to the normal operation. Push [CLR] to cancel and exit the condition. If the different code is input, "INCORRECT" appears. @@ ush [MENU] for 1 sec. to display the 9-dgt MMSI (DSC P self ID) code.

The MMSI code is displayed and scrolls at the channel comment indicator. When no MMSI code is programmed, "NO MMSI" appears and warning alarm sounds. t Input the specified MMSI code by pushing [Y] or [Z]. Push [CH-DUAL] or [16-C] to move the cursor forward or backward, respectively. Scrolls y After inputting the 9-dgt MMSI code, push [ENT]. "CONFIRMATION" scrolls at the channel comment indicator. Scrolls 13 6 DSC OPERATION n DSC address ID A total of 100 DSC address IDs (9-dgt) can be programmed and named with up to 10 characters. t Push [Y] or [Z] to set up to a 10-character ID name. Push [CH-DUAL] or [16-C] to move the cursor forward or backward, respectively. Push [CLR] to cancel and exit the condition.

D Programming Address ID q Push [MENU] to enter the DSC menu. @@@@w Push [CLR] to cancel and exit the condition. @@@@w They are included automatically when a GPS receiver (NMEA0183 ver. 2.0 or 3.01) is connected. q Push [MENU] to enter the DSC menu. @@@@w Set your latitude data using [s] or [t]. @@@@w Manually programmed position data will be held for 23.5 hours only.

@@@w A NMEA0183 ver. @@ Ask your dealer about suitable GPS receivers. @@@@w While lifting up the key cover, push and hold [DISTRESS] for 3 sec. @@@w While pushing and holding [DISTRESS], the key backlighting is blinking. Scrolls When the connected GPS receiver is compatible with several sentence formatters, the order of input precedence is 'RMC,' 'GGA,' 'GNS' and 'GLL.'

"GPS" blinks when the GPS data is invalid. Scrolls e After transmitting the Distress call, the transceiver waits for an acknowledgment call on Ch16. The Distress call is automatically transmitted every 3.5 to 4.5 minutes.

"DSC REPEAT" scrolls at the channel comment indicator. 18 DSC OPERATION 6 D Regular call Scrolls The nature of the distress call should be included in the distress call. q Push [MENU] to enter the DSC menu. w Push [s] or [t] to select "DISTRESS," and push [ENT]. r After receiving the acknowledgment, reply using the microphone. "RCV DISTRESS ACK" scrolls at the channel comment indicator. 6 Scrolls e Push [s] or [t] to select the nature of the distress, push [ENT]. 'UNDESIGNATED,' 'EXPLOSION,' 'FLOODING,' 'COLLISION,' 'GROUNDING,' 'CAPSIZING,' 'SINKING,' 'ADRIFT (Disable drift),' 'ABANDONING (Abandoning ship),' 'PIRACY (Piracy attack),' and 'MOB (Man overboard)' are available. The selected nature of the distress is stored for 10 minutes. distress alert contains; A Kinds of distress: Undesignated distress Position data: Latest GPS or manual input position data held for 23.

5 hrs. or until the power is turned OFF. The Distress call is repeated every 3.5-4.5 mn., until receiving an acknowledgement. ('Call repeat' mode) "RE-TRANSMISSION" is displayed while transmission. Scrolls Push [DISTRESS] to transmit a renewed Distress call, f desired. ush [CLR] to transmit the 'Cancel ACK' call to cancel the 'Call repeat' mode. "CANCELED" is displayed.

When a GPS receiver (NMEA0183 ver. 2.0 or 3.01) is connected, next steps r, t (Current position/time programming) do not appear. Go to step y. Continue to the next page 19 6 DSC OPERATION y Push [DISTRESS] for 3 sec. to transmit the distress call. While pushing [DISTRESS], the key backlighting is blinking. The distress information is stored for 10 minutes. Emergency channel (Ch70) is automatically selected and the Distress call is transmitted. Push [CLR] to exit the condition. r The position information appears. Set your latitude data using [s] or [t]. @@@@w Push [CLR] to cancel and exit the condition. Scrolls u After transmitting the distress call, the transceiver waits for an acknowledgment call on Ch 16.



