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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-A210E. You'll find the answers to all your questions on the ICOM IC-A210E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF AIR BAND TRANSCEIVER
IC-A210E



Icom Inc.



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Manual abstract:

Equipment damage may occur. If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. It's fast and easy to select any of memory channels in the IC-A210E. The "flip-flop" arrow button switches between active and standby channels. The dualwatch function allows you to monitor two channels simultaneously. In addition, the history memory channel stores the last 10 channels used and allows you to recall those channels easily.

GPS memory function When connected to an external GPS receiver* equipped with an airport frequency database, the IC-A210E will instantly tune in the local airport frequency as you fly into its airspace. *Ask your dealer for available GPS receiver details. 13.

8 V/27.5 V DC power source The built-in DC-DC converter accepts a 13.8/27.5 V DC power source. IBM is a registered trademark of International Business Machines.

The IC-A210E has adjustable audio level and squelch control functions. **PRECAUTIONS R WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. **DO NOT** place unit in a non-secure place to avoid inadvertent use by children.

DO NOT push the PTT when not actually desiring to transmit. **NEVER** connect the transceiver to an AC outlet or to a power source of more than 28 V DC. Such a connection will damage the transceiver. **DO NOT** use or place the transceiver in direct sunlight or in areas with temperatures below 20°C or above +55°C. **DO NOT NEVER** connect the transceiver to a power source that is DC fused at more than 5 A. Accidental reverse connection will be protected by this fuse, higher fuse values will not give any protection against such accidents and the transceiver will be ruined. **DO NOT** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere. **DO NOT** place the transceiver against walls. This will obstruct heat dissipation.

DO NOT use chemical agents such as benzine or alcohol when cleaning, as they damage the transceiver surfaces. **BE CAREFUL! DO NOT** connect the transceiver to a power source using reverse polarity. This connection will not only blow fuses but also may damage the transceiver. The transceiver will become hot when operating continuously for long periods. The antenna should also be spaced at least 1 m from any position occupied by any person on board of the aircraft. **ii TABLE OF CONTENTS IMPORTANT**

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Refer to the "INSTALLATION GUIDE" in details. *Ask your dealer for available GPS receiver details. q w q Metal catch (For Icom products) Use to attach to an installation rack for Icom products (p.



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26). w Metal catch (For 3rd party products*) Use to attach to an installation rack for 3rd party products* (p. 26). *Ask your dealer for available products details. 3 1 PANEL DESCRIPTION I Function display qw e r t y e u RX TX RX ICS DUAL MEMORY 118.00 F D 121.525 CH09 SAMPLE TEST !1 !0 o i q ACTIVE FREQUENCY INDICATOR Shows the active frequency (p.

6). Shows the MENU mode items in the MENU mode (p. 20). w TX INDICATOR Appears while transmitting (p. 6).

e RX INDICATOR Appears when receiving a signal on the active frequency signal (p. 6). Appears when receiving a signal on the standby frequency signal while dualwatch operation (p. 8ication" position. w Select an operating frequency.

· Refer to pgs. 56 in details. w Push and hold [PTT] to transmit, then speak into the microphone. · Transmit indicator "TX" lights. e Release [PTT] to receive. Frequency exchanging can be also performed remotely from the yoke-mounted frequency exchange switch. e Push the PTT switch. · "TX" appears. r Speak into the microphone at your normal voice level. · DO NOT set the microphone too closely to your mouth or speak too loudly.

This may distort the signal. TIP: The intercom function is useful for swift communication between the pilot and co-pilot. Set the communication/intercom switch on the VHF control panel to the "intercom" position. Voice signals from the microphone are sent to both the pilot and co-pile GPS receiver details. I

Memory channel type The transceiver has 4-memory* channel types as follows. *The GPS receiver is necessary when using GPS memory channel. 9 3 MEMORY OPERATION I Channel selection The transceiver has 10 regular memory and 200 group channels (10 channels × 1 REGULAR MEMORY and 10 channels × 20 GROUPS) for storage of often-used frequencies along with 6-character notes. @@· The memory channel name also appears if it has been entered. I Programming a memory channel This transceiver is equipped with 10 regular memory and 200 group channels. You can program often-used frequencies into them.

q Rotate [DIAL] and [O-DIAL] to set the desired frequency for the standby frequency indicator. w Push [RCL] to enter the memory mode. · The channel number appears. · The memory channel name also appears if it has been entered. w Rotate [O-DIAL] to select the memory channel type.

· Select from regular memory channel or group memory channel. e Rotate [DIAL] to select the desired memory channel number. RX MEMORY e Rotate [O-DIAL] to select the desired memory channel type. · Select regular memory channel or group memory channel. 122.

