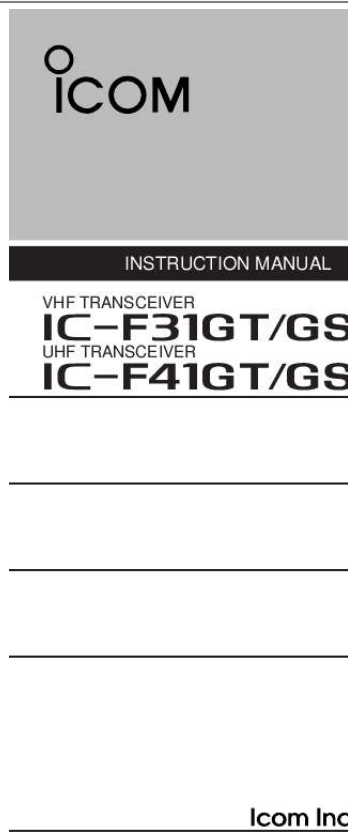




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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F31GT. You'll find the answers to all your questions on the ICOM IC-F31GT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ICOM IC-F31GT
User guide ICOM IC-F31GT
Operating instructions ICOM IC-F31GT
Instructions for use ICOM IC-F31GT
Instruction manual ICOM IC-F31GT



**SmarTrunk II™
Compatible**



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27 iii ACCESSORIES `Accessory attachment 1 D Supplied accessories The transceiver comes supplied with the following accessories. q Flexible antenna (may q differ from that shown, or may not be supplied w with some versions) w Belt clip D Antenna The antenna screws onto the transceiver as illustrated at right. For IC-F31GT-L/GS-L The most suitable flexible antenna should be purchased according to programmed frequency parameters. See page 26 for details. D Belt clip Attach the belt clip to the transceiver as illustrated below. To attach the belt clip To release the belt clip 1 2 q w e PANEL DESCRIPTION `Switches, controls, keys and connectors !2 !1 !0 Speaker o r t i y u Microphone D Programmable key reference F0 (Red) F1 (Black) F2 (Black) F3 (Black) 2 P0 P1 P2 P3 PANEL DESCRIPTION 2 q ANTENNA CONNECTOR Connects the supplied antenna. w DEALER-PROGRAMMABLE KEY [F0 (Red)] e DEALER-PROGRAMMABLE KEY [F1 (Black)] r PTT SWITCH [PTT] Push and hold to transmit; release to receive. t DEALER-PROGRAMMABLE KEYS [F2 (Black)], [F3 (Black)] · Push to select the operating channel. Depends on setting. · Can be programmed as [D]/[#]. (SmarTrunk mode only) y DEALER-PROGRAMMABLE KEYS [P0]/[P1]/[P2]/[P3] Can each be programmed for one of several functions by your Icom Dealer. u 10-KEY PAD (IC-F31GT/IC-F41GT only) Used to enter DTMF codes, the operating channel, etc. i FUNCTION DISPLAY Displays a variety of information, such as, operating channel number/names, 5-tone code, remaining battery power, DTMF numbers, transmit output power setting, Audible indication, etc. NOTE: The above functions depend on pre-setting. o MULTI CONNECTOR Connect optional speaker-microphone, etc. !0 TRANSMIT/BUSY INDICATOR Lights red while transmitting; lights green while receiving a signal, or when the squelch is open. !1 VOLUME CONTROL [VOL] Turns power ON and adjusts the audio level. !2 ROTARY SELECTOR [SEL] Selects operating channel, or bank. Depends on setting. 3 2 PANEL DESCRIPTION `Function display q w e r o i u y t q SIGNAL STRENGTH METER Indicates relative signal strength level. w BANK NUMBER INDICATOR Indicates operating bank (channel group) number. e LOW POWER INDICATOR Appears when low output power is selected. r MULTI-FUNCTION INDICATOR Indicates operating channel number, channel names, 5-tone code, etc., according to operating condition. t SCRAMBLER INDICATOR Appears while the voice scrambler function is activated. y KEY LOCK INDICATOR Appears during key lock function ON. u BELL INDICATION Appears or blinks when a 2/5Tone call is received. i AUDIBLE INDICATOR Appears when the monitor function is turned ON. (CTCSS and DTCS mutes are released.) o BATTERY INDICATOR Indicates remaining battery power. 4 BATTERY PACKS `Battery pack replacement 3 Before replacing the battery pack, the volume control MUST be rotated fully counterclockwise, until a click is heard, to turn the power OFF. · Slide the battery release forward, then pull the battery pack upward with the transceiver facing away from you. D BATTERY PACKS Charging period Battery Voltage Capacity pack Battery case for AA (R6)×6 alkaline 7.2 V 1100 mAh 7.2 V 1650 mAh BC-137 BC-144 or BC-121 with AD-94 N/A 1.5 hrs. 2.0 hrs. Battery life*1 BP-208 BP-209 BP-210 N/A 15 hrs. 15 hrs. --*2 7 hrs. 11 hrs *1Battery life is calculated under the following conditions; Tx : Rx : standby =5 : 5 : 90 *2Operating period depends on alkaline cells used.



