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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-M35. You'll find the answers to all your questions on the ICOM IC-M35 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER
IC-M35

Icom Inc.



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Manual abstract:

2008 Place and date of issue Icom (Europe) GmbH Himmelgeister straÙe 100 D-40225 Düsseldorf Authorized representative name iM35 Version (where applicable): This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 301 178-2 V1.2.2 (2007-2) ii) EN 60945 2002 iii) EN 60950-1 2001 iv) EN 300 698-2 V1.1.1 (2000-8) v) EN 300 698-3 V1.1.1 (2001-5) vi) vii) Y. Furukawa General Manager Signature

i IN CASE OF EMERGENCY If your vessel requires assistance, contact other vessels and the Coast Guard by sending a distress call on Channel 16. RECOMMENDATION CLEAN THE TRANSCEIVER THOROUGHLY WITH FRESH WATER after exposure to saltwater, and dry it before operation. Otherwise, the transceiver's keys, switches and controllers may become unusable due to salt crystallization.

@@@@"MAYDAY MAYDAY MAYDAY." 2. "THIS IS ...

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" (name of vessel) 3. Your call sign or other indication of the vessel. 4. "LOCATED AT

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... " (your position) 5. The nature of the distress and assistance required.

6. @@@@ With proper care this radio should provide you with years of trouble-free operation. FEATURES Floating on water The transceiver floats on fresh or salt water even when the supplied accessories are attached. · When a third-party battery pack, strap, antenna, etc. is used, it may sink. · The battery contacts may be prone to rust if the transceiver is kept floating on the water. IMPORTANT READ ALL INSTRUCTIONS pletely before using the transceiver. carefully and com- Clear voice boost The transceiver has the noise detection function which enables automatic volume adjustment and the volume loud function that enables you to maximize the volume level instantly to provide clear communication in the noisy marine environments. SAVE THIS INSTRUCTION MANUAL--This instruction manual contains important operating instructions for the IC-M35. EXPLICIT DEFINITIONS WORD RWARNING CAUTION NOTE iii DEFINITION Personal injury, fire hazard or electric shock may occur.

Equipment damage may occur. If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. Noise cancelling microphone The sub-microphone on the rear panel inverts the phase and cancels out the ambient noise from the main microphone. As a result, the transceiver can reduce the influence of the background noise (particularly treble noise) on the transmitted signal. · The noise cancellation can produce no effect according to conditions such as loudness and type of noise, or the position and distance between the noise source and the microphone, etc. · The noise cancellation does not work when an optional external speaker-microphone is connected. PRECAUTIONS RWARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. RWARNING! NEVER hold the transceiver so that the antenna is closer than 2.

5 cm from exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm away from the lips and the transceiver is vertical. BE CAREFUL! The transceiver meets IPX7* requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal. *

Only when the BP-251 (option) or BP-252, flexible antenna, [SP MIC] cap is attached.

NEVER connect the transceiver to a power source other than the BP-251 (option) or BP-252. Such a connection will ruin the transceiver. DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below 15°C or above +55°C. KEEP the transceiver out of the reach of children. KEEP the transceiver at least 0.

9 meters away from your vessel's magnetic navigation compass. MAKE SURE the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver. After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue. BE CAREFUL! The transceiver's right-side panel will become hot when operating continuously for long periods. Icom, Icom Inc. and the logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. iv TABLE OF CONTENTS DOC...

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..29 v OPERATING RULES D Priorities · Read all rules and regulations pertaining to priorities 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 calls are prohibited under law. 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 (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 entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.



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D Privacy · Information overheard but not intended for you cannot lawfully be used in any way. · Indecent or profane language is prohibited. D Radio licenses (1) SHIP STATION LICENSE You must have a current radio station license before using the transceiver.

It is unlawful to operate a ship station which is not licensed. Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license application. This government-issued license states the call sign which is your craft's identification. (p. 9) Push to return to the previous channel before selecting channel 16 or the call channel.

* U.K. version only. Push to restore the changed volume level by the noise detection, volume loud, or volume mute function to the original. (pgs. 12, 20) Push and hold for 1 sec. to activate the monitor function. (p. 13) While pushing and holding this key, turn power ON to enter the set mode. (p.

