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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-M71. You'll find the answers to all your questions on the ICOM IC-M71 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-M71
User guide ICOM IC-M71
Operating instructions ICOM IC-M71
Instructions for use ICOM IC-M71
Instruction manual ICOM IC-M71

ICOM

INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER

IC-M71

Icom Inc.

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Manual abstract:

This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement. 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 inoperable due to salt crystallization. NOTE: DO NOT wash the transceiver in water if there is any reason to suspect the waterproofing may not be effective. @@"MAYDAY MAYDAY MAYDAY." 2. "THIS IS ..

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

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....." (your position) 5.

State the nature of the distress and assistance required. 6. @@@@@@In addition, the new speaker grill structure with a water self-draining function is helpful for draining water or seawater easily. IMPORTANT READ ALL INSTRUCTIONS pletely before using the transceiver. carefully and com- Dualwatch and tri-watch functions Convenient functions that allow you to monitor the distress channel (Ch 16) while receiving one other channel of your choice (dualwatch), or while receiving one other channel of your choice and the call channel (tri-watch). See p. 16 for details. SAVE THIS INSTRUCTION MANUAL--This instruction manual contains important operating instructions for the IC-M71. Large, easy-to-read LCD EXPLICIT DEFINITIONS DEFINITION Personal injury, fire hazard or electric shock RWARNING may occur. CAUTION NOTE iii Equipment damage may occur.

If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. WORD With the generous dimensions of 22.5(H) × 31.5(W) mm, the IC-M71's function display is easy to read and shows operating conditions at a glance.

Backlighting and contrast can be adjusted to suit your preferences. The volume knob is on top of the radio, while the channel buttons are on the front panel. This allows for convenient, one-handed operation. Simple operation PRECAUTION 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. 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. The IC-M71 employs submersible construction (1.5 m depth for 30 min.). However, once the transceiver has been dropped, waterproofing cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, etc. BE CAREFUL! NEVER connect the transceiver to a power source other than the BP-245.

Such a connection will ruin the transceiver. in areas with temperatures below 15°C or above +55°C. AVOID using or placing the transceiver in direct sunlight or 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. 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 IN CASE OF EMERGENCY ...

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33 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) 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 near the transceiver or be 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.

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 When your craft is equipped with a VHF FM transceiver, 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. This license includes the call sign which is your craft's identification for radio purposes. 1 2 SUPPLIED ACCESSORIES AND ATTACHMENTS I Attachments D Flexible I Supplied accessories The following accessories are supplied: Qty.

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q Handstrap ...

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..... 1 w Battery charger ...

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1 u Flexible antenna .....
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*. 1 *Not supplied with some versions. q w e antenna Connect the supplied flexible antenna to the antenna connector. CAUTION: Transmitting without an antenna may damage the transceiver. NEVER HOLD by the antennNNEL GROUP INDICATOR (p. 8) "USA*" appears when U.S.A.; "INT" appears when International channel group is selected. *Available with the UK versions only.*
!3 TRANSMIT POWER INDICATORS (p. 9) · "LOW" appears when low power is selected. · "MID" appears when middle power is selected. · No indication appears when high power is selected. !4 TRANSMIT INDICATOR (p.
9) Appears during transmit. !5 BUSY INDICATOR (pgs. 9, 10) Appears when a signal is received or squelch is open. i CHANNEL NAMING · Indicates or scrolls operating channel name or comment. (p.
13) · In the SET mode, indicates or scrolls the selected item. (pgs. 1722) o LOCK INDICATOR (p. 10) Appears when the lock function is activated. !0 ATIS INDICATOR (p. 8) Appears when the channel group, which ATIS function is activated, is selected. · Available with the German anransmitting. - Channel 70 cannot be used for transmission. y Release [PTT] to receive. 9 4 BASIC OPERATION I Call channel programming The call channel key is used to select

Channel 16 by default (depending on versions), however, you can program your most often-used channel in each channel group for quick recall.

