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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F3162T. You'll find the answers to all your questions on the ICOM IC-F3162T 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-F3162T
User guide ICOM IC-F3162T
Operating instructions ICOM IC-F3162T
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Instruction manual ICOM IC-F3162T

INSTRUCTION MANUAL

VHF TRANSCEIVER

IC-F3162T/S
IC-F3162DT/DS

UHF TRANSCEIVER

IC-F4162T/S
IC-F4162DT/DS

Icom Inc.



The photo shows the 10-key version UHF transceiver.



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Manual abstract:

Equipment damage may occur. If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. SAVE THIS INSTRUCTION MANUAL -- This i Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. LTR is a registered trademark of the E.F. Johnson Company. All other products or brands are registered trademarks or trademarks of their respective holders. PRECAUTIONS R CAUTION! NEVER hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting.

@@@@@@@The transceiver meets IP55* requirements for dust-protection and water jet resistance. However, once the transceiver has been dropped, dustprotection and water jet resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, etc. * Only when the supplied battery pack, flexible antenna and connector cover are attached. R CAUTION! NEVER use non-Icom battery packs/ chargers to prevent the loss of the transceiver's good performance and warranty. DO NOT push [PTT] when not actually desiring to transmit.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below 25°C or above +55°C. The basic operations, transmission and reception of the transceiver are guaranteed within the specified operating temperature range. However, the LCD display may not operate correctly, or show an indication in the case of long hours of operation, or after being placed in extremely cold areas. Icom optional equipment are 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.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 ii VOICE CODING TECHNOLOGY The AMBE+2TM voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166. iii

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.....3132 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 iv 1 Flexible antenna ACCESSORIES Accessory attachments D Flexible antenna Belt clip Connect the supplied flexible antenna to the antenna connector.

Supplied accessories The following accessories are supplied. Battery pack CAUTION: · NEVER HOLD the antenna when carrying the transceiver. · Transmitting without an antenna may damage the transceiver. Connector cover (with screw) 1 ACCESSORIES D Battery pack D Belt clip 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 To attach the battery pack: Slide the battery pack on the back of the transceiver in the direction of the arrow (q), then lock it with the battery release button. · Slide the battery pack until the battery release button makes a 'click' sound. To attach the belt clip: q Release the battery pack if it is attached. w Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound. To release the battery pack: Push the battery release button in the direction of the arrow (w) as shown below. The battery pack is then released. NEVER release or attach the battery pack when the transceiver is wet or soiled.

This may result water or dust getting into the transceiver/battery pack and may result in the transceiver being damaged. To detach the belt clip: q Release the battery pack if it is attached. w Pinch the clip (q), and slide the belt clip in the direction of the arrow (w). w q q Battery pack w Battery release button NOTE: Keep the battery pack terminals clean. It's a good idea to clean the battery pack terminals once a week.

2 1 ACCESSORIES D Connector cover Attach the connector cover when the optional equipment is not used. To attach the connector cover: q Insert the connector cover into the multi-connector. w Tighten the screw. To detach the connector cover: q Unscrew the screw using a phillips screwdriver. w Detach the connector cover for the optional equipment connector.

Multiconnector q w w q Connector cover CAUTION: Attach the connector cover when the optional equipment is not used. Otherwise the terminals of the multi-connector may be shorted by metal object, etc., and this could damage the transceiver. 3 PANEL DESCRIPTION Front panel q w e r t y ! 2 !1 Speaker r DEALER-PROGRAMMABLE KEY [Side1] Desired function can be programmed by your dealer. (p. 6) t PTT SWITCH [PTT] Push and hold to transmit; release to receive. 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 !0 Microphone o i u y DEALER-PROGRAMMABLE KEYS [Side2]/[Side3] Desired function can be programmed independently by your dealer. (p. 6) u 10-KEYPAD (Depending on version) The keypad allows you to enter digits to: · Select memory channels · Select tone channels · Select DTMF codes (during transmit) · Set TX codes · Start up with the password q ROTARY SELECTOR Rotate to select the pre-programmed memory channels or the operating zone. (Depending on the pre-setting) w ANTENNA CONNECTOR Connects the supplied antenna.

(p. 1) e DEALER-PROGRAMMABLE KEY [EMR] Desired function can be programmed by your dealer. (p. 6) i DEALER-PROGRAMMABLE KEYS [P0] to [P3] Desired function can be programmed independently by your dealer. (p. 6) o FUNCTION DISPLAY (p. 5) Displays a variety of information such as an operating channel number/name, Set mode contents, DTMF code, selected function, etc.