17) While in the set mode, push to select an item. (p. 17) y SCAN/DUAL KEY [SCAN DUAL] Push to start or stop normal or priority scan. (p. 15) Push and hold for 1 sec. to enter the watch mode. (p. 16) Push to exit the watch mode. (p. 16) Push and hold this key and [Hi/Lo], to activate the AquaQuake function. (p. 13) u CHANNEL UP/DOWN KEYS [Y]/[Z] Selects an operating channel. (pgs. 8, 9) While in the set mode, selects the setting or value of an item. (p.

17) Checks TAG channels or changes scanning dirency communications. Channel 16 is monitored during both Dualwatch and Tri-watch. While in the standby condition, you must monitor Channel 16. q Push [16 C] momentarily to select Channel 16. w Push [CH] to return to the channel used before Channel 16, or push [Y]/[Z] to select a channel.

w Push [CH] to return to the channel used before call channel, or push [Y]/[Z] to select a channel. Push Push and hold for 1 sec. Convenient! While pushing and holding [FAV TAG], push [Y]/[Z] to select the favourite (TAG) channels with ignoring untagged channels in the selected channel group in sequence. ·

Pushing [FAV TAG] only advances the displayed TAG channel. · The favourite channels are selected using the TAG channel setting. (p. 15) 8 BASIC OPERATION D U.S.A., International and ATIS channels The transceiver is pre-programmed with U.

S.A. *, International and ATIS channels. These channel groups may be specified for the operating area. * U.K. version only. 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 German and Holland versions only. q Push [CH] to select a regular channel. w Push and hold [CH] for 1 sec.

to change the channel group. · International and U.S.A., International and ATIS channel groups can be selected in sequence.

e Push [Y]/[Z] to select a channel. · "DUP" appears for duplex channels. International channels Push and hold for 1 sec. U.S.

A. channels ATIS channels 9 4 BASIC OPERATION Receiving and transmitting CAUTION: Transmitting without an antenna may damage the transceiver. q

Push and hold [] to turn power ON. w Set the volume and squelch levels. You can enter each adjust mode with [VOL/SQL MONI]. Enter the squelch adjustment mode, and push [Z] several times to open the squelch. Enter the volume adjustment mode, then push [Y]/[Z] to adjust the volume level. Enter the squelch adjustment mode again, and push [Y] until the noise disappears. e Push [Y]/[Z] to select the desired channel. · When receiving a signal, " " appears and audio is emitted from the speaker.

· Further adjustment of the audio may be necessary at this point. IMPORTANT: To maximize the readability of your transmitted signal, pause a few sec. after pushing [PTT], hold the microphone 5 to 10 cm from your mouth and speak into the microphone at a normal voice level. NOTE: The transceiver has a power save function to conserve the battery power. The power save function activates automatically when no signal is received for 5 sec. t Push to transmit. y Release to receive. w Enter the volume and squelch adjustment mode. Microphone w Adjust the volume and squelch level. r Push [Hi/Lo] to select the output power if necessary.

· "LOW" appears when low power is selected; no indication when high power is selected. · Choose low power for short range communications, choose high power for longer distance communications. · Some channels are for low power only. e Set channel. r Set output power.

q Power ON. t Push and hold [PTT] to transmit, then speak into the microphone. · " " appears. · Channel 70 cannot be used for transmission. y Release [PTT] to receive.

10 BASIC OPERATION 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Call channel programming Call channel is used to access Channel 16 (default; may differ according to the version), however, you can program the call channel with your most often-used channels in each channel group for quick recall. q Push and hold [CH] for 1 sec. once or twice to select the desired channel group (U.S.A., International or ATIS) to be programmed. (p. 9) w Push and hold [16 C] for 1 sec. to select the call channel of the selected channel group. · "CALL" and call channel number appear.

