

INSTRUCTION MANUAL

UHF FM TRANSCEIVER

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FOREWORD

ICOM has taken the multi-functional complexity of larger base station transceivers and put it into the new compact, light, easy-to-use **IC-4GA/GAT/GE** UHF FM TRANS-CEIVER.

High transmit power capability, a convenient power saver function, pocket beep function, moisture-proof body, and many more features are all standard with the transceiver.

To fully appreciate the capabilities of your new **IC-4GA/GAT/GE**, please read this instruction manual thoroughly. Also, visit your nearest authorized ICOM Dealer or Service Center if you have questions relating to the operation of the transceiver.

UNPACKING

1 Battery pack or case $*^1$
 ② Flexible antenna
3 Handstrap
(4) Handstrap clip
5 Belt clip
6 Rainproof cap
⑦ Wall charger* ²
*1 BP-70 for IC-4GAT (U.S.A. version)
IC-BP3 for IC-4GA/GE (Australia and Europe versions)
IC-BP4 for IC-4GAT (Southeast Asia version)
10 DO 1011 (a) 10 40 AT (11 S A suggistion)
*2 BC-16U for IC-4GAT (U.S.A. version) BC-27 for IC-4GA (Australia version)
BC-27 for IC-4GA (Australia version) BC-26E for IC-4GE (Europe version)
No charger included for IC-4GAT (Southeast Asia version)

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1. CAUTIONS



NEVER use strong cleaning agents such as benzine or thinner on the transceiver.



NEVER disassemble the transceiver as it may cause-trouble.





AVOID using the transceiver for long periods in direct sunlight.



AVOID using the transceiver in excessively dusty places.



NEVER leave the transceiver on the dashboard in direct sunlight for long periods.



AVOID using the transceiver in places subject to excessive cold.



BE CAREFUL when transmitting the transceiver for a long time, as the rear panel may become very hot.

FEATURES 2.

- HIGH OUTPUT POWER Small, compact size is not a limiting factor when it comes to high output power. Full 6W are available. (The IC-4GA/GE requires an optional BP-70 or IC-BP7 for 6W of power.)
- 20 MEMORY CHANNELS PLUS CALL CHANNEL
 The transceiver is equipped with a total of 20 memory channels and one CALL channel. Each memory channel can independently memorize operating frequencies and all repeater information.
 Note that the IC-4GE is not equipped with a CALL channel.
- POWER SAVER DESIGN All circuits are designed using low power dissipation techniques to create a special power save circuit in the transceiver. The power saver circuit functions if no signal is received or no switch operation is performed for more than 30 seconds, and requires only 1/4 current flow during regular receiving conditions. In addition the power saver circuit can be turned OFF for packet communications.
- TWO DIFFERENT SCAN FUNCTIONS
 Two different scans, programmed scan and memory scan, are provided with the transceiver. In addition memory skip channels can be programmed to skip selected memory channels during memory scanning operation.
- SQUELCH MONITOR
 FUNCTION
 This convenient squelch monitor function allows you to hear audio from a signal more easily without having to adjust the SQUELCH CONTROL back and forth at the squelch threshold level. This is a fast and easy way to monitor weak signals.
- POCKET BEEP FUNCTION
 This convenient pocket beep function lets you know when subaudible tones identical to your own pre-programmed ones arrive at the transceiver. Just install an optional UT-40 TONE SQUELCH UNIT in the transceiver to activate the function.
 Note that the UT-40 cannot be installed in the IC-4GE.
- **SPLASH RESISTANT** Rubber gaskets ensure that water splashed on the transceiver does not penetrate the casing.

3. MODE CONSTRUCTION

The transceiver has 4 different modes for versatile, multi-function operations. Following are explanations of each mode.

(1) VFO MODE



This mode is used for normal operations using all bandwidths. Frequency changes, programmed scanning, and other functions are possible in VFO mode.

(2) MEMORY MODE



This mode is used for operating the transceiver using memory channel contents. You can use 20 memory channels for programming repeater frequencies, your group frequency, and more.