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4 2 PANEL DESCRIPTION !0 MULTI-CONNECTOR Connect an optional equipment. Function display q w e r t y u i Connector cover NOTE: Attach the connector cover when the optional equipment is not used. See p.

3 for details. o CALA TXCU TXC SET !1 BUSY/TRANSMIT INDICATOR Lights green while receiving a signal, or when the L squelch is open. Lights red while transmitting. !2 VOLUME CONTROL [VOL] Rotate to turn the power ON/OFF and adjusts the audio level. q SIGNAL STRENGTH INDICATOR Indicates relative signal strength level.

w LOW POWER INDICATOR Appears when low output power is selected. !0 e AUDIBLE INDICATOR Appears when the channel is in the 'audible' (unmute) condition. Appears when the matched signal is received. r COMPANDER INDICATOR Appears when the compander function is activated. t SCRAMBLER INDICATOR Appears when the voice scrambler function is activated.

5 PANEL DESCRIPTION 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Programmable function keys y BELL INDICATOR Appears/blinks when the matched signal is received, according to the pre-programming. u CALL CODE MEMORY INDICATOR Appears when the call code memory is selected. i BATTERY INDICATOR Appears or blinks when the battery power decreases to a specified level. Indication Battery level Full Middle Charging required No battery The following functions can be assigned to [EMR], [Side1], [Side2], [Side3], [P0], [P1], [P2] and [P3] programmable function keys. Consult your Icom dealer or system operator for details concerning your transceivers programming. If the programmable function names are bracketed in the following explanations, the specific key is used to activate the function depends on the programming. CH UP AND DOWN KEYS "UP" "DOWN" Push to select an operating channel. When [Rotary selector] selects "operating channel," this key is not available. Push to select a transmit code channel after pushing [TX Code CH Select]. Push to select a DTMF channel after pushing [DTMF Autodial].

Push to select a scan group after pushing and holding [Scan]. blinks when the battery is over charged. blinks when the battery is exhausted. o ALPHANUMERIC DISPLAY Displays an operating channel number, channel name, Set mode contents, DTMF code, etc. The indication mode can be selected from 1 line or 2 lines. Ask your dealer for details. · In this instruction manual, the LCD illustration is described using the 2 lines indication mode. !0 KEY INDI "T SEL" While in the analog mode operation, push to enter the continuous tone channel selection mode. Then select the desired tone frequency/code setting with [CH Up] or [CH Down]. After the selection, push this key again to set.

While in the digital mode operation*, push to enter the RAN channel selection mode. Then select the desired RAN setting with [CH Up] or [CH Down]. After the selection, push this key again to set. While in the mixed (digital and analog) mode operation*, push to enter the continuous tone channel selection mode. Then select the desired tone frequency/code setting with [CH Up] or [CH Down].

After the selection, push this key to set. After that, the RAN ander function reduces noise components from the transmitting audio to provide clear communication. 10 3 BASIC OPERATION Turning power ON Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. (p. 18) q Rotate [VOL] to turn the power ON.

w If the transceiver is programmed for a start up password, input the digit codes as directed by your dealer. · 10-keypad can be used for password input depending on version. · The keys in the table below can be used for password input. · The transceiver detects numbers in the same block as identical. Therefore "01234" and "56789" are the same. D Battery type selection The battery type must be selected according to the attaching battery type when tuning the transceiver ON. While pushing and holding [Emer] and [PTT], rotate [VOL] to toggle the attaching battery type. · After the display appears, release [Emer] and [PTT]. · "DRY BATT" is displayed for about 3 sec. then "Lo" (low power indicator) appears when the battery case operation is selected.

· "LI-ION" is displayed for about 3 sec. when the Lithium-ion battery operation is selected. · This operation may not be available depending on the pre-setting. Ask your dealer for details. KEY NUMBER P0 P1 P2 P3 (Side1) 0 5 1 6 2 7 3 8 4 9 e When the "PASSWORD" indication does not clear after inputting 6 digits, the input code number may be incorrect. Turn the power off and start over in this case. 11 BASIC OPERATION 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Channel selection Several types of channel selections are available. Methods may differ according to your system set up. NON-ZONE TYPE: To select the desired operating channel: · Push [CH Up] or [CH Down]. · Rotate [ROTARY SELECTOR]*.