00 127.005 CH01 r Push [MEM], and then rotate [O-DIAL] to select a "REPLACE" menu. · The memory channel number blinks. Transferring the memory channel to the active frequency is necessary if operating at the memory channel. Refer to "Transferring memory contents" (p. 12) for details. r Push [RCL] to exit the memory mode. t Rotate [DIAL] to select a memory channel to be programmed. y Push [MEM], then the selected memory channel is programmed. · "WRITE COMPLETED" appears on the display when the regular memory channel is programmed.

u Push [RCL] to exit the memory mode. 10 MEMORY OPERATION 3 I Programming example The following is an example showing how to program 126.000 MHz into regular memory channel 4. q Set a "126.000 MHz" in the standby indicator. RX 134.80 126.005 RX MEMORY "126.00" appears in the standby indicator. 03 w Push [RCL], then rotate [ODIAL] to select "MEMORY".

134.80 CH01 RX MEMORY "MEMORY" and regular channel number appear. memory e Select regular memory channel 4 with [DIAL]. r Push [MEM], then rotate [ODIAL] to select "REPLACE." 134.

80 CH04 RX MEMORY " " appears when no frequency has been programmed into regular memory channel 4. 126.000 134.80 RX REPLACE CH04 Ç ---,--- Regular memory channel number blinks.

"WRITE COMPLETED" is displayed when the selected frequency is stored. t Push [MEM] to store the desired frequency into the selected regular memory channel. MEMORY 134.80 126.005 CH04 TIP: Push and hold [MEM] for 2 sec. @@@@5 actions are selectable. @@@@6 actions are selectable. @@@@Delete the memory channel. Revive the previous memory channel data. Edit the memory channel name.

@@@Delete the memory channel. Revive the previous memory channel data. Edit the group name. Set the memory channel as a tag channel. Do nothing and return to the memory mode. @@@@w Rotate [DIAL] to select the desired channel. @@@@r Push [MEM], then group name's 1st digit blinks. @@@@u Repeat ty to input the memory channel name. i Push [MEM] to decide the memory channel name. @@@@ Repeat ty to input the group name.

@@It is convenient for separating memory type. @@24) User2 setting (Refer to p. @@@@w Rotate [O-DIAL] to select the GPS memory channel. "GPS" appears. w Rotate [O-DIAL] to select the GPS memory channel.

· "GPS" appears. e Rotate [DIAL] to select the desired channel. r Push [RCL] to exit the GPS memory mode. Airport code RX GPS RJTJ e Push [MEM] to enter the GPS memory channel edit mode, then rotate [O-DIAL] to select the desired group memory. · "GPS" and airport code blink.

122.00 122.055 CH01 TWR r Push [MEM] to store the GPS memory channel data to the selected group memory. t Push [RCL] to exit the memory mode. Tag name I Memory protection The transceiver has memory protection which inhibits to the editing (storing, deleting, replacing, etc.) of the memory group memory channels. Refer to "Memory Protection" (p. 22) for details. 17 4 OTHER FUNCTIONS I Accessing 121.5 MHz emergency frequency The IC-A210E can be set to the 121.

5 MHz emergency frequency quickly. This function can be activated even when the key lock function is in use. q Push [EC] to call the emergency frequency to the standby frequency, and then entering the dualwatch operation automatically. w Push [] to transfer emergency frequency to the active frequency if necessary. · "EC" appears. I Lock function The lock function prevents accidental frequency changes and accidental function activation. q Push and hold [DIAL] for 2 sec. to turn the lock function ON. · " D P " appears when DIAL lock mode is selected. " appears when PANEL lock mode is selected. " or " P w To turn the function OFF, repeat step q above. D NOTE: AUTOMATIC LOCK RELEASE FUNCTION This transceiver has an "Automatic Lock Release Function" which releases the Lock function automatically when an operator gets into a panic. The function performs when operating to push any keys (except [EC]) 8-times or rotating any dials (except [VOL]) 25clicks for 5 sec.



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OO O " disappears. O e Push [] to exit from the emergency frequency.

· Set the frequency except 121.500 MHz before pushing [] to the standby frequency if necessary. · "EC" disappears. NOTE: "EC" also appears on the display while the active frequency is set to 121.500 MHz.

