



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-M33. You'll find the answers to all your questions on the ICOM IC-M33 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-M33  
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INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER  
**IC-M33**

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 TRANSCIEVER 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. 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. 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. @@@@ @carefully and com- Floating on water The IC-M33 floats on fresh or salt water even when the supplied accessories are attached. · When third-party battery pack, strap, antenna, etc. is used, it may sink. · The battery contacts may be prone to rusting if the transceiver is kept floating in fresh or salt water. SAVE THIS INSTRUCTION MANUAL--This instruction manual contains important operating instructions for the IC-M33. 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 dimensions of 16(H) × 32(W) mm, the IC-M33's function display is easy to read and shows operating conditions at a glance. Backlighting and contrast can be adjusted to suit your preferences. Simple operation 9 large buttons on the front panel provide user-friendly operation. The independent volume and channel buttons are located on the front panel for convenient one-hand operation.

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 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 transceiver may be cracked, or the waterproof seal damaged, etc. 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. MAKE SURE NEVER connect the transceiver to a power source other than the BP-251 (option) or BP-252. 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. 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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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.



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I 2 Handstrap SUPPLIED ACCESSORIES AND ATTACHMENTS I Supplied accessories Battery pack Battery charger AC adapter (with 2 screws) (Not supplied with some version) D Handstrap Pass the handstrap through the loop on the side of the transceiver as illustrated at right. This facilitates carrying. Antenna Belt clip D Belt clip Attach/detach the belt clip to the transceiver as illustrated below. To attach the belt clip To detach the belt clip I Attachments D Flexible antenna Connect the supplied flexible antenna to the antenna connector. CAUTION! · NEVER carry the transceiver by the antenna. · Transmitting without an antenna may damage the transceiver. 2 w Be careful! Not to break your nails.

q SUPPLIED ACCESSORIES AND ATTACHMENTS i Battery pack To remove the battery pack: Turn the screw counterclockwise one quarter turn, then pull the battery pack in the direction of the arrow as shown below. To attach the battery pack: Insert the battery pack in the IC-M33 completely, then turn the screw clockwise one quarter turn. NEVER remove or 2 PTT SWITCH [PTT] Push and hold to transmit; release to receive. (p. 10) 3 5 3 PANEL DESCRIPTION I Function display q w e r t y u i o !0 !1 !2 !5 !4 !3 t LOCK INDICATOR (p. 12) Appears while the lock function is activated. y BATTERY INDICATOR Indicates remaining battery power. Indication Battery level Full Middle Charging required No battery !8 !7 !6 blinks when the battery is over charged. blinks when the battery is exhausted. u SCAN INDICATOR (p. 15) Blinks while scanning. i DUALWATCH/TRI-WATCH INDICATORS (p. 16) "DUAL" appears during dualwatch; "TRI" appears during tri-watch. o DUPLEX INDICATOR Appears when a duplex channel is selected. @@(p. 16) Indicates the set mode item while in set mode. (p. 17) Indicates the squelch level while squelch setting. (p. 12) Indicates the volume push [Y]/[Z] to adjust the volume level.

@@@q Push and hold [CH] for 1 sec. @@(p. 9) w Push and hold [C] (16) for 1 sec. @YZ q Push [VOL], then adjust the volume level with [Y]/[Z]. · "VOL" indicator starts blinking. · There are 31 volume levels and OFF.

@@@@@The automatic backlighting can be activated in set mode. (p. @@@@See p. 5 for details of the monitor key action.

@@@@@The IC-M33 emits a vibrating beep when this function is being used. @to drain water, regardless of volume level setting. @@@@The transceiver has priority scan and normal scan. In addition, auto scan function is available for standby convenience. This function can be activated depending on the setting in set mode.