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· The distress call is automatically transmitted every 3.5 to 4.5 mn. t After setting the longitude data, push [ENT] to set the current UTC time using [s] or [t], then push [ENT]. · Push [CH-DUAL] or [16-C] to move the cursor forward or backward, respectively.

· Push [CLR] to cancel and exit the condition. Scrolls i After receiving the acknowledgment, reply using the microphone. Scrolls 20 DSC OPERATION distress alert contains (default); A · Nature of distress : Selected nature of the distress · Position data : GPS or manual input position data is held for 23.5 hrs or until the power is turned OFF. 6 n Transmitting DSC calls To ensure correct operation of the DSC function, please make sure you set the squelch correctly. (p. 7) The Distress call is repeated every 3.5-4.5 mn., until receiving an acknowledgment.

' ('Call repeat' mode) · "RE-TRANSMISSION" is displayed. Push [DISTRESS] to transmit a renewed Distress call, if desired. Push [CLR] to transmit a the 'Cancel ACK' call to cancel the 'Call repeat' mode. · "CANCELED" is displayed. The Individual call function allows you to transmit a DSC signal to a specific ship only. q Push [MENU] to enter the DSC menu. w Push [Y] or [Z] to select "INDIVIDUAL," push [ENT]. D Transmitting an Individual call 6 "???" may blink instead of position and time indications when the GPS data is invalid, or has not been manually updated after 4 hours. Scrolls e Push [Y] or [Z] to select the desired pre-programmed individual address, push [ENT]. · The ID code must be set in advance.

(p. 14) Scrolls Continue to the next page 21 6 DSC OPERATION y Stands by on the intership channel, specified in step r, until an acknowledgment is received. · "WAIT ACK" scrolls at the channel comment indicator. r Push [Y] or [Z] to select the desired intership channel, push [ENT]. · Intership channels are already preset into the transceiver in preferred order. · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator. Scrolls Push u When the acknowledgment is received, "DSC" appears and "RCV ABLE ACK" or "RCV UNABLE ACK" scrolls at the channel comment indicator with beeps. · Push [CLR] to stop the beep. t Push [ENT] to transmit the Individual call. · If Channel 70 is busy, the transceiver stands by until the channel becomes clear.

@ @ @ @ w Push [Y] or [Z] to select "INDV ACK," push [ENT]. @ @ @ @ q Push [MENU] to enter the DSC menu. @ @ (p. @ @ @ @ @ @ @ @ @ @ @ @ · The selectable category may differ according to the programmed setting. Ask your dealer for the available categories. Transmitting y After the All Ships call has been transmitted, the specified channel (in step r) is selected automatically. r Push [Y] or [Z] to select the desired ITU channel, push [ENT]. · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator. Scrolls 25 6 DSC OPERATION Transmit a Position Request call when you want to know a specified ship's current position, etc. q Push [MENU] to enter the DSC menu.

w Push [Y] or [Z] to select "POS REQUEST," push [ENT]. D Transmitting a Position Request call r Push [ENT] to transmit the Position Request call. Transmitting Scrolls t After the Position Request call has been transmitted, returns to the normal operation. e Push [Y] or [Z] to select the desired pre-programmed individual address, push [ENT]. · The ID code must be set in advance.

(p. 14) · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator. Scrolls Push Scrolls 26 DSC OPERATION D Transmitting a Position Reply call 6 Transmit a Position Reply call when a Position Request call is received. q Push [MENU] to enter the DSC menu. w Push [Y] or [Z] to select "POS REPLY," push [ENT].

· "POS REPLY" item appears after receiving a Position Request call. t After editing the position data, push [ENT] to set. Then edit the current UTC time directly with [Y] or [Z] (p. 17), push [ENT]. · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator. 6 y Push [ENT] to transmit the Position Reply call. Scrolls e Push [Y] or [Z] to select the desired individual address, push [ENT]. Scrolls Transmitting r The position information appears. Input your position data (latitude and longitude) directly with [Y] or [Z]. (p.