Adjusting the volume level The volume level can be adjusted with [VOL/SQL MONI] and [Y]/[Z]. q Push [VOL/SQL MONI] once to enter the volume adjustment mode, then adjust the volume level with [Y]/[Z]. · "VOL" indicator starts blinking. · The transceiver has 31 volume levels and OFF. · With no key operation is performed for 5 sec., the transceiver returns to the normal condition. w Push [VOL/SQL MONI] twice to exit the volume adjustment mode. e Push and hold [16 C] again for 3 sec. (until a long beep changes to 2 short beeps) to enter the call channel programming mode. · Channel number starts blinking. Indicates the volume level. @@@@The function does not work when the volume level is 31. @@@@The function does not work when the volume level is OFF. q Push and hold [LOUD MUTE] for 1 sec. @@@@* In the volume or squelch adjustment mode only.

Push and hold [Hi/Lo] for 1 sec. @@The automatic backlighting can be activated in the set mode. (p. @@@@to drain water, regardless of the volume level setting. @@@@The monitor key action can be selected in the set mode.

(p. @@@@The transceiver has priority scan and normal scan. @@@@ (p. @@@@ (p. @@@@ Channels that are not tagged will be skipped during scanning. @@@q Push and hold [CH] for 1 sec. once or twice to select the desired channel group. w Select the desired channel to be set as a TAG channel. e Push and hold [FAV TAG] for 1 sec.

@@@ (p. 18) q Push and hold [CH] for 1 sec. once or twice to select the desired channel group. @@@@ · When a signal is received, scan pauses until the signal disappears or resumes after pausing 5 sec. according to the set mode setting. · Push [Y]/[Z] to check which channels have been set as TAG channels, change the scanning direction or resume the scan manually.