CONVENIENT!: Push and hold [EC] for 2 sec. to enter the direct frequency setting mode (p. 8), and set the emergency frequency (121.5 MHz). · "EC" appears. 18 OTHER FUNCTIONS 4 I Intercom function When 2-headphone and microphone jacks are connected to the transceiver, these headsets can be used as a voice-activated intercom. q Enter to the MENU mode. · See p.20 for details. I Squelch test function This function opens the squelch manually for testing.

q Push [VOL] to turn the squelch test function ON. · "TEST" appears. w To turn the function OFF, repeat step q as above. · "TEST" disappears. 04 w Set Intercom Usable Setting to ON. · See p.25 for details. e Exit from the MENU mode. · See p.20 for details.

r Push and hold [DUAL] for 2 sec. to enable the intercom function. · "ICS" appears. I Frequency step setting Frequency step (8.33 kHz or 25 kHz) is selectable in the menu mode.

q Enter the menu mode (See p. 20 for details). w Rotate [O-DIAL] to select the "FREQ. STEP (Frequency step)". e Rotate [DIAL] to select the desired frequency step (8.

33 kHz or 25 kHz). r Push [RCL] to exit MENU mode, and returning to the previous operating condition. · The headphone audio output level can be selected "OFF," "output level fixing (001080)" or "interlocking with [VOL]" in the MENU mode (p. 21). · The microphone1 and microphone2 audio input levels can be also selected "OFF" or "output level fixing (001080)" in the MENU mode (p. 21). 19 5 MENU MODE · MENU mode items HP LEVEL INCOM LV1 INCOM LV2 MIC1 SQL MIC2 SQL ANL SQL LEVEL LOCK MODE U-2 ID SET DW INTERVAL AUX IN PRI. WATCH MEM PROTECT GRP MEMORY INCOM MODE MIC1 GAIN iA210E I MENU mode programming MENU mode is available at power ON and allows you to set seldom-changed settings. In this way you can customize transceiver operations to suit your preferences and operating style. DISP MODE DISP LOW DISP HIGH p.

21 DISP MAN. DISP RESP. FREQ DISP p. 24 U-1 ID SET p. 23 D Operating MENU mode q Rotate [VOL] to turn the transceiver's power ON. w Push [RCL] to set VFO mode if memory mode is selected. e Push and hold [RCL] for 2 sec. to enter the MENU mode. r Rotate [O-DIAL] to select setting items. t Rotate [DIAL] to select the desired condition.

@ @ @ @ 25 TIME OUT FREQ. STEP p. @ @ · OFF (0) : While muting the headphone. @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ : The ANL function is ON. 21 5 MENU MODE I MENU mode items (Continued) D AM Squelch Level "SQL LEVEL" Set the squelch level for AM mode operation.

In order to receive signals properly, the squelch must be adjusted to the proper level. · 010010 : Setting AM squelch level from 10 to 10. D Memory Protection "MEM PROTECT" Set the memory protection to regular memory channels and group memory channels. Editing the regular memory and group memory channels is inhibited while the protection is ON. · OFF · ON : The memory protection is OFF.

: The memory protection is ON. D Lock Mode "LOCK MODE" Set the lock function effective area. · OFF · DIAL · PANEL : The lock function is nonfunctional. : The lock function applies to [DIAL]. : The lock function applies to buttons on the front panel. D Group Memory Channel Display "GRP MEMORY" Set the displaying whether the label displays or not. · CH · LABEL : The only channel number is displayed. : The label is also displayed. D Dualwatch Interval "DW INTERVAL" Set the interval time while operating dualwatch. · FAST · MID · SLOW : The interval time sets to 300 msec.

: The interval time sets to 600 msec. : The interval time sets to 2 sec. D Microphone1 Gain "MIC1 GAIN" Set the microphone1's gain. · 010010 : Setting the microphone1's gain from 10 to 10. D Priority Watch Interval "PRI. WATCH" Set the active frequency receive interval time while receiving the standby frequency. · FAST · MID · SLOW : The interval time sets to 400 msec. : The interval time sets to 800 msec. : The interval time sets to 2 sec. D Microphone2 Gain "MIC2 GAIN" Set the microphone2's gain.

· 010010 : Setting the microphone2's gain from 10 to 10. 22 MENU MODE I MENU mode items (Continued) D Sidetone Level "SIDETONE LV" When using an optional headset (supplied from 3rd party*) via the adapter, the transceiver outputs your transmitted voice to the headset for monitoring. *Ask your dealer in details. · OFF (0) : The sidetone function is OFF. · 001080 : Setting sidetone level from 1 to 80.

5 D Dimmer Mode "DISP MODE" Set the OLED dimmer mode. · OFF · AUTO : The dimmer function is OFF. : Set the dimmer automatically depending on local brightness. The light sensor which built-in the display is used for this function. · MANUAL : Set the dimmer depending on Dimmer Brightness (Low) "DISP LOW".