17) u After the Position Reply call has been transmitted, returns to the normal operation. Scrolls 27 6 DSC OPERATION Transmit a Polling Request call when you want to know a specific ship's in the communication area, etc. q Push [MENU] to enter the DSC menu. w Push [Y] or [Z] to select "POLL REQUEST," push [ENT]. Scrolls D Transmitting a Polling Request call r Push [ENT] to transmit the Polling Request call. Transmitting t After the Polling Request call has been transmitted, returns to the normal operation. e Push [Y] or [Z] to select the desired pre-programmed individual address, push [ENT]. · The ID code must be set in advance. (p. 14) · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator.

Scrolls Push Scrolls 28 DSC OPERATION D Transmitting a Polling Reply call 6 Transmit a Polling Reply call when a Polling Request call is received. q Push [MENU] to enter the DSC menu. w Push [Y] or [Z] to select "POLL REPLY," push [ENT]. · "POLL REPLY" item appears after receiving a Polling Request call. r Push [ENT] to transmit the Polling Reply call.

Transmitting Scrolls t After the Polling Reply call has been transmitted, returns to the normal operation. 6 e Push [Y] or [Z] to select the desired individual address, push [ENT]. · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator. Scrolls Push Scrolls 29 6 DSC OPERATION D Test Call Testing on the exclusive DSC distress and safety calling channels should be avoided as much as possible by using other methods. When testing on the distress/safety channel is unavoidable, it should be indicated that these are test transmissions.

Normally the test call would require no further communications between the two stations involved. q Push [MENU] to enter the DSC menu. w Push [s] or [t] to select "TEST CALL," and push [ENT]. r Push [ENT] to transmit the Test call. · If Channel 70 is busy, the transceiver stands by until the channel becomes clear. Transmitting t After the Test call has been transmitted, returns to the normal operation. Scrolls Scrolls e Push [Y] or [Z] to select the desired pre-programmed coast station address, push [ENT]. · The ID code must be set in advance. (p. 14) · After pushing [ENT], Channel 70 is automatically selected and "READY" appears at the channel comment indicator.



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Push Scrolls 30 DSC OPERATION D Transmitting a Test Ack call 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Transmt a Test Acknowledgement call when a Test call s received. q Push [MENU] to enter the DSC menu. w Push [Y] or [Z] to select "TEST ACK," push [ENT]. · "TEST ACK" tem appears after receiving a Pollng Request call. r Push [ENT] to transmt the Test Ack call. Transmitting Scrolls t After the Test Ack call has been transmtted, returns to the normal operaton. e Push [Y] or [Z] to select the desred ndvudal address, push [ENT]. · After pushing [ENT], Channel 70 s automatcally selected and "READY" appears at the channel comment ndcator. Scrolls Push Scrolls 31 6 DSC OPERATION n Receiving DSC calls D Receiving a Distress call · Push any key to stop the alarm. Whle montornng Channel 70 and a Dstress call s received: The emergency alarm sounds for 2 mnutes. "DSC" appears and "RCV DISTRESS" scrolls at the channel comment ndcator, then Channel 16 s selected automatcally. Continue montornng Channel 16 as a coast staton may require asstance. Whle montornng Channel 70 and a Dstress Relay s received: The emergency alarm sounds for 2 mnutes. · Push any key to stop the alarm. D Receiving a Distress Relay call "DSC" appears and "RCV RELAY" scrolls at the channel comment ndcator, then Channel 16 s selected automatcally.

Scrolls Scrolls Whle montornng Channel 70 and a Dstress acknowledgement to other shp s received: The emergency alarm sounds for 2 mnutes. · Push any key to stop the alarm. D Receiving a Distress Acknowledgement Whle montornng Channel 70 and a Dstress Relay acknowledgement s received: The emergency alarm sounds for 2 mnutes. · Push any key to stop the alarm. D Receiving a Distress Relay Acknowledgement DSC" appears and "RCV DISTRESS ACK" scrolls at the " channel comment ndcator, then Channel 16 s selected automatcally.