q Push and hold [DIAL] for 1 sec. several times to select the desired channel group (INT, USA, ATIS) to be programmed. w Push and hold [16·C] for 1 sec. to select the call channel. · "CALL" and call channel number appear. I Lock function This function electronically locks all keys (except for [PTT], [ ] and [H/L·LOCK]) to prevent accidental channel changes and function access. Push [H/L·LOCK] for 1 sec. to turn the lock function ON or OFF. Push for 1 sec. e Push and hold [16·C] again for 3 sec.
(until a long beep changes to 2 short beeps) to enter call channel program- Appears while the lock function is in use. ming condition. · Call channel number to be programmed blinks. @@See p. 19 for details of the monitor switch action.
@@to activate the monitor func" appear and audio is emitted. @@@@@@@@@@@@@@q Select an operating channel other than Channel 16 or 70. @@@@Set the code in the SET mode. In order to understand each other, all transceivers in your group must use the same scramble code, as well as the same scrambler unit. See p.
@@The backlighting can be turned OFF in the SET mode. (p. @@@@@@There is no need to push [PTT]. @@@@· The VOX gain and VOX delay can be set on the SET mode. (p. @@@@@@These defaults can be changed, if desired. @@The opening comment appears each time the IC-M71 is powered ON. @@@@The IC-M71 emits a vibrating noise when this function is being used. @@to drain water, regardless of [VOL] control setting.
@@@@@@@@@The transceiver has a priority scan setting and normal scan setting.

@@@@(p. 18) Set the TAG channels (scanned channel) before scanning. @@Choose priority or normal scan on the SET mode. (p. @@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. 14 SCAN OPERATION 5 I Setting TAG channels For more efficient scanning, add desired channels as TAG channels or clear the TAG for unwanted channels. Untagged will be skipped during scanning. TAG channels can be assigned to each channel group (USA, INT, ATIS) independently.
q Select the desired channel to set as a TAG channel. Y Z w Push and hold both [Y] and [Z] for 1 sec. to set the displayed channel as a TAG channel. ·" " appears in the function display. I Starting a scan Set the priority scan function, scan resume timer and auto scan function in advance, using the SET mode. (pgs. 18, 19) q Make sure the desired channel group (e.g., INT, USA, ATIS) is selected. Move between channel groups by repeatedly pushing [DIAL] for 1 sec. at a time. w Push [SCAN·DUAL] to start priority or normal scan. · "SCAN" blinks in the function display. · "16" appears on the comment indicator during priority scan. · When a signal is received, scan pauses until the signal disappears or resumes after pausing 5 sec. according to scan resume timer setting. (Channel 16 is still monitored during priority scan.) YZ · Push [Y]/[Z] to check the scanning TAG channels, change the scanning direction or resume the scan manually. 5 Y e To cancel the TAG channel setting, push and hold both [Y] Z and [Z] for 1 sec. ·" " disappears.

Clearing All Tagged Channels in the Selected Channel Group Y Z While pushing and holding both [Y] and [Z], turn power ON to clear all TAG channels setting in the channel group. e To stop the scan, push [SCAN·DUAL]. · "SCAN" disappears. · Pushing [PTT], [16·C] or [DIAL] also stops the scan. [Example]: Starting a normal scan. Scan starts Push When receiving a signal, "SCAN" indication blinks and audio is emitted. Push to stop the scan "SCAN" indication blinks 15 6 DUALWATCH/TRI-WATCH (except Dutch versions) I Operation q Select the desired operating channel. w Push [SCAN·DUAL] for 1 sec. to start dualwatch or triwatch (depending on the SET mode setting; p. 19).
· "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. I Description Dualwatch monitors Channel 16 while you are receiving another channel; tri-watch monitors Channel 16 and the call channel while receiving another channel. DUALWATCH/TRI-WATCH SIMULATION Call channel e To cancel dualwatch/tri-watch, push [SCAN·DUAL] again.
[Example]: Operating tri-watch on INT channel 07. Push for 1 sec. Dualwatch Tri-watch Tri-watch starts. Signal is received on the call channel. · If a signal is received on Channel 16, dualwatch/tri-watch pauses on Channel 16 until the signal disappears.
· If a signal is received on the call channel during tri-watch, tri-watch becomes dualwatch until the signal disappears. · To transmit on the selected channel during dualwatch/triwatch, push and hold [PTT]. A signal receive on Channel 16 always takes priority. Tri-watch resumes after the signal disappears. 16 SET MODE I SET mode programming SET mode is used to change the condition of 17 transceiver functions: beep tone function, scan type, scan resume timer, auto scan function, dual/tri-watch function, monitor key action, backlighting function, LCD contrast selection, auto power save function, self check function, battery voltage indication, squelch sensitivity, channel name scroll type, scroll speed, scrambler code, VOX gain and VOX delay.