- Up to pre-programmed 16 channels can be selected. AUTOMATIC SCAN TYPE: Channel setting is not necessary for this type. When turning power ON, the transceiver automatically starts scanning. Scanning stops when receiving a call. * Depending on the pre-setting.

@ @ @ @ @ @ · Push [Zone Up] or [Zone Down]. @ @ @ @ @ @ @ @ @ @ @ @ See (p. 1) for accessory attachments. Receiving: q Rotate [VOL] to turn the power ON. @ @ @ @ @ @ IMPORTANT: To maximize the audio quality of your signal; 1.

Pause briefly after pushing [PTT]. 2. @ @ @ @ @ @ @ @ @ @ w Push [CH Up] or [CH Down] to select the desired TX code channel.

@ @ @ @ @ @ @ @ @ @ @ @ r Push [CH Up]/[CH Down] to select the desired digit. t Push [TX Code CH Select] to set. The digit to the right will blink automatically. y Repeat r and t to edit all allowable digits. @ @ r Push [CH Up]/[CH Down] to select the desired digit. t Push [TX Code Enter] to set. The digit to the right will blink automatically.

y Repeat r and t to edit all allowable digits. @ @ Up to 8 DTMF channels are available. q Push [DTMF Autodial]-- a DTMF channel appears. w Push [CH Up] or [CH Down] to select the desired DTMF channel. @ @ @ @ @ @ @ @ @ @ (p. @ @ @ @ @ @ @ @ @ @ e Push [P0] several times to select the appropriate item.

@ @ * Appears only when the external VOX unit is connected. Man Down Emergency Call This function requires the optional UT-124R man down unit and can be performed in conventional mode. The man down emergency call function transmits an emergency call automatically when the transceiver has been left in a horizontal position. After the emergency call, the transceiver performs transmission and reception alternately with receiving a signal and emitting audio. When the emergency reset signal is received, the function is cancelled. IMPORTANT: Set an emergency channel individually, to provide certain emergency call operation is recommended. r Push and hold [P0] again to exit set mode. User set mode is also available using a programmable key.



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Please refer to p.

10 [User Set Mode] section for instructions regarding using the key assigned for user set mode. [User Set Mode] is allowed for the quick item selection. Set "Enable" for the often used items with the CS-F3160/F5060 cloning software. Ask your dealer for details. NOTE: [Side2] or [Side3] and [P0] activate while in the user set mode regardless of the assigned key functions.

16 3 BASIC OPERATION Scrambler function The voice scrambler function provides private communication between stations. All versions have a built-in frequency inversion type scrambler; however, an optional rolling or non-rolling type is available as well. Push [Scrambler] to toggle the scrambler function ON or OFF. " " (Scrambler indicator) appears when the function is ON. Priority A channel selection When one of the following operations is performed, the transceiver selects the Priority A channel automatically. · Turning the power ON The Priority A channel is selected each time the transceiver power is turned ON. · Status call The Priority A channel is selected when transmitting a status call. (BIIS operation only) Stun function When the specified ID, set as a kill ID, is received, the stun function is activated. When the kill ID is received, the transceiver switches to the password required condition. Entering of the password via the keypad is necessary to operate the transceiver again in this case.

Forced Narrow function Depending on the pre-setting, the Forced Narrow function is turned ON or OFF when the transceiver power is ON while pushing and holding both [P1] and [PTT]. While the function is activated, the channel width becomes Narrow regardless of the channel setting, the [Wide/Narrow] key operation, repeater setting, and PC control command. If the Forced Narrow function is pre-set by your dealer, the channel width becomes Narrow without your operation as above. Automatic Key Lock function When [Lock] is assigned to any key and the Automatic Key Lock timer is pre-programmed* by your dealer, the key lock function can be automatically turned ON after the specified time period has passed without operation during standby condition.

While the lock function is ON, push and hold [Lock] for 1 sec. to turn the function OFF. *When "0" is programmed, this function is not available. 17 BATTERY CHARGING 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 packs with Icom radios or Icom charger.

Only Icom battery packs are 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. 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 · R DANGER! @@Never charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using. The battery is not waterproof.