(3) CALL CHANNEL MODE



This mode is used for operating the transceiver on a programmed priority channel. When the mode is selected, no switches on the top panel function (except while pushing the [FUNCTION] SWITCH).

Note that the IC-4GE is not equipped with a call channel since the [T. CALL] SWITCH is used to activate the 1750Hz tone call function.

(4) SET MODE



This mode is used for programming subaudible tone frequencies^{*}, tuning steps, programmed scan edges and the power saver ON/OFF. The mode can be changed from VFO mode with the [FUNCTION] + [V/M] SWITCHES.

*IC-4GAT : Built-in

IC-4GA : When an optional UT-40 TONE SQUELCH UNIT is installed

MODE CONSTRUCTION 3.

• Flow chart of modes



4. CONTROL FUNCTIONS

4 - 1 FRONT AND SIDE PANELS





4. CONTROL FUNCTIONS

4-2 TOP PANEL





7

■ OPERATING IN MEMORY MODE



4. CONTROL FUNCTIONS

4-3 FUNCTION DISPLAY



9

PRE-OPERATION 5.

5-1 BATTERY CHARGING

(1) REMOVING THE BATTERY PACK

Push the BATTERY PACK RELEASE BUTTON upwards, and slide the battery pack to the right to remove it from the transceiver.



(2) CHARGING CONNECTION To charge the battery pack, use the supplied wall charger or an optional BC-35U/E, BC-36 AC BAT-TERY CHARGER, or other power source as shown below.

BC-16U • Charging the BP-70 BATTERY PACK



• Charging the IC-BP3 BATTERY PACK.



(3) BATTERY PACK NOTE

AC

Outlet

The full charge capacity of NiCd batteries may be reduced if repeatedly charged with only partial discharge periods. This is called the Battery Memory Effect. If the battery capacity seems lower than when new, discharge the battery pack completely through normal use, then charge fully using the proper charger.

(4) BATTERY PACK •NEVER throw the battery pack into a fire since battery gas could cause an explosion.

- **NEVER** put the battery pack in water. If the battery pack is wet, be sure to wipe it dry.
- NEVER short the terminals on the top panel of the battery pack. Use the plastic insulator strip provided to prevent this.

5. PRE-OPERATION

(5) BATTERY PACK LIFE

Stated operation times are approximate, and conform to the following ratio:

Transmit : Receive : Standby 1 min. 1 min. 8 min.

	IC-BP2	IC-BP3	IC-BP5 IC-BP5A	IC-BP7	IC-BP8	BP-70
Capacity	425mAh	270mAh	425mAh	425mAh	800mAh	270mAh
Voltage	7.2V	8.4V	10.8V	13.2V	8.4V	13.2V
Operation times	3.5hrs.	1.8hrs.	2.2hrs.	2.3hrs.	5.2hrs.	1.4hrs.

5-2 OUTDOOR USE

- (1) HANDSTRAP ATTACHMENT
- 1) Insert the handstrap clip as shown below.
- 2) Slide the handstrap holder through the hole in the handstrap clip.





(2) BELT CLIP ATTACHMENT



Attach the belt clip to the rear panel using the supplied screws and washers.

Screws and washers are pre-attached to the transceiver rear panel.

BASIC OPERATION 6.

6-1 FREQUENCY SETTING

- 1) Turn power ON.
- 2) Select VFO mode.



3) Set frequency.



6-2 RECEIVING

- 1) Turn power ON and adjust [OFF/VOL] CONTROL.
- 2) Adjust [SQL] CONTROL.
- 3) Set the desired frequency.



4) Push and hold [MONI] SWITCH. The operating frequency can be set using the convenient top panel Digital Touchstep Switches.

- 1) Rotate the [OFF/VOL] CONTROL to turn the power ON.
- If the "M" appears on the FUNCTION DISPLAY (in MEMORY mode), push the [V/M] SWITCH to select VFO mode.
- 3) Push either DIGIT UP/DOWN SWITCH upwards or downwards to set the frequency.
 - The [10k] SWITCH changes the frequency in the programmed tuning step. Refer to p. 23 for tuning step programming.