"DSC" appears and "RCV RELAY ACK" scrolls at the channel comment ndcator, then Channel 16 s selected automatcally. Scrolls Scrolls 32 DSC OPERATION 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Receiving an Individual call Whle montornng Channel 70 and an Individual call s received: The emergency alarm or beeps sound for 2 mnutes depending on the received category. · Push [CLR] to stop the alarm or beeps. D Receiving a Group call Whle montornng Channel 70 and a Group call s received: The emergency alarm or beeps sound for 2 mnutes dependng on the received category. · Push [CLR] to stop the alarm or beeps. "DSC" appears and "RCV INDIVIDUAL" scrolls at the channel comment ndcator. "DSC" appears and "RCV GROUP" scrolls at the channel comment ndcator. Push [ENT] to select the channel specfied by the callng staton for voce communcaton; push [CLR] to gnore the call. Scrolls Scrolls Push [ENT] to reply the call and select the channel specfed by the callng staton for voce communcaton (dependng on your replyng condton. See p, 23 for Individual acknowledgement call procedure for details.

); push [CLR] other key to gnore the call. 33 6 DSC OPERATION D Receiving a Geographical Area call D Receiving an All Ships call Whle montornng Channel 70 and an All Shps call s received: The emergency alarm sounds for 2 mnutes depending on the received categories. · Push [CLR] to stop the alarm or beeps. "DSC" appears and "RCV ALL SHIPS" scrolls at the channel comment ndcator. Push [ENT] to montor Channel 16 for an announcement from the callng vessel, push [CLR] to gnore the call. Whle montornng Channel 70 and a Geographical Area call (for the area you are n) s received: The emergency alarm or beeps sound for 2 mnutes depending on the received category. · Push [CLR] to stop the alarm or beeps. "DSC" appears and "RCV GEOGRAPHICAL" scrolls at the channel comment ndcator. Scrolls Scrolls Push [ENT] to select the channel specfied by the callng staton for voce communcaton; push [CLR] to gnore the call. Montor the selected channel for an announcement from the callng staton.

When no GPS receiver s connected or f there s a problem with the connected receiver, all Geographcal Area calls are received, regardless of your poston. 34 DSC OPERATION D Receiving a Position Request call D Receiving a Position Reply call 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Whle montornng Channel 70 and a Poston Request call s received: "DSC" appears and "RCV POS REQUEST" scrolls at the channel comment ndcator. The beeps sound for 2 mnutes. · Push [CLR] to stop the beeps. Whle montornng Channel 70 and a Poston Request Reply call s received: "DSC" and "POS REPLY" appear n the dsplay. · The 'Latitude' and 'Longitude' from the called staton s dsplayed and scrolled at the channel comment ndcator n order of Latitude co-ordinates and then Longitude co-ordinates. · "NO POSITION" scrolls at the channel comment ndcator when no poston nformaton s received. [ENT] to reply to the call; push [CLR] to gnore the call. Push The beeps sound for 2 mnutes. Scrolls · Push [CLR] to stop the beeps.

Whle montornng Channel 70 and a Pollng Request call s received: "DSC" appears and "RCV POLL REQUEST" scrolls at the channel comment ndcator. The beeps sound for 2 mnutes. · Push [CLR] to stop the beeps. D Receiving a Pollng Request call Scrolls [ENT] to reply to the call; push [CLR] to gnore the call. Push Whle montornng Channel 70 and a Pollng Reply call s received: "DSC" appears and "RCV POLL REPLY" scrolls at the channel comment ndcator. The beeps sound for 2 mnutes. · Push [CLR] to stop the beeps. D Receiving a Pollng Reply call Scrolls Scrolls 35 6 DSC OPERATION D Receiving a Test call Whle montornng Channel 70 and a Test call s received: "DSC" appears and "RCV TEST CALL" scrolls at the channel comment ndcator. The beeps sound for 2 mnutes. · Push [CLR] to stop the beeps.

n Received messages The transceiver automatcally stores up to 20 dstress messages and 20 other messages. The messages can be used as an asstance to the logbook. [ENT] to reply to the call; push [CLR] to gnore the call. Push D Distress message q Push [MENU] to enter the DSC menu. w Push [s] or [t] to select "DSC LOG," and push [ENT]. Scrolls D Receiving a Test Acknowledgement call Whle montornng Channel 70 and a Test Acknowledgement call s received: "DSC" appears and "RCV TEST ACK" scrolls at the channel comment ndcator. The beeps sound for 2 mnutes. · Push [CLR] to stop the beeps. e Push [s] or [t] to select "DISTRESS," push [ENT]. Scrolls [ENT] to reply to the call; push [CLR] to gnore the call.