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7 D SET mode operation q Turn power OFF. w While pushing and holding [the SET mode.], turn power ON to enter · "BEEP" (Beep tone function setting) appears. YZ e Push [ ], or push [ ]] and [Y]/[Z] to select the desired item. YZ r Push [Y]/[Z] to select the desired condition of the item.

t To exit the SET mode, push [16·C]. Auto scan start function Dual/Tri-watch 6 7 D SET MODE ITEMS Beep tone* Scan type Scan resume timer VOX delay Monitor key action Display backlight LCD contrast Power save function VOX gain : Push [ ], or while pushing and holding [ ], push [Y] : While pushing and holding [ ], push [Z] *Starting item Availability may differ according to versions. Not available with Dutch versions. Voice scrambler code Scroll speed Channel name scroll type Squelch sensitivity Battery voltage indication Self-check function 17 7 SET MODE I SET mode items D Beep tone function · ON : A fixed beep sounds (default) · US : The preset beeps (e.g. @@@@When ON is selected, the scan pauses for 5 sec. @@Normal scan searches all TAG channels in the selected channel group. @@See p. @@@@· The backlight is automatically turned OFF after 5 sec. @@@@The squelch is held open while continuously pushing and holding [ ].

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(p. 30) The self check function informs you in case a problem is found with the radio. Self check automatically and quickly runs through its diagnostic steps each time the radio is turned ON. Afterwards, the radio switches to normal operation mode. D Self check function Battery voltage error Self check OFF (default) Temperature error Push Self check ON " Water intrusion " SET MODE D Battery voltage indicator " " D Channel name scroll type " 7 " This function controls display or non-display settings of the connected battery pack's voltage when the power is ON.

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· The voltage of the connected battery pack is displayed for 2 sec. after power is turned ON. Selects the channel name/comment scroll type from 1 and 2. · 1: The first 7 characters are displayed for 1 sec. (approx.) then scrolls. When the channel name/comment is 7 character or less, it does not scroll (default). · 2: The channel name/comment scrolls regardless of the number of characters after no name/comment (blank) is indicated for 1 sec. Push Voltage indication OFF (default) Voltage indication ON Scroll type 1 (default) Push Scroll type 2 7 " D Squelch sensitivity function " " When this function is turned ON (local), blocking against noise is improved and the squelch is not easily affected by noise. D Scrolling speed · 1: Scrolls 3.

33 characters in a second. · 2: Scrolls 2.5 characters in a second. · 3: Scrolls 2 characters in a second. " Selects the channel name/comment scroll speed. Push Squelch sensitivity OFF (default) Squelch sensitivity ON Push Scroll speed 1 (default) Scroll speed 3 21 7 SET MODE " D VOX delay " " D Voice scrambler code " (available with some versions only) There are 32 codes (1 to 32) available for programming. In order to understand each other, all transceivers in your group must share the same scrambler code. Sets the VOX delay timer (0.5 to 3.0 sec.
in 0.5 sec. steps) so that the transceiver keeps on transmitting after you stops speaking. Push Push Scramble code 1 (default) Scramble code 32 VOX delay 1.0 (default) VOX delay 3.
0 D VOX gain " " Adjusts the VOX gain level from 1 (low sensitivity) to 6 (high sensitivity) when speaking with the optional headset. Push VOX gain 1 (default) VOX gain 6 22 BATTERY CHARGING I Battery cautions Misuse of Lithium-ion batteries may result in the following hazards: smoke, fire, or battery rupture. Misuse can also cause other battery damage or degradation of battery performance. · R DANGER! Use and charge only specified Icom battery pack with Icom transceiver. Only Icom battery pack is tested and approved for use with Icom transceiver.
Using thirdparty or counterfeit battery packs may cause smoke, fire, or cause the battery to burst. 8 · R DANGER! DO NOT expose the battery to rain, snow, seawater, or any other liquids. Do not 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 a rupture or 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. · 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 specified 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. · WARNING! Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored 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. 7 8 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. · R DANGER! NEVER use or leave battery pack in areas with temperatures above +60°C.
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. 23 8 BATTERY CHARGING · 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 specified temperature range for the transceiver (15°C to +55°C) and the battery itself (20°C to +60°C).
Using the battery out of its specified temperature range will reduce the battery's performance and battery life. Please note that the specified temperature range of the battery may exceed that of the transceiver. In such cases, the transceiver may not work properly because it is out of its operating temperature range. · CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +45°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 battery indicator shows half-capacity, then keep it safely in a cool dry place with the temperature between 20°C to +25°C. 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 specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture. · WARNING! NEVER insert the battery and 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 specified temperature range: ±0°C to +45°C.

Icom recommends charging the battery at +20°C. The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced. 24 BATTERY CHARGING 8 I Supplied battery charger D BC-166 installation · To a desktop Supplied screws · To a wall D Charging q Connect the AC adapter as shown below. w Insert the battery pack with/without the transceiver into the charger.