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r To cancel TAG channel setting, push and hold [FAV TAG] for 1 sec. " " disappears. e To stop the scan, push [SCAN DUAL]. "SCAN" disappears.
· Pushing [PTT], [16 C], [CH] or [FAV TAG] also stops the scan. Clearing (or setting) all tagged channels While pushing and holding [FAV TAG], turn power ON to clear all TAG channels in the selected channel group. · Repeat above procedure to set all channels as TAG channels (when no TAG channel has been set.) [Example]: Starting a normal scan. Scan starts Blinks Appears Push 15 6 DUALWATCH/TRI-WATCH (Except Holland version) Operation q Select Dualwatch or Tri-watch in the set mode.
(p. 19) w Select the desired channel. e Push and hold [SCAN DUAL] for 1 sec. to start Dualwatch or Tri-watch (depending on the set mode setting). "DUAL" blinks during Dualwatch; "TRI" blinks during Tri-watch.
· A beep tone sounds when a signal is received on Channel 16. · Tri-watch becomes Dualwatch when receiving a signal on the call channel. Description Dualwatch monitors Channel 16 while you are receiving on another channel; Tri-watch monitors Channel 16 and the call channel while receiving another channel. Dualwatch/Triwatch is convenient for monitoring Channel 16 when you are operating on another channel. DUALWATCH/TRI-WATCH SIMULATION Call channel r To cancel Dualwatch/Tri-watch, push [SCAN DUAL] again. [Example]: Operating Tri-watch on INT channel 07. Tri-watch starts. Signal is received on call channel. Ch 16 Ch 88 Ch 88 Ch 16 Ch 88 Ch 20 Dualwatch Tri-watch · If a signal is received on Channel 16, Dualwatch/Triwatch pauses on Channel 16 until the signal disappears. · If a signal is received on the call channel during Triwatch, Tri-watch becomes Dualwatch until the signal disappears.
· To transmit on the selected channel during Dualwatch/ Tri-watch, push and hold [PTT]. Tri-watch resumes after the signal disappears. Signal received on Channel 16 takes priority. 16 SET MODE Set mode programming Set mode is used to change the conditions of transceiver's functions: Beep tone function, Priority scan function, Scan resume timer, Auto scan function, Dual/Tri-watch function, Monitor key action, Automatic backlighting, LCD contrast setting, Power save function, Squelch sensitivity, Low fix function* and Noise detection function. * Appears only when the optional battery case is attached; not available with German version depending on the pre-setting. Not available with Holland version. 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Set mode operation q Turn power OFF. w While pushing [VOL/SQL MONI], turn power ON to enter the set mode. "bP" appears. e Push [VOL/SQL MONI], or push [Y]/[Z] while pushing and holding [VOL/SQL MONI] to select the desired item.
r Push [Y]/[Z] to select the desired condition of the item. t To exit the set mode, push [16 C]. · Scan resume timer · Auto scan D SET MODE ITEMS · Noise detection (The display shows the current settings, and the selected item is displayed in the dotted circle.) · Priority scan · Beep tone Starting item · Low fix* : Push or + *Appears only when the optional battery case is attached; not available with German version depending on the pre-setting. · Dual/Tri-watch : Push · Squelch sensitivity · Power save + · LCD contrast Not available with Holland version.
· Automatic backlighting · Monitor key action 17 7 SET MODE Set mode items D Beep tone function · OFF: For silent operation. · ON : A fixed beep sounds. · US : The preset beeps (e.g. do, re, mi) sound.
"bP" D Scan resume timer "St" Select the key touch beep sound from ON or US, or turn sound OFF. (Not available with Holland version) The scan resume timer can be set as a pause (OFF) or timer scan (ON). · OFF: When a signal is detected on a channel, scan pauses on the channel until the signal disappears, and then resumes. · ON : When a signal is detected on a channel, scan pauses on the channel for 5 sec., and then resumes. Push Beep tone ON (default) Beep tone OFF Push Scan resume timer OFF (default) Scan resume timer ON D Priority scan function "Pr" (Not available with Holland version) The transceiver has 2 scan types-- normal (OFF) and priority (ON) scans. Normal scan searches all TAG channels in the selected channel group. Priority scan searches all TAG channels in sequence while monitoring Channel 16. D Auto scan function "AS" (Not available with Holland version) The auto scan function starts normal or priority scan automatically when no signal is received, and no operation is performed for 30 sec. Push Push Normal scan (default) Priority scan Auto scan OFF (default) Auto scan ON 18 SET MODE D Dual/Tri-watch function "dt" D Automatic backlighting 7 "bL" (Not available with Holland version) This item can be set as Dualwatch or Tri-watch.
(p. 16) This function is convenient for night-time operation. The backlight can be selected from ON and OFF. · The backlight is automatically activated when any key except for [PTT] is pushed. · The backlight is automatically turned OFF after 5 sec. of inactivity. Push Dualwatch function (default) Tri-watch function Push Auto backlighting ON (default) Auto backlighting OFF D Monitor key action "Sq" The monitor key opens the squelch temporarily. This item sets the key action. · Pu (PUSH) : The monitor function is activated by pushing and holding [VOL/SQL MONI] for 1 sec. The squelch opens while holding down the key.
· Ho (HOLD) : The monitor function is activated by pushing and holding [VOL/SQL MONI] for 1 sec. The squelch stays open until any key is pushed. D LCD contrast setting "LC" Set the LCD contrast level from High contrast and Low contrast. @@ · ON : The power save function is turned ON.
@@@@@@@High temperature buildup in the battery, such as could occur near fires or stoves, inside a sun-heated car, or by setting the battery in direct sunlight may cause the battery to rupture or catch fire.
Excessive temperatures may also degrade battery performance or shorten battery life. R DANGER! DO NOT expose the battery to rain, snow, saltwater, or any other liquids. Never charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using. The battery by itself is not waterproof.
R DANGER! NEVER incinerate a used battery pack since internal battery gas may cause them to rupture or may cause an explosion. R DANGER! NEVER solder the battery terminals, or NEVER modify the battery pack. This may cause heat generation, and the battery may rupture, emit smoke or catch fire.



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R DANGER! Use the battery only with the transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not described in this instruction manual. **R DANGER!** If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and see a doctor immediately. **D Battery caution R DANGER!** DO NOT hammer or otherwise impact the battery. Do not use the battery if it has been severely impacted or dropped, or if the battery has been subjected to heavy pressure. Battery damage may not be visible on the outside of the case.

Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire. **21 8 BATTERY CHARGING D** Charging caution **R DANGER!** NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated car, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. **WARNING!** DO NOT charge or leave the battery in the battery charger beyond the specific time for charging. If the battery is not completely charged by the specific time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specific time limit may cause a fire, overheating, or the battery may rupture. **WARNING!** NEVER insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof. **CAUTION!** DO NOT charge the battery outside of the specific temperature range: $\pm 0^{\circ}\text{C}$ to $+40^{\circ}\text{C}$.

Icom recommends charging the battery at $+20^{\circ}\text{C}$. The battery may heat up or rupture if charged out of the specific temperature range. Additionally, battery performance or battery life may be reduced. **WARNING!** Immediately stop using the battery if it emits an abnormal odour, heats up, or is discoloured or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

WARNING! Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery. **WARNING!** NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause overheating, a fire, or cause the battery to rupture. **CAUTION!** Always use the battery within the specific temperature range for the transceiver (15°C to $+55^{\circ}\text{C}$) and the battery itself (20°C to $+60^{\circ}\text{C}$). Using the battery out of its specific temperature range will reduce the battery's performance and battery life.

CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above $+50^{\circ}\text{C}$) for an extended period of time. If the battery must be left unused for a long time, it must be detached from the radio after discharging. You may use the battery until the remaining capacity is about half, then keep it safely in a cool dry place with the temperature range as below; 20°C to $+50^{\circ}\text{C}$ 20°C to $+35^{\circ}\text{C}$ 20°C to $+20^{\circ}\text{C}$ 22 (within a month) (within three months) (within a year) **BATTERY CHARGING 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16** Supplied battery charger *i* Charging connections Do not charge batteries other than the BP-252. *q* Attach the BC-173 to a flat surface, such as a desk, if desired. *w* Connect the AC adapter as shown below. *e* Insert the battery pack with/without the transceiver into the charger. · The charge indicator lights orange. · The charge indicator blinks orange (or orange/green alternately) when the protector is activated. Optional battery case When you would like to use the optional AAA(LR03) size battery case (BP-251), install the batteries as illustrated below. Be sure to observe the correct polarity.

CAUTION: · When installing batteries, make sure they are all the same brand, type and capacity. Also, do not mix new and old batteries together. · Keep battery contacts clean. It's a good idea to clean battery terminals once a week. · When using the optional battery case, output power level is 2 W at high. (Depends on the pre-setting for German version.) **NOTE:** The transceiver can sink when the optional battery case is attached. (Depends on the weight of the installed batteries.) *r* Charge the battery pack approx. 10 hours, depending on the remaining power condition.

· The charge indicator lights green when charging is completed. Battery pack Charge indicator lights orange when the battery pack (with/without the transceiver) is inserted. Transceiver Turn power OFF **NOTE:** The battery charger, BC-173, has a charging timer. The timer stops the charging process after 14 hours (approx.).

BC-173 Supplied screws AC adapter (Not supplied with some versions) **23 8 BATTERY CHARGING** Optional battery charger **D BC-162** installation · To a desktop Supplied screws **D** Charging · To a wall Supplied screws *q* Connect the AC adapter as shown below. *w* Insert the battery pack with/without the transceiver into the charger. · The charge indicator lights orange. · The charge indicator blinks orange (or red) when the protector is activated. *e* Charge the battery pack approx.

@@@to your shirt or collar, etc. PTT switch Transmits during push. Receives during release. @@@@Be careful not to cross-thread the connection. **IMPORTANT:** KEEP the transceiver's [SP MIC] cap attached when the speaker-microphone is not in use. If the cover is not attached, water will get into the transceiver. Moreover, the terminals (pins) will become rusty, or the transceiver will function abnormally if the connector gets wet. **CAUTION:** Attach the speaker-microphone's connector securely to prevent accidental loss, or water intrusion in the connector. Detaching: Rotate the [SP MIC] cap counterclockwise (*q*), then detach it (*w*). *w* *q* NEVER immerse the connector in water.

If the connector gets wet, be sure to dry it BEFORE attaching it to the transceiver. @@@@5 to 10 cm from your mouth, and speak in a normal voice level. @@q **w 10 TROUBLESHOOTING POSSIBLE CAUSE SOLUTION REF.** p. 23 p. @@ · Recharge the battery pack. ON. · The battery pack is not attached cor- · Attach the battery pack correctly. rectly. No sound from speaker.