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Push r Push [s] or [t] to select the desired message, push [ENT]. · "M" appears when the unread messages s selected. Scrolls Scrolls 36 DSC OPERATION 6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 t The message nformation scrolls. · The stored message has various nformation. · Push [CLR] to ext the condton.
· Push and hold [CLR] for 1 sec. to delete the dsplayed message and returns to DSC menu. r Push [s] or [t] to select the dsred message, push [ENT]. · "M"
appears when the unread messages s selected. Scrolls Scrolls t The message nformation scrolls.
· The stored message has various nformation. · Push [CLR] to ext the condton. · Push and hold [CLR] for 1 sec. to delete the dsplayed message and returns to
DSC menu. D Other messages q Push [MENU] to enter the DSC menu. w Push [s] or [t] to select "DSC LOG," and push [ENT]. Scrolls e Push [s] or [t] to
select "OTHER," push [ENT]. 37 6 DSC OPERATION n Automatic acknowledgement This tem sets the automac acknowledgement functon ON or OFF. When
a poston request or polling request call s received, transceiver automacatcally transmits a poston request reply or polling reply call, respectively. q Push [MENU]
to enter the DSC menu.

w Push [s] or [t] to select "AUTO ACK," and push [ENT]. n Offset time This tem sets the offset tme from the UTC (Unversal Tme Coordinatd) tme. q Push
[MENU] to enter the DSC menu. w Push [s] or [t] to select "OFFSET TIME," and push [ENT]. Scrolls Scrolls e Push [s] or [t] to turn the automac
acknowledgement functon ON or OFF. e Set the offset tme from the UTC (Unversal Tme Coordinatd) tme usng [s] or [t]. · Push [CH-DUAL] or [16-C] to
move the cursor forward or backward, respectively. · Push [CLR] to cancel and ext the condton. r Push [ENT] to set the condton. · Push [CLR] to cancel and
ext the condton.

r Push [ENT] to program and to ext the condton. The local tme ndcaton s not avabile when the GPS receiver (sentence formatter RMC) s connected, the
transceiver's dsplay ndcates UTC tme only. 38 SET MODE n Set mode programming Set mode s used to change the condtons of the transceiver's functons:
Scan type, Scan resume tmer, Dual/Trwatch, Operaton beep, LCD backlght, LCD contrast, AF level adjustment and Favorte channel. Available functons may
dffer depending on dealer setng. D SET MODE CONSTRUCTION · Favorite channel · Scan type · Scan resume timer 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
q urn power OFF.

T w While pushng [16-C], turn power ON to enter Set mode. · "SCAN" appears at the channel comment ndcator. e After the dsplay appears, release [16-C]. r
Push [16-C] to select the dsred tem, f necessary. t ush [Y] or [Z] to select the dsred condton of the P tem.

y Turn power OFF, then ON agan to ext Set mode. · Dual/Tri-watch Scrolls Starting item · To enter Set mode: While pushing · To select the item: Push () ,
turn power ON. · To exit Set mode: Turn power OFF, then ON again. · AF level adjustment · LCD Contrast · LCD Backlight · Operation beep Scrolls Scrolls
39 7 SET MODE n Set mode items The transceiver has 2 scan types: Normal scan and Prorty scan. Normal scan searches all TAG channels n the selected
channel group. Prorty scan searches all TAG channels n sequence while montornng Channel 16. D Scan type D Dual/Tri-watch This tem can be selected as
Dualwatch or Tr-watch. (p. 12) Dualwatch (default) Tri-watch Priority scan (default) Normal scan D Scan resume timer You can select the slent operator by
turnng beep tones OFF or you can have confirmaton beeps sound at the push of a key by turnng beep tones ON.