· R DANGER! @@ · R DANGER! NEVER solder the battery terminals or NEVER modify the battery pack. @@ · R DANGER! Use the battery only with the transceiver for which it is specified. @@ · R DANGER! @@@@ · WARNING! @@@@ · WARNING! @@DO NOT hammer or otherwise impact the battery. @@Battery damage may not be visible on the outside of the case. @@ · R DANGER! NEVER use or leave battery packs 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 in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life. 18 4 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! NEVER 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 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! NEVER charge the battery outside of the specified temperature range: BC-160 (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! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery to rupture. · CAUTION! Always use the battery within the specified temperature range for the transceiver (25°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 +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 remaining capacity is about half, then keep it safely in a cool dry place with the temperature range as below: 20°C to +50°C (within a month) 20°C to +35°C (within three months) 20°C to +20°C (within a year) 19 BATTERY CHARGING 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Optional battery chargers D Rapid charging with the BC-160 The optional BC-160 provides rapid charging of the Li-Ion battery pack. Charging period: Approx. 3 hours (with BP232N) The following items are additionally required: · An AC adapter (may be supplied with BC-160 depending on version) or the DC power cable (OPC-515L/CP-17L).

AC adapter (A different type, or no AC adapter is supplied, depending on the version.) D Regular charging with the BC-171 The optional BC-171 provides regular charging of the Li-Ion battery pack. Charging period: Approx.



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10 hours (with BP232N) The following items are additionally required: · An AC adapter (may be supplied with BC-171 depending on version) or the DC power cable (OPC-515L/CP-17L). AC adapter (A different type, or no AC adapter is supplied, depending on the version.) Transceiver Battery Turn power OFF pack Transceiver Battery Turn power OFF pack 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. 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. 20 4 BATTERY CHARGING D Rapid charging with the BC-119N+AD-106 D AD-106 installation The AD-106 charger adapter must be installed into the BC-119N or BC-121N before battery charging. Connect the AD-106 charger adapter and the BC119N/BC-121N as below, then install the AD-106 into the holder space of the BC-119N or BC-121N with the supplied screws. AD-106 Connectors The optional BC-119N provides rapid charging of the Li-Ion battery pack. Charging period: Approx. 3 hours (with BP232N) The following items are additionally required. · AD-106 charger adapter (purchase separately) · An AC adapter (may be supplied with BC-119N depending on version) or the DC power cable (OPC-515L/CP-17L).

Turn power OFF AC adapter (A different type, or no AC adapter is supplied, depending on the version.) Transceiver Battery pack Screws supplied with the charger adapter Plugs * This illustration is described with the BC-119N. 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. AD-106 charger adapter is installed in BC-119N. 21 BATTERY CHARGING D Rapid charging with the BC-121N+AD-106 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 The optional BC-121N allows up to 6 battery packs to be charged simultaneously. Charging period: Approx. 3 hours (with BP-232N) The following items are additionally required. · Six AD-106 charger adapters (purchase separately) · An AC adapter (BC-157) or the DC power cable (OPC-656) Turn power OFF Transceiver Battery pack AC adapter (Purchased separately) AD-106 charger adapters are installed in each slot. IMPORTANT: Battery charging caution Ensure the guide lobes on the battery pack are correctly aligned with the guide rails inside the charger adapter.

(This illustration is described with the BC-160.) Lobes Guide rail DC power cable (OPC-656) (Connect with the DC power supply; 13.8 V/at least 7 A) 22 5 BATTERY CASE Optional battery case (BP-240) When using the optional battery case attached to the transceiver, install 6 × AAA (LR03) size alkaline batteries as illustrated at right. q Unhook the battery cover release hook (q), and open the cover in the direction of the arrow (w). (Fig. 1) w Then, install 6 × AAA (LR03) size alkaline batteries. (Fig.2) · Install the alkaline batteries only. · Be sure to observe the correct polarity. · Do not pin the ribbon under the batteries.

Fig.1 w BP-240 q Fig.2 e Fit the cover in the direction of the arrow (e), then close (r). And hook the battery cover release hook until it makes a 'click' sound (t).(Fig.3) 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. · Never incinerate used battery cells since internal battery gas may cause them to rupture.

· Never expose a detached battery case to water. If the battery case gets wet, be sure to wipe it dry before using it. NOTE: When the optional battery case is attached, the battery type must be selected to "DRY BATT" when turning the transceiver ON. (p. 11) Fig.3 r t e 23 SWIVEL BELT CLIP MB-93 contents Qty.

q Belt clip

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..1 w Base clip

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.....1 q w 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 e Clip the belt clip to a part of your belt. And insert the transceiver into the belt clip until the base clip inserted fully into the groove. To attach q Release the battery pack if it is attached. (p.