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w Enter the memory location (09, A, B, C, D), the telephone or subscriber number, then [1], [M] (or [3], [M] if for another system subscriber). · A high-pitched beep indicates successful programming.

· Memories [A][D] are used for the Turbo Speedial. NOTE: This function is available for the IC-F31GT/IC-F41GT only. D Memory speed-dialling*2 To automatically dial a commonly used number from memory: · Push [M] followed by the memory location (09). D Clear channel alerting*1 If all channels are busy, the transceiver automatically begins searching for an open channel and beeps every ten seconds. When two short beeps (low-pitched, then high-pitched) are heard, a channel is available.

Push [M], [M] immediately to redial the last number. D Emergency call*2 Push [0], [M] to initiate an emergency call. · Contact your Dealer for details. 20 SmarTrunk IITM OPERATION 6 D Placing a telephone call* Enter the phone number followed by [1], [M]. 2 · A high-pitched beep indicates that the number is accepted. · When the called party answers, push the [PTT] switch to talk, and release it to listen. D Calling another local system subscriber*2 Enter the subscriber number followed by [3], [M]. · A high-pitched beep indicates that the number is accepted. · You hear ringing, then two short beeps when the subscriber answers. · If the other subscriber is on another call or out of range, you hear a fast busy signal and the call terminates automatically.

*1: This function is available for the IC-F31GS/IC-F41GS when the [F2]/[F3] keys are assigned the [M]/[#] key functions. *2: This function is available for the IC-F31GT/IC-F41GT only. Use the Turbo Speedial function instead. For additional operating instructions, contact your Dealer or System Operator. 21 7 OTHER FUNCTIONS `DTMF PAGER/CODE SQUELCH D DTMF pager This function uses DTMF tones for calling and can be used as a "common pager" to inform you that one of your group has called even if the operator is temporarily away from the transceiver. · When the connection code is received, a beep sounds, then " " flashes and shows the called station's code number. · The called station's code number is memorised automatically, and is easy to re-call with "ID-MR select function". D Code squelch This conveniently eliminates unwanted audio and is useful in group activities or security related activities where unwanted output can be a problem. The function is similar to a CTCSS tone squelch. In order to use the above functions, cloning is necessary via a PC using the optional CS-F30G CLONING SOFTWARE.

Using this software, the transceiver's model, individual RX Code CH, TX Code CH, Special Tone Link2 (must be 'E') in 5Tone screen, 5Tone Signaling Form in Memory-CH screen, Log, RX C-No, Key&Display, Common Auto Reset Timer B, and other settings related to operation can be set. Refer to the HELP file that comes with the CS-F30G CLONING SOFTWARE for available settings. 22 OPTIONAL UNIT INSTALLATION TM 8 You can install two of the following optional units in the transceiver. UT-105 SmarTrunk II Logic Board, UT-109/UT-110 VOICE SCRAMBLER UNIT, UT-111 TRUNKING BOARD, UT-113 MAN DOWN UNIT. · Installation q Unscrew nut a, and remove the knobs.

w Unscrew screw b and 2 screws c, then remove the multi-connector cover and rear panel. e Unscrew 2 screws d, then remove the multi-connector. @@Insert tightly to avoid bad contact. @@Otherwise the unit will not work correctly. @@@@D PC-to-transceiver cloning Please refer to the HELP file that comes with the CS-F30G CLONING SOFTWARE.