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· The charge indicator lights orange. Supplied screws q e Charge the battery pack approx. 11 hours, depending on the remaining power condition. · The charge indicator lights green when charging is complete. e w NOTE: The battery charger, BC-166, has charging timer.
The timer stops the charging process after 14 hours (approx.). 8 Transceiver Turn the transceiver power OFF during charging. Eyelet: Use a rubber band to secure the transceiver, if desired. · For added stability Battery pack Charger indicator AC adapter 25 8 BATTERY CHARGING I Optional battery chargers D AD-114 installation qConnect both the 3-pin and 10-pin connectors of the charger to the AD-114 desktop charger adapter's plug.
wInstall the adapter into the charger in the direction of the arrow, then use the supplied 2 screws to secure the charger adapter to the charger. Desktop charger adapter Transceiver Turn power OFF D Rapid charging with the BC-119N+AD-114 The optional BC-119N provides rapid charging of battery packs. The following options are additionally required. · AD-114 charger adapter · An AC adapter (BC-145) or the DC power cable (OPC515L/CP-17L). 10-pin connector 3-pin connector Battery pack Supplied screws AD-114 charger adapter is installed in BC-119N.
AC adapter (Not supplied with some versions.) Optional OPC-515L (for 13.8 V power source) or CP-17L (for 12 V cigarette lighter socket) can be used instead of the AC adapter. 26 BATTERY CHARGING 8 D Rapid charging with the BC-121N+AD-114 The optional BC-121N allows up to 6 battery packs to be charged simultaneously. The following options are additionally required. · Six AD-114 charger adapters · An AC adapter (BC-157) or the DC power cable (OPC-656) Turn power OFF Transceiver 8 AC adapter (Purchase separately) Battery pack AD-114 charger adapters are installed in each slot. DC power cable (OPC-656) (Connect with the DC power supply; 13.8 V/at least 7 A) 27 9 OPTIONAL SWIVEL BELT CLIP I Detachment Turn the transceiver upside down in the direction of the I Attachment q Screw the base clip to the back of the transceiver using the two screws (supplied), as shown at right. Supplied screws arrow and pull out from the belt clip. w Clip the belt clip over your belt and insert the transceiver.

e Once the transceiver is locked in place, it swivels. R CAUTION!: HOLD THE TRANSCEIVER TIGHTLY WHEN HANGING OR DETACHING THE TRANSCEIVER FROM THE BELT CLIP. Otherwise the transceiver may not be attached to the belt clip or swivelled properly if the transceiver is accidentally dropped and the base clip is scratched or damaged. 28 OPTIONAL SPEAKER-MICROPHONE I HM-125 descriptions Alligator type clip To attach the speaker-mic. to your shirt or collar, etc. PTT switch Transmits during push. Receives during release. Microphone Speaker 10 I Attachment Insert the speaker-mic connector onto the [SP MIC] connector and carefully screw it tight, as shown in the diagram below. Be careful not to cross-thread the connection. Set the triangle mark to the front side.
CAUTION: Attach the speakermicrophone's connector securely to prevent accidental dropping, or water intrusion in the connector. Detaching: Pull up the cap in the direction of the arrow to detach it. Attaching: Attach the cap in the direction of the arrow completely. Turn the transceiver power OFF when connecting the HM-125. 9 10 NEVER immerse the connector in water.
@@@@@@@@Water will not get into the transceiver even if the cover is not attached; however, the terminals (pins) will become rusty, or the transceiver will function abnormally if the connector has become wet. 29 11 No sound speaker. TROUBLESHOOTING POSSIBLE CAUSE SOLUTION · Recharge the battery pack. · Check the connection to the transceiver. · Set squelch to the threshold point.
· Rotate [VOL] to set a suitable level. · Push and hold both [16·C] and [H/L·LOCK] to drain water from the speaker. · Dry [SP MIC] connector. REF. pgs. 25-27 p. 3 p. 11 p. 9 p. 12 -- pgs.

8, 9, 31 pgs. 2527 -- p. 9 p. 10 p. 15 p. 18 -- PROBLEM The transceiver does not · The battery is depleted. turn ON. · Bad connection to the battery pack. from the · Squelch level is too tight. · Volume level is too low.
· Speaker has been exposed to water. @@or high power can not be only. selected. · The battery is exhausted. · Recharge the battery pack.
· The battery is overcharged. · The output power is set to low. The displayed channel · Lock function is activated. cannot be changed. Scan does not start. No beeps. Self check error. (Temperature) Self check error. @@· Beep tones are turned OFF. · Verify the battery voltage is correct. · Push [H/L·LOCK] to select high power. · Push [H/L·LOCK] for 1 sec. to cancel the function. · Set the desired channels as "TAG" channels. @@while.