2) w Slide the base clip in the direction of the arrow until the base clip is locked and makes a 'click' sound. r Once the transceiver is locked in place, it swivels as illustrated below. Once the transceiver is locked in place, it will swivel 360 degrees. 24 6 SWIVEL BELT CLIP To detach q Turn the transceiver upside down in the direction of the arrow and pull out from the belt clip. CAUTION: HOLD THE TRANSCIEVER TIGHTLY, WHEN HANGING OR DETACHING THE TRANSCIEVER FROM THE BELT CLIP.

Otherwise the transceiver may not be attached to the holder or swivel properly if the transceiver is accidentally dropped and the base clip is scratched or damaged. w Release the battery pack if it is attached. (p. 2) e Pinch the clip (q), and slide the base clip in the direction of the arrow (w). q w 25 SPEAKER MICROPHONE Optional HM-169/170GP description TOP KEY (for HM-170GP only) Desired functions can be programmed by your dealer.

PTT SWITCH Push and hold to transmit; release to receive. GPS ANTENNA (for HM-170GP only) Microphone Speaker Belt clip 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 To attach Attach the connector of the speaker-microphone into the multi connector on the transceiver and tighten the screw. CAUTION: Attach the multi connector snugly, but do not overtighten. A loose connection will allow water intrusion into the connector; an overtightened connector will damage

the connector pins in the transceiver. Turn the transceiver power OFF while connecting the HM-169/170GP. This illustration is described with HM-170GP. NEVER immerse the connector in water. If the connector becomes wet, be sure to dry it BEFORE attaching it to the transceiver. NOTE: The microphone is located at the top of the speaker-microphone, as shown in the diagram above. To maximize the readability of your transmitted signal (voice), hold the microphone approx.

@@(p. @@14 hrs. @@We recommend that the BP-230N charging. An AC adapter is supplied with the charger depending on versions. Charging time: approx. 10 hours when BP-232N is attached. approx. @@·MB-96N/96F leather belt hanger 27 ·BC-119N desktop charger + AD-106 charger adapter + BC-145S ac adapter For rapid charging of battery pack. An AC adapter is supplied with the charger depending on versions. Charging time: approx. 3 hours when BP-232N is attached. ·BC-121N multi-charger + AD-106 charger adapter (6 pcs.) + BC-157 ac adapter For rapid charging of up to 6 battery packs (six AD-106s are required) simultaneously. An AC adapter should be purchased separately. Charging time: approx. 3 hours when BP-232N is attached. ·BC-160 desktop charger + BC-145S ac adapter For rapid charging of battery pack. An AC adapter is supplied with the charger depending on versions.



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Charging time: approx. 3 hours when BP-232N is attached.

D CHARGERS D OPTIONAL UNITS · UT-109R/UT-110R scrambler units Non-rolling type (UT-109R)/Rolling type (UT-110R) voice scrambler unit provides higher communication security. @@@@ · AD-52 earphone adapter Provides clear receive audio in noisy environment. · HM-131SC/HM-159SC speaker-microphone Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt. · HM-169 speaker-microphone Rugged type speaker-microphone. · HM-170GP speaker-microphone GPS speaker-microphone for BIIS mode operation. HS-94/HS-95/HS-97 headset + VS-1SC vox/ptt case HS-94: Ear-hook type HS-95: Neck-arm type HS-97: Throat microphone VS-1SC: VOX/PTT switch box for hands-free operation, etc. · FA-SC56VS/FA-SC57VS/FA-SC73US stubby antennas Shorter VHF or UHF antennas. FA-SC56VS: Frequency range 150162 MHz FA-SC57VS: Frequency range 160174 MHz FA-SC73US: Frequency range 450490 MHz · FA-SC25V/FA-SC55V/ FA-SC25U/FA-SC57U/FA-SC72U flexible antennas VHF or UHF antennas. FA-SC25V: Frequency range 136150 MHz FA-SC55V: Frequency range 150174 MHz FA-SC25U: Frequency range 400430 MHz FA-SC57U: Frequency range 430470 MHz FA-SC72U: Frequency range 470520 MHz · FA-SC61VC/FA-SC61UC cut antennas FA-SC61VC: 136174 MHz FA-SC61UC: 380520 MHz Some options may not available in some countries. Please ask your dealer for details.