D Operation beep The scan resume tmer can be selected as a pause (OFF) or tmer scan (ON). ON : The scan pauses 5 sec. and resumes even f a signal has
been received on any other channel than Channel 16. OFF : The scan pauses until the signal dsappears. Beep tone ON (default) Beep tone OFF Scan timer
OFF (default) Scan timer ON 40 SET MODE 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D LCD backlight The LCD backlght brghness can be adjusted from
OFF, 1 (dark) to 4 (brght.) LCD backlght s also adjustable va [SCAN-TAG] key. (p. 9) · "BACKLIGHT" scrolls at the channel comment ndcator. When turnng
the power ON, a beep s emtted to adjust the audo frequency level va [VOL]. Select the tme perod for the beep emsson from 2, 5, 8, 10 (sec.

) or OFF. D AF level adjustment Scrolls LCD backlight level 4 (default) LCD backlight OFF AF level 2 (default) AF level OFF The LCD contrast can be
adjustable n 4 levels. 1 s the lowest contrast, and 4 s the hghest contrast. · "CONTRAST" scrolls at the channel comment ndcator. D LCD contrast D Favorite
channel This tem sets the Favorte channel functon ON or OFF.

The favorte channels are set by the TAG channel setng. (p. 11) · "FAVORITE" scrolls at the channel comment ndcator. ON : [Y]/[Z] keys on the microphone
select the favorte channels n the selected channel group n sequence when pushed. OFF : [Y]/[Z] keys on the microphone select all channels n the selected
channel group n sequence when pushed.

Scrolls Scrolls LCD contrast level 3 (default) Favorite channel ON (default) Favorite channel OFF 41 8 q CONNECTIONS AND MAINTENANCE n
Connections w e CAUTION: After connectng the DC power cable, GPS receiver jack and external speaker jack, cover the connector and jacks wth an adhesve
tape as shown below, to prevent water seepng nto the transceiver. Rubber vulcanizing tape r t q DC POWER CONNECTOR Connects the supplied DC power
cable from ths connector to an external 13.8 V battery. w EXTERNAL SPEAKER JACK Connects to an external speaker. e GPS RECEIVER JACK Connects
to a GPS receiver for poston ndcaton. · A NMEA0183 ver. @@@@ Ask your dealer about sutable GPS receivers. Outer conductor : NMEA () Inner conductor :
NMEA (+) r ANTENNA CONNECTOR Connects a marne VHF antenna wth a PL-259 connector to the transceiver. CAUTION: Transmitng wthout an antenna
may damage the transceiver. t GROUND TERMINAL Connect ths termnal to a vessel ground to prevent electrcal shocks and nterference from other equipment
occurrng.

Use a PH M3 × 6 mm screw (not supplied). 42 CONNECTIONS AND MAINTENANCE 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 n Antenna A key element n the
performance of any communicaton system s the antenna. @@@@ Mount the transceiver so that the face of the transceiver s at 90° to your lne of sght
when operatng t. CAUTION: KEEP the transceiver and microphone at least 1 meter away from your vessel's magnetc navigaton compass. NOTE: Check the
nstallaton angle; the functon dsplay may not be easy-to-read at some angles.



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D Using the supplied mounting bracket EXAMPLE Flat washer Spring washer Knob bolt Screw (5x20 mm) 44 CONNECTIONS AND MAINTENANCE 8 1 2
3 4 5 6 7 8 9 10 11 12 13 14 15 16 n Optional MB-69 installation An optional MB-69 flush mount s available for mounting the transceiver to a flat surface such
as an instrument panel. CAUTION: KEEP the transceiver and microphone at least 1 meter away from your vessel's magnetic navigation compass. q Using the
template on p. @@@@e Attach the clamps on either side of the transceiver with 2 supplied bolts (5 x 8 mm). · Make sure that the clamps align parallel
to the transceiver body.