05 D Transmitting Microphone Selection "TX MIC SEL" Set the usable microphone when pushing microphone's PTT switch. The item allows you to control which connected microphone is permitted to transmit. · MIC1 · MIC2 · MIC1+2 : Selecting the microphone1. : Selecting the microphone2. : Selecting both the microphone1 and microphone2. D Dimmer Brightness (Low) "DISP LOW" Set the lower brightness level in the automatic adjustment range when "AUTO" is selected at the "Dimmer Mode." The transceiver automatically adjusts its display brightness by the current lighting conditions. · OFF : The key backlight sets OFF. · 001049 : Setting low dimmer brightness level from 1 to 49. D Dimmer Brightness (High) "DISP HIGH" Set the upper brightness level in the automatic adjustment range when "AUTO" is selected at the Dimmer Mode.

· 050100 : Setting dimmer brightness level from 50 to 100. 23 5 MENU MODE I MENU mode items (Continued) D Dimmer Brightness (Manually) "DISP MAN." Set the brightness manually to suit your own preferences. · 0100 : Setting dimmer level manually from 0 (OFF) to 100. D USER-1 Setting "U-1 ID SET" Set the USER-1, channel tag, to the desired ID. q w e r t Push [MEM] to enter the U-1 ID edit mode. Rotate [DIAL] to select the desired character. Rotate [O-DIAL] to select the next input digit. Repeat we to input the U-1 ID.



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Push [MEM] again to store the U-1 ID, and exit the edit mode.

D Dimmer Response "DISP RESP." Set the dimmer switching speed when selecting "AUTO" at the "Dimmer Mode." · STANDARD : Selecting switch speed is normal. · FAST : Selecting switch speed is fast. D USER-2 Setting "U-2 ID SET" Set the USER-2, channel tag, to the desired ID.

q w e r t Push [MEM] to enter the U-2 ID edit mode. Rotate [DIAL] to select the desired character. Rotate [O-DIAL] to select the next input digit. Repeat w e r t to input the U-2 ID. @@ · ON : The 1 kHz digit always display on the OLED.

· ZERO SUPP. @@ : The external input is available while squelch is closing. @@- The intercom function is OFF. - While the intercom function does not use. @@ · 001080 : Setting the external input level from 1 to 80. · AF GAIN : Interlocking with [VOL]. 5 D Time-Out-Timer "TIME OUT" To prevent accidental prolonged transmission, etc., the transceiver has a time-out-timer function. This timer starts when a transmission begins, and will cut off the transmission when the time set in the timer elapses. · 020240 : Setting time-out-timer starting period from 20 sec.

to 240 sec. at 10 sec. intervals. D Beep Tone Level "BEEP" Confirmation beep tones normally sound when storing memory, operating time-out-timer function, etc. These can be set the desired beep level as you prefer. · OFF (0) : The beep tone turns OFF. @@@@ : Stored memories are reset. : All CPU data is reset. D Intercom Usable Setting "INCOM MODE" Set the intercom using or not. · ON · OFF : The intercom is usable.

: The intercom is unusable. 25 6 INSTALLATION AND REMOVAL t Turn the wrench clockwise until the main unit is fixed to the installation rack. · Turn the wrench in the upper socket as shown below when using the installation rack for Icom products. · Turn the wrench when in the lower socket as shown below when using the installation rack for 3rd party* products. · Main unit front view Use for pre-existing Icom radio installations I Transceiver installation See the "INSTALLATION GUIDE" for details when attaching IC-A210E.

q Insert a 3/32 in allen wrench into the 2-holes in the front panel. DUAL EC VOL OFF PUSH TEST iA210E RCL MEM COMM w Turn the wrench counterclockwise until the front panel is loose. · A cable connects the front panel with the main unit. e Disconnect the flat cable from the front panel's connector to remove the front panel. · Front panel rear view Disconnect from here.

Use for pre-existing 3rd party radio* installations *Ask your dealer for available products details. y Replace the disconnected cable and removed front panel in place. CAUTION: Treat the flat cable with care when connecting it. I Transceiver removal CAUTION: Treat the flat cable with care when disconnecting it.

r Visually confirm that the metal catches on the top and bottom of the transceiver are as shown below. · Main unit top/bottom view The IC-A210E may easily be removed from the installation rack, if desired. q Perform the same steps as qe of "Transceiver installation" to remove the front panel (See the left column).

w Turn the wrench counterclockwise until the main unit moves slightly from the installation rack. · See t of "Transceiver installation" for details. 26 e Pull out the transceiver slowly from the installation rack.