· The squelch level is too high. · Volume level is too low. · Speaker has been exposed to water. · Set the squelch level to the threshold level. p. 12 · Adjust the audio level to a suitable level. p. 11 · Drain water from the speaker. p. 13 pgs.

8, 9, 27 p. 23 -- p. 10 Transmitting is impossible, · Some channels are for low power or re- · Change channels. or high power can not be se- ceive only. · Recharge the battery pack.



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lected. · The battery is exhausted. · Make sure the battery voltage is correct. · The battery is over charged. · Push [Hi/Lo] · The output power is set to low.

] to select high power. The displayed channel cannot · Lock function is activated. be changed. Scan does not start. No beep emits. Battery voltage error. The noise cancellation does not work. · "TAG" channels are not programmed. · Beep tone function is turned OFF. · Push and hold [Hi/Lo] cancel the function.] for 1 sec. to p. 13 · Set the desired channels as "TAG" chan- p. 15 nels. · Set the beep tone to ON (Fix Beep/User p. 18 Beep) in the set mode. -- · The connected battery pack's voltage is · Make sure the battery voltage is correct. more than 11 V. · The sub-microphone is covered with · Make sure the sub-microphone is not p. 4 covered.

something. p. 25 · An optional external speaker-micro- · Disconnect the microphone. phone is connected. · The sub-microphone is covered with · Make sure the sub-microphone is not p. 4 something. covered. · The squelch is open. · Set the squelch level to the desired level. p.

12 The noise detection function does not work. 26 VHF MARINE CHANNEL LIST · International channels CH 01 02 03 04 05 06 07 08 09 10 Frequency (MHz) Transmit 156.050 156.100 156.150 156.200 156.250 156.300 156.350 156.400 156.450 156.500 Receive CH Frequency (MHz) Transmit 156.550 156.600 156.650 156.700 156.750 156.800 156.850 156.900 156.950 157.000 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 61 Frequency (MHz) Transmit 157.050 157.100 157.150 157.200 157.250 157.300 157.350 157.400 156.025 156.075 Receive 161.650 161.700 161.750 161.800 161.850 161.900 161.950 162.000 160.625 160.675 CH 62 63 64 65 66 67 68 69 70 71 Frequency (MHz) Transmit 156.125 156.175 156.225 156.275 156.325 156.375 156.425 156.475 Rx only 156.575 Receive CH Frequency (MHz) Transmit 156.625 156.675 156.725 156.775 156.825 156.875 156.925 156.975 157.025 157.075 Receive 156.625 156.675 156.725 156.775 156.825 156.875 161.525 161.575 161.625 161.675 CH 82 83 84 85 86 87 88 11 Receive 161.725 161.775 161.825 161.875 161.925 157.375 157.425 Frequency (MHz) Transmit 157.125 157.175 157.225 157.275 157.325 157.375 157.425 160.650 11 160.700 12 160.750 13 160.800 14 160.850 15*1 156.300 16 160.950 17*1 156.400 18 156.450 19 156.500 20 160.725 72 160.775 73 160.825 74 160.875 75*2 160.925 76*2 156.375 77 156.425 78 156.475 79 156.525 80 156.575 81 *1 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. *2 The output power of channels 75 and 76 are limited to low power (1 W) only. 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 means geographical separation. · USA channels (for U.