CAUTION: Imprudent cloning operation causes a cloning error. In such a case, memory contents may be lost. Cloning must then be repeated. 24 OPTIONS 10 D BATTERY PACKS · BP-208 BATTERY CASE Allows a set of Alkaline batteries to operate the handheld when charging rechargeable batteries or in emergencies, etc. 6 AA (R6) alkaline cells are required. · BP-209 Ni-Cd BATTERY PACK 7.2 V/1100 mAh Ni-Cd battery pack, allows more than 7 hours operation. · BP-210 Ni-MH BATTERY PACK 7.2 V/1650 mAh Ni-MH battery pack, allows approx. 11 hours operation.

D CHARGER · BC-144 DESKTOP CHARGER + BC-145 AC ADAPTOR For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs. · BC-137 (#11) BATTERY CHARGER + BC-122 AC ADAPTOR For regular charging of battery packs. An AC adapter is additionally required. Charging time: 15 hrs. · BC-146 BATTERY CHARGER + BC-147 AC ADAPTOR For regular charging of battery packs. An AC adapter is additionally required. Charging time: 18.

5 hrs. · BC-121 MULTI-CHARGER + AD-94 (#11) CHARGER ADAPTOR (6 pcs.) For rapid charging of up to 6 battery packs (six AD-94's are required) simultaneously. An AC adapter may be supplied depending on version. Charging time: 1.

5 to 2 hrs. · BC-119 DESKTOP CHARGER + AD-94 (#11) CHARGER ADAPTOR For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs.

D INTERNAL UNITS · UT-105 SmarTrunk II Logic Board Provides SmarTrunk IITM capabilities. TM 25 10 OPTIONS · UT-109 #02/UT-110 #02 SCRAMBLER UNITS Non-rolling type (UT-109)/Rolling type (UT-110) voice scrambler unit provides higher communication security. · UT-111 TRUNKING BOARD Provides LTR® trunking capabilities. · UT-113 MAN DOWN UNIT Provides a measure of safety when working in a hazardous environment, etc. D OTHER OPTIONS · AD-52 EARPHONE JACK ADAPTER Allows you to connect an earphone, 2-conductor 3.5 (d) mm (1/8). · AD-98FSC ANTENNA CONNECTOR CONVERTER Allows you to connect an external antenna with BNC connector. · EM-80/EM-89/HM-131SC SPEAKER-MICROPHONES Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt. · FA-SC12L/FA-SC13L FLEXIBLE ANTENNAS FA-SC12L: 6676 MHz FA-SC13L: 7688 MHz · FA-SC56VS/FA-SC57VS/FA-SC73US STUBBY ANTENNAS Shorter VHF or UHF antennas. FA-SC56VS: 150162 MHz FA-SC57VS: 160174 MHz FA-SC73US: 450490 MHz · HS-94 HEADSET + VS-1SC VOX/PTT CASE Ear-piece type headset and VOX/PTT switch box for hands-free operation, etc.

PC programming may be required for the IC-F31G series transceivers to enable the VOX operation. · MB-68 BELT CLIP Same as that supplied with the transceiver. · MB-74 BELT CLIP Exclusive alligator-type belt clip. SmarTrunk II is a trademark of the SmarTrunk System Corporation. LTR is a registered trademark of EFJohnson Radio Systems. 26 MEMO 11 27 <Intended Country of Use> s GER s NED s ITA s AUT s BEL s GRE s GBR s LUX s SWE s IRL s ESP s DEN s FRA s POR s FIN A-5672H-1EU-q Printed in Japan © 2000 Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003 Japan .



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