CLONING D Data cloning Cloning allows you to quickly and easily transfer the programmed contents or data from a PC to a transceiver using the optional CS-A210 CLONING SOFTWARE. Data can be cloned to and from a PC (IBM compatible) using the optional CS-A210 CLONING SOFTWARE and the optional OPC1529R CLONING CABLE (connect with the data jack). Consult the CS-A210 instruction manual and HELP file for details. · When clone writing error occurs. 7 CLONE WRITE ERR · While clone reading. RX MEMORY 06 07 D Displayed Message · While clone writing. 127.00 CLONE READ CLONE WRITE · When clone writing is finished properly. · When turn the power OFF/ON after clone writing error occurs. (The transceiver boots with Error mode.)

) In this case, Clone writing correctly data to the transceiver is necessary to cancel the error. CLONE WRITE OK CLONE NO DATA 27 8 SPECIFICATIONS D Receiver · Receive system · Intermediate frequencies · Sensitivity · Selectivity : Double conversion superheterodyne : 1st 38.85 MHz 2nd 450 kHz : (AM)

Less than 2 μ V (pd) at 6 dB S/N : · Channle spacing: 25 kHz 6 dB \pm 8.5 kHz · Channel spacing: 8.33 kHz 6 dB \pm 2.

8 kHz : More than 74 dB μ : 5 W with a 4 load (External speaker) 60 mW with a 500 load (Headphone) D General : 118.000 to 136.975 MHz : 25 kHz or 8.33 kHz : \pm 1 ppm (0°C to +40°C) : 20°C to +55°C : 50 : 10 memory channels 200 group channels 10 history channels 10 GPS channels · Mode : AM (6K00A3E)

· Power supply requirement : 13.80 V / 27.

50 V DC (negative ground) · Frequency range · Channel spacing · Frequency stability · Operating temperature · Antenna impedance · Number of memory channels · Spurious response rej. · Audio output power · Dimensions (projections not incl.) : 160 (W)34 (H)271 (D) mm : approx 1.0 kg · Weight D

Transmitter · Mode · Output power · Spurious emissions · Microphone impedance · Modulation limiting · Transmitter intermittent duty cycle 28 : A3E : 6 W (Carrier power) : 36 dBm (harmonics) : 600 : 85% (Max 98%) : 1 minute (Transmitter ON) 3 minutes (Transmitter OFF) All stated specifications are subject to change without notice or obligation. OPTIONS D CS-A210 CLONING SOFTWARE Provides quick and easy programming of items, including private channels, etc., via an Windows® PC (Microsoft® Windows® 2000/Me/XP/Vista™) to transceiver. 9 D OPC-1529R CLONING CABLE · This cloning cable provides convenient connection to a PC to access programmable features, such as memory channels, memory name, etc. D MB-53 MOUNTING BRACKET

For mounting the transceiver. The external speaker and microphone are included. 08 09 NOTE: Icom optional equipment is designed for optimal performance when used with this transceiver.

We are not responsible for the transceiver being damaged or any accident caused when using non-Icom optional equipment. 29 10 ABOUT DOC DECLARATION OF CONFORMITY We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan 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.



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Kind of equipment: Type-designation: VHF AIR BAND TRANSCEIVER 0168 Düsseldorf 26th Sep. 2008 Place and date of issue Icom (Europe) GmbH
Himmelgeister straÙe 100 D-40225 Düsseldorf Authorized representative name iC-a210e Version (where applicable): This compliance is based on conformity
with the following standards, specifications or documents: i) EN300 676 v1.3.1 (March 2003) ii) EN301 489-22 v1.3.1 (November 2003) iii) EN301 489-1
v1.6.

1 (September 2005) iv) EN60950-1: 2006 v) EN50385: 2002 vi) EN50383: 2002 Y. Furukawa General Manager Signature 30 ABOUT DOC CE Versions of
the IC-A210E 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. 10 · List of Country codes (ISO 3166-1) Country 1 Austria 2 Belgium 3 Bulgaria 4 Croatia Codes AT BE
BG HR CZ CY DK EE FI FR DE GR HU IS IE IT LV Country 18 Liechtenstein 19 Lithuania 20 Luxembourg 21 Malta 22 Netherlands 23 Norway 24 Poland
25 Portugal 26 Romania 27 Slovakia 28 Slovenia 29 Spain 30 Sweden 31 Switzerland 32 Turkey 33 United Kingdom Codes LI LT LU MT NL NO PL PT RO
SK SI ES SE CH TR GB 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 requirements. 5 Czech Republic 6 Cyprus 7 Denmark 8 Estonia 9 Finland 10 France 11 Germany 12 Greece 13 Hungary 14 Iceland 15
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