- 1) Rotate the [OFF/VOL] CONTROL to turn the power ON and adjust to a suitable audio level.
- 2) Adjust the [SQL] CONTROL until the noise is quieted.
- Set the desired frequency using the DIGIT UP/DOWN SWITCHES. See p. 7 for setting a frequency.
 - When receiving a signal, the S/RF INDICATOR displays the signal strength and audio is emitted from the speaker.
- 4) Push and hold the [MONI] SWITCH to open the squelch and optional tone squelch functions.

6. BASIC OPERATION

6-3 TRANSMITTING

- 1) Turn power ON.
- 2) Select output power.



3) Select simplex mode.

IOW



4) Push PTT SWITCH.



(LOW output power)





- 1) Rotate the [OFF/VOL] CONTROL to turn the power ON.
- 2) Push the [H/L] SWITCH to select the desired output power.
 - "LOW" appears when LOW power is selected.

HIGH: 3.5W (with IC-BP3) 6W (with BP-70 or IC-BP7) LOW : 1W

- Select simplex mode if "DUP" or "-DUP" appears on the FUNCTION DISPLAY. Push and hold the [FUNCTION] SWITCH and then push the [MHz] SWITCH upwards.
- Push the PTT SWITCH to begin transmitting, and speak into the microphone (located under the right side of the speaker).
 - The red TRANSMIT INDICATOR lights up and the bars indicate relative switch positions.
 - When the battery is exhausted, the red TRANS-MIT INDICATOR does not light up.

NOTE: DO NOT hold the transceiver too closely to your mouth or speak too loudly. This may distort the signal.

(HIGH output power)



BASIC OPERATION 6.

6-4 REPEATER OPERATION

- 1) Set frequency.
- 2) Select duplex mode.



3) Push PTT SWITCH.

4) Push [MONI] SWITCH.

MONI





	3	
4 5	6	в
	9	

- 1) Set the desired frequency to the repeater output frequency.
- Push and hold the [FUNCTION] SWITCH and then push the [MHz] SWITCH upwards to select +duplex or -duplex mode.
 - Refer to p. 22 for setting an offset frequency for duplex operation.
- 3) Push the PTT SWITCH to begin transmitting, and speak into the microphone.
 - The transmit frequency automatically shifts with the programmed offset frequency.
- 4) Push the [MONI] SWITCH to monitor the transmit frequency (repeater input frequency).
 - The squelch and optional tone squelch functions open.
- A repeater controlled by a subaudible tone. (with IC-4GAT)

Push and hold the [FUNCTION] SWITCH and then push the [MHz] SWITCH downwards to turn the subaudible tone encoder ON.

• A repeater controlled by DTMF signals. (with IC-4GAT)

Push and hold the PTT SWITCH and then push the required number keys on the DTMF KEY-BOARD.

• A repeater controlled by a 1750Hz tone call. (with IC-4GE)

Push the [T. CALL] SWITCH for approximately $1 \sim 3$ seconds.

T. CALL

7. FUNCTIONS OPERATION

7 - 1 MEMORY READING

1) Push [V/M] SWITCH.



2) Select memory channel.

The transceiver has 20 memory channels. An operating frequency, duplex condition, subaudible tone frequency and channel skip function may be assigned to each memory channel.

- 1) Push the [V/M] SWITCH to select MEMORY mode.
 - "M" appears on the FUNCTION DISPLAY.

2) Select the required memory channel using the [100k] and [10k] SWITCHES.







1) Select required memory channel.



2) Push [V/M] SWITCH.



The [WR] SWITCH has a built-in safety function to prevent accidental erasure of memory contents.

Push the [WR] SWITCH until 3 beep tones are emitted from the transceiver. Now you are able to use the memory write function.

1) Select the required memory channel. Refer to Section 7 - 1 MEMORY READING.

2) Push the [V/M] SWITCH to select VFO mode.

• "M" disappears from the FUNCTION DISPLAY.

FUNCTIONS OPERATION 7.

3) Select programming condition.