28 8 OPTIONS D About VS-1SC vox/ptt case The VS-1SC is a VOX/PTT unit for Icom handheld transceivers, and allows you hands-free operation. An optional headset (HS-94, etc.) is required for operation. · The VOX (Voice Operated Transmission) function starts transmission without pushing PTT switch when you speak into the microphone; then, automatically returns to receive when you stop speaking. VOX gain and delay adjustment q Attach the connector of the VS-1SC into the multi-connector on the transceiver and tighten the screw. · Toggle the VOX/PTT select switch to [VOX]. Features 9-pin Spring-plug type head SP/MIC plug is equipped Water resistant construction Durable construction Equipped with a PTT switch and revolving clip MIC/VOX gain adjusting pot VS-1SC PTT switch w Enter user set mode. (p. 16) e Push [P0] several times to select the "VOX Gain" or "VOX Delay" items. Then, push [Side2] or [Side3] to set the desired level/condition.

r Rotate [VOL] to turn the power OFF to exit user set mode. · VOX Gain The VOX sensitivity level can be adjusted from OFF or 1 to 6 (more sensitive). VOX OFF SET TXCU TXC CALA [Side2] Push [Side3] VOX GAIN 3 SET TXCU TXC CALA Water protection cover VOX/PTT select switch VOX function is OFF VOX gain level 3 (default) 29 SET X TXC SET X TXC OPTIONS 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 · VOX Delay The VOX delay time can be set from 0.5 to 3.0 sec.

(0.5 sec. step) for a convenient interval before returning to receive. VOX DLY0.5 SET TXCU TXC CALA [Side2] Push [Side3] VOX DLY3. 0 SET TXCU TXC CALA 0.5 sec (min.) (default) 3.0 sec (max.) NOTE: MIC/VOX gain can be adjusted via the Adjusting pot using a thin screw driver. SET X TXC SET X TXC 30 9 DOC CE versions of the IC-F3162T/IC-F3162S/ICF3162DT/IC-F3162DS and IC-F4162T/ICF4162S/IC-F4162DT/IC-F4162DS which display the "CE" symbol on the serial number seal, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC. 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. We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan 0168 Düsseldorf 22nd Feb.

2008 Place and date of issue We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan 0168 Düsseldorf 6th Feb. 2008 Place and date of issue Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: Type-designation: VHF TRANSCEIVER Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: Type-designation: UHF TRANSCEIVER iC-f3162t/f3162s Version (where applicable): 136174 MHz 6.25 kHz/12.5 kHz/25 kHz 136174 MHz 6.25 kHz/12.5 kHz/20 kHz Authorized representative name iC-f4162t/f4162s This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 60950-1 2001 ii) EN 301 489-1 v1.4.

1 (August 2002) iii) EN 301 489-5 v1.3.1 (August 2002) iv) EN 300 086-2 v1.1.1 (March 2001) v) EN 300 219-2 v1.

1.1 (March 2001) vi) EN 300 113-2 v1.3.1 (December 2003) vii) EN 301 166-2 v1.1.

1 (December 2001) Y. Furukawa General Manager Version (where applicable): 400470 MHz 6.25 kHz/12.5 kHz/25 kHz 400470 MHz 6.25 kHz/12.5 kHz/20 kHz Authorized representative name This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 60950-1 2001 ii) EN 301 489-1 v1.4.1 (August 2002) iii) EN 301 489-5 v1.3.1 (August 2002) iv) EN 300 086-2 v.

1.1.1 (March 2001) v) EN 300 219-2 v1.1.1 (March 2001) vi) EN 300 113-2 v1.3.1 (December 2003) vii) EN 301 166-2 v1.

1.1 (December 2001) Y. Furukawa General Manager Signature Signature 31 DOC · List of Country codes (ISO 3166-1) Country 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Austria Belgium Bulgaria Croatia Czech Republic Cyprus Denmark Estonia Finland France Germany Greece Hungary Iceland Ireland Italy Latvia Codes AT BE BG HR CZ CY DK EE FI FR DE GR HU IS IE IT LV 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 Country Liechtenstein Lithuania Luxembourg Malta Netherlands Norway Poland Portugal Romania Slovakia Slovenia Spain Sweden Switzerland Turkey United Kingdom Codes LI LT LU MT NL NO PL PT RO SK SI ES SE CH TR GB 9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 32 MEMO MEMO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 AT FI IT PL GB RO < Intended Country of Use > BE FR LV PT IS TR CY DE LT SK LI HR CZ GR LU SI NO DK HU MT ES CH EE IE NL SE BG A-6639H-1EU-r Printed in Japan © 2008-2009 Icom Inc. Printed on recycled paper with soy ink. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan .



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