(p. 18) Set the TAG channels (scanned channels) before scanning. @@Choose priority or normal scan in set mode. (p. 18) PRIORITY SCAN CH 01 CH 02 NORMAL SCAN CH 01 CH 02 CH 88 CH 16 CH 03 CH 88 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. 14 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. SCAN OPERATION 5 I Setting TAG channels For more efficient scanning, set the desired channels as TAG channels or clear the TAG setting from unwanted channels. Channels that are not tagged will be skipped during scanning. TAG channels can be assigned to each channel group (U.S.A., International and ATIS) independently. q Push and hold [CH] for 1 sec.

several times to select the desired channel group, if desired. w Select the desired channel to be set as a TAG channel. e Push and hold [TAG] (FAV) for 1 sec. to set the displayed channel as a TAG channel. · " " appears in the function display. r To cancel the TAG channel setting, push and hold [TAG] (FAV) for 1 sec. · " " disappears. Clearing (or setting) all tagged channels While pushing and holding [TAG] (FAV), 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.) I Starting a scan Set the priority scan function, scan resume timer and auto scan function in advance, using set mode.

(p. 18) q Push and hold [CH] for 1 sec. several times to select the desired channel group, if desired. w Push [SCAN] to start priority or normal scan. · "SCAN" blinks in the function display.

· "16" appears on the sub channel readout during priority scan. · When a signal is received, scan pauses until the signal disappears or resumes after pausing 5 sec. according to the scan resume timer setting. (Channel 16 is still monitored during priority scan.) · Push [Y]/[Z] to check which channels have been set as TAG channels, change the scanning direction or resume the scan manually.

5 e To stop the scan, push [SCAN]. · "SCAN" disappears. · Pushing [PTT], [16], [CH] or [FAV] also stops the scan. [Example]: Starting a normal scan. Push Scan starts When a signal is received Push to stop the scan 15 6 DUALWATCH/TRI-WATCH (Except Holland version) I Operation q Select Dualwatch or Tri-watch in set mode. (p. 19) w Select the desired channel. e Push and hold [DUAL] (SCAN) for 1 sec. to start Dualwatch or Tri-watch (depending on 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. I 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] again. [Example]: Operating Tri-watch on INT channel 07. Tri-watch starts. Signal is received on call channel. Dualwatch Tri-watch · 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]. Tri-watch resumes after the signal disappears. Signal received on Channel 16 takes priority. 16 SET MODE I Set mode programming Set mode is used to change the settings for 11 transceiver 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 and low fix function\*.



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*\*Appears only when the optional battery case is attached; Not available with German version.*

*7 D Set mode operation q Turn power OFF. w While pushing [SQL], turn power ON to enter set mode. · "bP" appears. YZ e Push [SQL] or [Y]/[Z] while pushing and holding [SQL] to select the desired item, if necessary. YZ r Push [Y]/[Z] to select the desired setting of the item.*

*t To exit set mode, push [16]. 6 7 D SET MODE ITEMS · Low fix\* (The display shows the current settings, and the selected function is displayed in the dotted circle.) · Beep tone · Priority scan · Scan resume timer Starting item · Squelch sensitivity : Push or + [Y] \*Appears only when the optional battery case is attached; Not available with German version. Not available with Holland version. @@@@ 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. @@@@ To close the squelch, push any key. D LCD contrast setting "LC" Set the LCD contrast level from High contrast or Low contrast.*

*NOTE: The LCD contrast level between High contrast and Low contrast makes no difference indoors. Push Push Push setting (default) Hold setting High contrast (default) Low contrast 19 7 SET MODE D Power save function · ON "PS" D Low fix function "LF" The power save function reduces current drain by deactivating the receiver circuit for preset intervals. : The power save function is turned ON. The power save function will activate when no signal is received, and no operation is performed for 5 sec. · OFF : The power save function is turned OFF. (Appears only when the optional battery case is attached. Not available with German version.) When this function is turned ON, the output power is fixed to low except for channel 16. Push Push Power save ON (default) Power save OFF Low fix function OFF (default) Low fix function ON D Squelch sensitivity "SS" When this function is turned ON, rejection of noise is improved so that the squelch is not easily affected by noise. Push Squelch sensitivity OFF (default) Squelch sensitivity ON 20 BATTERY CHARGING I Battery caution Misuse of Lithium-Ion batteries may result in the following hazards: smoke, fire, or the battery may rupture.*

*Misuse can also cause damage to the battery or degradation of battery performance. R DANGER! Use and charge only specified Icom battery pack with Icom radios or Icom charger. Only Icom battery pack is tested and approved for use and charge with Icom radios or Icom charger. Using third-party or counterfeit battery packs or charger may cause smoke, fire, or cause the battery to burst. 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 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 sunheated 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, 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 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. 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. 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 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 +40°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.*

*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. 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. CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +50°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 +20°C.*



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22 BATTERY CHARGING 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 I 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.