t r 45 9 TROUBLESHOOTING POSSIBLE CAUSE SOLUTION · Check the connection to the transceiver. · Set [SQL] to the threshold point. · Set [VOL] to a
suitable level. · Drain water from the speaker. REF.

p. 42 p. 7 p. 7 p. 9 PROBLEM The transceiver does · Bad connection to the power supply.

not turn ON. No sound from speaker. · Squelch level s too high. · Volume level s too low. · Speaker has been exposed to water. Transmittng s mpos- · Some
channels are for low power or re- · Change channels. pgs. 5, sble, or high power can ceve only. 6, 50 · The output power s set to low. · Push [HI/LO] on the
microphone to select p.

7 not be selected. high power. Scan does not start. No beeps. Distress call cannot be transmitted. · TAG channel s not programmed. · Beep tones are turned
OFF. · Set the desired channels as TAG channels. · Turn the beep tone ON n Set mode. p.

11 p. 40 p. 13 · MMSI (DSC self ID) code s not pro- · Program the MMSI (DSC self ID) code. grammed. 46 SPECIFICATIONS AND OPTION n
Specifications D General · Frequency coverage : Tx 156.

000161.450 MHz Rx 156.000163.425 MHz · Mode : FM (16K0G3E), DSC (16K0G2B) · Channel spacing : 25 kHz · Current drain (at 13.8 V) : TX high 5.
5 A max. Max. audio 1.5 A max. · Power supply requirement : 13.8 V DC (10.8 to 15.6 V) (negative ground) · Frequency stability : Less than ±1.5 kHz · Operating
temp. range : 20°C to +60°C · Antenna impedance : 50 ϕ nominal · Input impedance (MIC) : 2 k ϕ · Output impedance (audio) : 4 ϕ · Dimensions : 164(W) x 78(H)
x 139.

5(D) mm (Projections not included) · Weight : Approx. 1080 g 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Transmitter : 25 W/1 W : Variable reactance
frequency modulation · Max. frequency deviation : ±5.0 kHz · Spurious emissions : Less than 0.25 μ W · Adjacent channel power : More than 70 dB · Audio
harmonic distortion : Less than 10% (at 60% deviation) · Residual modulation : More than 40 dB · Audio frequency response : +1 to 3 dB of 6 dB/octave range
from 300 to 3000 Hz · RF output power · Modulation system D Receiver · Receive system : Double conversion superheterodyne · Sensitivity (20 dB SINAD) : 5
dB μ emf (typical) · Squelch sensitivity : Less than 2 dB μ emf · Intermodulation rejection ratio : More than 68 dB · Spurious response rejection ratio : More than 70
dB · Adjacent channel selectivity : More than 70 dB · Audio output power : More than 2.0 W at 10% distortion with a 4 ϕ load All stated specifications are subject
to change without notice or obligation. 47 10 SPECIFICATIONS AND OPTION D Dimensions 148 139.5 60.6 164 28.3 111.

2 14.2 Unit: mm 48 78 SPECIFICATIONS AND OPTION 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 n Option · MB-69 flush mount kit For mounting the
transceiver to a panel. 49 11 CH 01 02 03 04 05 06 07 08 09 10 Transmit 156.050 156.100 156.
150 156.200 156.250 156.300 156.350 156.

400 156.450 156.500 CHANNEL LIST CH 11 12 13 14 16 18 19 20 Frequency (MHz) Transmit 156.550 156.600 156.650 156.700 156.800 156.900 156.950
157.

000 Receive 156.550 156.600 156.650 156.700 156.750 156.800 156.850 161.500 161.550 161.
600 CH 21 22 23 24 25 26 27 28 60 Frequency (MHz) Transmit 157.050 157.100 157.150 157.200 157.
250 157.300 157.350 157.400 156.025 Receive 161.

650 161.700 161.750 161.800 161.850 161.900 161.950 162.000 157.850 160.625 CH 61 62 63 64 65 66 67 68 69 Frequency (MHz) Transmit 156.

075 156.125 156.175 156.225 156.275 156.325 156.375 156.425 156.475 Receive 160.675 160.
725 160.775 160.825 160.875 160.925 156.