K. versions only) CH 01A 03A 05A 06 07A 08 09 10 11 Frequency (MHz) Transmit 156.050 156.150 156.250 156.300 156.350 156.400 156.450 156.500 156.550 Receive 156.050 156.150 156.250 156.300 156.350 156.400 156.450 156.500 156.550 CH 12 13 14 15 16 17 18A 19A 20 20A 21A Frequency (MHz) Transmit 156.600 156.650 156.700 156.750 156.800 156.850 156.900 156.950 161.600 157.000 157.050 CH 22A 23A 24 25 26 27 28 37A* 61A 63A Frequency (MHz) Transmit 157.100 157.150 157.200 157.250 157.300 157.350 157.400 157.850 156.075 156.175 Receive 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 77 78A 79A 80A 81A 82A 83A 84 84A 85 85A Frequency (MHz) Transmit 156.875 156.925 156.975 157.025 157.075 157.125 157.175 157.225 157.275 157.275 Receive CH Frequency (MHz) Transmit Receive 161.925 157.325 161.975 157.375 162.025 157.425 161.425 157.100 64A 156.225 157.150 65A 156.275 161.800 66A 156.325 161.850 67 156.375 161.900 68 156.425 161.950 69 156.475 162.000 70 Rx only 157.850 71 156.575 156.075 72 156.625 73 156.675 156.175 74 156.725 156.875 86 157.325 156.925 86A 157.325 156.975 87 157.375 157.025 87A 157.375 157.075 88 157.425 157.125 88A 157.425 157.175 P4* 161.425 161.825 157.225 161.875 157.275 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 *UK marina channels: M1=37A (Tx/Rx: 157.850 MHz), M2=P4 (Tx/Rx: 161.425 MHz) for U.K. versions only. The programmed channels are differ according to versions. 27 12 SPECIFICATIONS : Transmit 156.000/161.450 MHz Receive 156.000/163.425 MHz : FM (16K0G3E) : 25 kHz : BP-251 and BP-252 only ï GENERAL · Frequency coverage ï RECEIVER · Receive system · Sensitivity (20 dB SINAD) · Squelch sensitivity · Intermodulation · Spurious response · Mode · Channel spacing · Power supply requirement · Current drain (at 7.4 V DC) TX at 6 W : 1.5 A typical at 5 W : 1.3 A typical at 1 W : 0.7 A typical at 0.5 W : 0.6 A typical RX Max. audio Internal speaker : 0.3 A typical External speaker : 0.2 A typical Power save : 10 mA typical · Frequency stability : ±1.5 kHz · Operating temperature range : 15°C to +55°C · Dimensions : 62 (W) × 139.5 (H) × 43 (D) mm (Projections not included) · Weight : Approx. 295 g (incl. BP-252, FA-SC58V and MB-109) : Double-conversion superheterodyne : 2 dBµ emf typical : 6 dBµ emf typical (at threshold) : 68 dB : 70 dB*

*65 dB for Australian version · Adjacent channel selectivity : 70 dB · Audio output power (at 10% distortion) Internal speaker : 0.7 W typical with a 16 load
External speaker : 0.2 W with an 8 load All stated specifications are subject to change without notice or obligation. i TRANSMITTER · Output power (at 7.4 V
DC) : 6 W (High) and 1 W (Low)* *5 W (High) and 1 W (Low) for Australian version 1 W (High) and 0.5 W (Low) for German version depending on the pre-
setting : Variable reactance frequency modulation · Maximum frequency deviation : ± 5 kHz · Adjacent channel power : 70 dB · Spurious emissions : 0.25 μ W
· Modulation system 28 OPTIONS D BATTERY CASE AND PACK · BP-251 BATTERY CASE Battery case for 5 \times AAA (LR03) alkaline cells. Output power
level: 2 W at high (Depends on the pre-setting for German version.) · BP-252 Li-Ion BATTERY PACK 7.

4 V/980 mAh Li-Ion battery pack. 13 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 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.



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Some options may not available in some countries. Please ask your dealer for details. D CHARGERS · BC-173 DESKTOP CHARGER + BC-174E AC ADAPTER Used for regular charging of battery pack. Charging time: approx. 10 hours · BC-162 DESKTOP CHARGER + BC-145 AC ADAPTER Used for rapid charging of battery pack. Charging time: approx. 2 hours.

D BELT CLIPS · MB-109 BELT CLIP The same as supplied with the transceiver. · HM-165 SPEAKER-MICROPHONE Full sized speaker-microphone including an alligator clip to attach the microphone to your shirt, collar, etc. The HM-165 meets IPX7 requirements for waterproof protection. · FA-SC58V ANTENNA * Once the item has been dropped, the IP rating cannot be guaranteed because of possible damage to the case or the waterproof seal. D OTHER OPTIONS 29 < Intended Country of Use > AT FI IT PL GB RO 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*

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