@@· The connected battery pack's voltage is more · Verify the battery voltage is correct. than 11 V. · Push [ ] and [H/L·LOCK] to deactivate the VOX function. · Set the VOX gain to lower sensitive value. · Recharge the battery pack. -- p. 12 p. 22 pgs. 2527 Transmitting continuously · Ambient noise is too loud. while not speaking when using VOX function.
"CHARGE" comment blinks · The connected battery is depleted. 30 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 CH Receive 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 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 12 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 *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.

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*2 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. · 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.

650 156.700 156.750 156.800 156.850 156.900 156.950 157.000 157.000 157.050 Receive 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. 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 11 12 157.

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 *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. 31 13 D GENERAL SPECIFICATIONS D RECEIVER : TX 156.000161. 450 MHz RX 156.000163.425 MHz : 16K0G3E : Specified Icom's battery pack only : Double-conversion superheterodyne · Sensitivity (20 dB SINAD) : 2 dBμ emf typical · Squelch sensitivity : 6 dBμ emf typical (at threshold) · Intermodulation rejection ratio: 68 dB · Spurious response rejection ratio: 70 dB · Adjacent channel selectivity : 70 dB · Audio output power : Internal speaker 0.6 W typical at 10% distortion with an External speaker 8 load 0.2 W at 10% distortion with an 8 load · Frequency coverage · Receive system · Mode · Power supply requirement · Current drain (at 7. 2 V DC; approx.): TX High (at 6 W) 1.7 A TX Mid. (at 3 W) 1.3 A TX Low (at 1 W) 0.7 A RX Max. audio 400 mA (internal speaker) 200 mA (external speaker) · Useable temperature range : 15°C to +55°C · Frequency error : ±1.5 kHz · Antenna connector : SMA (50 nominal) · Dimensions : 52.5(W) × 125(H) × 30(D) mm (Projections not included) · Weight (with BP-245) : Approx. 280 g D TRANSMITTER · Output power (at 7.

5 V DC) : 6 W* (High), 3 W* (Middle) and 1 W* (Low) *1 W and 0.5 W only for German versions · Modulation system · Max. frequency deviation · Adjacent channel power · Spurious emissions : Variable reactance frequency modulation : ±5 kHz : 70 dB : 0.25 μW All stated specifications are subject to change without notice or obligation. 32 OPTIONS D BATTERY CASE AND PACK · BP-245 Li-Ion BATTERY PACK 7.4 V/2000 mAh Li-Ion battery pack. 14 D DC CABLES · CP-17L CIGARETTE LIGHTER CABLE Charges the battery pack through a 12 V cigarette lighter socket. (For BC-119N) · OPC-515L/OPC-656 DC POWER CABLES Charges the battery pack using 13.8 V power source instead of the AC adapter. OPC-515L: For BC-119N OPC-656 : For BC-121N D CHARGERS · BC-119N DESKTOP CHARGER + AD-114 CHARGER ADAPTER + BC-145 AC ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger depending on versions. Charging time: approx. 3 to 4 hours · BC-121N MULTI-CHARGER + AD-114 CHARGER ADAPTER (6 pcs.) + BC-157 AC ADAPTER For rapid charging of up to 6 battery packs (six AD-114's are required) simultaneously. An AC adapter should be purchased separately.

Charging time: approx. 3 to 4 hours. · BC-166 DESKTOP CHARGER + BC-147E AC ADAPTER Used for regular charging of battery pack. The same as supplied with the transceiver. Charging time: approx.

11 to 12 hours D OTHER OPTIONS · HM-125 SPEAKER-MICROPHONE Full sized waterproof (IPX7; 1m/30 min.) speaker-microphone. Includes an alligator clip to attach the speaker mic to your shirt, collar, etc. · HS-94/HS-95/HS-97 HEADSET + OPC-1392 HEADSET ADAPTER HS-94: Ear-piece type HS-95: Neck-arm type HS-97: Throat microphone *These headsets and headset adapter are non-waterproof. D BELT CLIPS · MB-103 BELT CLIP The same as supplied with the transceiver. · MB-86 SWIVEL BELT CLIP Belt clip for swivel type. · FA-S64V FLEXIBLE ANTENNA Same as that supplied with the transceiver. 13 14 Available or applicable options may differ according to countries. Ask your authorized dealer for details. 33 <Intended Country of Use> I GER I FRA I ESP I SWE I AUT I NED I POR I DEN I GBR I BEL I ITA I NOR I FIN I IRL I LUX I GRE I SUI A-6480D-1EU-w Printed in Japan © 2006 Icom Inc.

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