375 156.425 156.475 156.525 CH 71 72 73 74 Frequency (MHz) Transmit 156.575 156.
625 156.675 156.725 Receive 156.575 156.625 156.675 156.725 156.775 156.825 156.875 161.

525 161.575 161.625 CH 81 82 83 84 85 86 87 88 Frequency (MHz) Transmit 157.075 157.125 157.175 157.225 157.275 157.325 157.375 157.
425 Receive 161.675 161.725 161.775 161.825 161.

875 161.925 157.375 157.425 161.425 · International channels Frequency (MHz) Receive 160.
650 160.700 160.750 160.800 160.850 156.300 160.950 156.400 156.450 156.500 15*2 156.

750 17*2 156.850 75*4 156.775 76*4 156.825 77 78 79 80 156.875 156.925 156.975 157.025 37A*3 157.850 P4*3 161.425 70*1 156.

525 *1 DSC operation only. *2 Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1
W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters. *3 UK Marina Channels:
M1=37A (157.850 MHz), M2=P4 (161.425 MHz) for U.

K. version only *4 The use of these channels should be restricted to navigation-related communications only and all precautions should be taken to avoid
harmful interference to channel 16, e.g. by limiting the output power to 1 W or by means geographical separation. 50 CHANNEL LIST · USA channels (for U.
K. version only) CH Frequency (MHz) Transmit ---156.300 156.400 156.450 156.500 156.550 Receive 156.050 --156.150 --156.250 156.

300 156.350 156.400 156.450 156.500 156.550 CH 12 14 16 Frequency (MHz) Transmit 156.600 156.700 156.800 Receive 156.600 156.
650 156.700 156.750 156.800 156.850 156.

900 156.950 161.600 157.000 157.050 CH Frequency (MHz) Transmit Receive 157.

100 157.150 161.800 161.850 161.900 161.950 162.000 157.850 156.075 --156.175 CH Frequency (MHz) Transmit Receive 156.

225 156.275 156.325 156.375 156.425 156.475 156.525 156.575 156.625 156.675 156.

725 CH 75* 1 11 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Frequency (MHz) Transmit 156.775 Receive 156.775 156.825 156.875 156.
925 156.975 157.025 157.075 157.125 157.

175 161.825 157.225 CH 85 86 87 88 Frequency (MHz) Transmit 157.275 157.325 157.375 157.425 Receive 161.875 157.275 161.925 157.

325 161.975 157.375 162.025 157.425 161.425 01A 156.050 --06 08 09 10 11 1 22A 157.100 23A 157.150 24 25 26 27 28 157.200 157.
250 157.300 157.350 157.400 64A 156.225 65A 156.
275 66A 156.325 67*2 156.375 68 69 71 72 73 74 156.425 156.475 156.
575 156.625 156.675 156.725 13*2 156.650 15*2 156.750 17*1 156.850 18A 156.900 19A 156.950 20 157.000 20A 157.
000 21A 157.050 76*1 156.825 77*1 156.875 78A 156.925 79A 156.975 80A 157.025 81A 157.075 82A 157.125 83A 157.175 84 157.



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225 84A 157.225 85A 157.275 86A 157.325 87A 157.375 88A 157.

425 P4*4 161.425 03A 156.150 05A 156.250 07A 156.350 70*3 156.

525 37A*4 157.850 61A 156.075 ---63A 156.175 * Low power only. *2 Momentary high power. *3 DSC operation only. *4 UK Marina Channels: M1=37A (157.850 MHz), M2=P4 (161.425 MHz) for U.K.

version only NOTE: Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 CANNOT be lawfully used by the general public in U.S.A. waters. 51 TEMPLATE 164 149 12 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 R8 (Max.) 61.6 Cut here Unit: mm NOTE: The solid line is the line to use when cutting into the dash/helm. The dotted line shows the outline of the IC-M411's front panel once the radio is fitted into the hole. Do not follow the dotted line when making the hole in your dash/helm. 78 53 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-6615D-1EU-a Printed in Japan © 2007 Icom Inc.

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