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

). AC adapter Supplied screws BC-173 23 8 BATTERY CHARGING I 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. @@@@ to your shirt or collar, etc.

PTT switch Transmits during push. Receives during release. @@Then, 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. IMPORTANT: KEEP the transceiver's [SP MIC] connector 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 has become 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). NEVER immerse the connector in water.

@@@@@q w 25 10 TROUBLESHOOTING POSSIBLE CAUSE SOLUTION REF. p. 23 p. 3 p. 12 p. 11 p. 13 pgs. 8, 9, 27 p. 23 -- p. 10 PROBLEM The transceiver does · The battery is exhausted.

· Recharge the battery pack. not turn ON. · The battery pack is not attached correctly. · Attach the battery pack correctly. No sound from speaker. · Squelch level is too high. · Volume level is too low. · Speaker has been exposed to water. · Set squelch to the threshold point. YZ · Push [Y]/[Z] after pushing [VOL] to set a suitable level. · Drain water from the speaker. Transmitting is impossi- · Some channels are for low power or re- · Change channels. ble, or high power can ceive only. · Recharge the battery pack. · The battery is exhausted. not be selected. · Verify the battery voltage is correct. · The battery over charged. · Push [H/L] to select high power. · The output power is set to low.

The displayed channel · Lock function is activated. cannot be changed. Scan does not start. No beeps. Battery voltage error · "TAG" channels are not programmed. · Beep tone function is turned OFF. · Push and hold [LOCK] (H/L) for 1 sec. to p. 12 cancel the function. · Set the desired channels as "TAG" channels. p. 15 · Set the beep tone to ON (Fix Beep/User p. 18 Beep) in set mode. -- · The connected battery pack's voltage is · Verify the battery voltage is correct. more than 11 V.

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 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 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 \*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 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.



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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. 27 12 SPECIFICATIONS ÷ RECEIVER : Transmit 156.000/161.450 MHz Receive 156.000/163.

425 MHz : FM (16K0G3E) : 25 kHz : BP-251 and BP-252 only : TX High (5 W) 1.5 A TX Low (1 W) 0.7 A Max. audio 0.2 A Power save 20 mA typical :  $\pm 1.5$   
kHz : 15°C to +55°C : 62 (W)  $\times$  141.5(H)  $\times$  43(D) mm : Approx. 305 g : Double-conversion superheterodyne · Sensitivity (20 dB SINAD) : 2 dB $\mu$  emf typical  
· Squelch sensitivity : 6 dB $\mu$  emf typical (at threshold) · Intermodulation rejection ratio : 68 dB · Spurious response rejection ratio : 70 dB · Adjacent channel  
selectivity : 70 dB · Audio output power : 0.2 W at 10% distortion with an 8 load All stated specifications are subject to change without notice or obligation. ·  
Receive system ÷ GENERAL · Frequency coverage · Mode · Channel spacing · Power supply requirement · Current drain (at 7.

4 V DC) · Frequency stability · Useable temperature range · Dimensions (Projections not included) · Weight (incl. BP-252, FA-SC58V and MB-109) ÷  
TRANSMITTER · Output power (at 7.4 V DC) : 5 W (High)\* and 1 W (Low)\* \*1 W (High) and 0.5 W (Low) only for German version. · Modulation system ·  
Max. frequency deviation · Adjacent channel power · Spurious emissions : Variable reactance frequency modulation :  $\pm 5$  kHz : 70 dB : 0.25  $\mu$ W 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 (except 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 D CHARGERS · BC-173 DESKTOP  
CHARGER + BC-174E/BM-95V AC ADAPTER Used for regular charging of battery pack.

An AC adapter is supplied with the charger depending on versions. 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.

\*Not supplied with some versions. D BELT CLIPS · MB-109 BELT CLIP The same as supplied with the transceiver. D OTHER OPTIONS · HM-165  
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.

· FA-SC58V ANTENNA FOR IC-M33 29 <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  
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547-0003, Japan .



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