- 4) Push and hold [WR] SWITCH.
- 7-3 MEMORY TRANSFERRING
- 1) Select required memory channel.



2) Push and hold [WR] SWITCH.



3) Select a frequency, duplex/simplex condition, offset frequency, subaudible tone frequency, etc.

- 4) Push and hold the [WR] SWITCH until 3 beep tones are emitted during VFO mode.
 - Displayed contents are memorized.

- This function allows you to use a memory channel in VFO mode. For example, a nearby frequency of any programmed frequency in a memory channel can be easily searched using this function.
- 1) Select the required memory channel. Refer to section 7 1 MEMORY READING.

- 2) Push and hold the [WR] SWITCH until 3 beep tones are emitted during MEMORY mode.
 - Displayed memory contents are transferred to VFO mode and the transceiver is changed to VFO mode.

7. FUNCTIONS OPERATION

7-4 PROGRAMMED SCAN

Programmed scan repeatedly scans between userprogrammed independent frequency edges to monitor a particular section of the band. Refer to p. 23 for setting scan edges.



1) Select VFO mode.



2) Adjust [SQL] CONTROL.



3) Push [FUNCTION] and [10k] SWITCHES.



2) Adjust the [SQL] CONTROL to the squelch threshold point.

1) Select VFO mode using the [V/M] SWITCH.

- 3) Push and hold the [FUNCTION] SWITCH and then push the [10k] SWITCH upwards or downwards to start programmed scan.
 - The decimal point blinks while the scan is operating.
 - The scan stops when the transceiver receives a signal.
 - The scan then resumes after 15 seconds while on a signal or after 2 seconds when the signal disappears.
- 4) Push any switch on the top panel.
- 4) Push any switch on the top panel to stop the scan.

FUNCTIONS OPERATION 7.

7-5 MEMORY SCAN

- 1) Select MEMORY mode.
- 2) Adjust [SQL] CONTROL.
- 3) Push [FUNCTION] and [10k] SWITCHES.



4) Push any switch.

7-6 SKIP SCAN



- 1) Select required memory channel.
- Push [FUNCTION] and [V/M] SWITCHES.



- Memory scan automatically scans all programmed memory channels except the skip channels described in section 7 - 6 SKIP SCAN.
 - 1) Select MEMORY mode using the [V/M] SWITCH.
 - 2) Adjust the [SQL] CONTROL to the squelch threshold point.
 - 3) Push and hold the [FUNCTION] SWITCH and then push the [10k] SWITCH upwards or downwards to start the memory scan.
 - Same status as programmed scan (i.e., decimal point and scan resumption.)
 - 4) Push any switch on the top panel to stop the scan.

An unrequired memory channel can be skipped during memory scan. This section explains how to program a channel for skip scan. Refer to section 7-5 MEMORY SCAN for memory scan operating procedures.

- 1) Select your required memory channel. Refer to section 7 1 MEMORY READING.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to alternately program and cancel the skip channel.

7. FUNCTIONS OPERATION

7-7 POCKET BEEP AND TONE SQUELCH FUNCTIONS



1) Push [FUNCTION] and [100k] SWITCHES.



2) Push any switch.

7-8 CALL CHANNEL MODE

(1) CALL CHANNEL READING





These functions require an optional UT-40 TONE SQUELCH UNIT. Note that they cannot be used with the IC-4GE.

The pocket beep function alerts you using 30sec. beep tones and "SQL" flashing when a call is received with the same subaudible tone as programmed in your transceiver. This is very convenient for times when you are temporarily away from the transceiver.

The tone squelch function allows you interferencefree communications.

- 1) Push and hold the [FUNCTION] SWITCH and then push the [100k] SWITCH downwards to sequentially turn the tone squelch and pocket beep functions ON and OFF.
 - "T SQL" : Tone squelch function
 - "SQL" : Pocket beep function
- 2) Push any switch on the top panel to stop beep tones. The transceiver automatically changes to the tone squelch function.
- Your highest priority channel can be easily called from a programmed call channel.

Note that the IC-4GE is not equipped with a call channel.

Push the [CALL] SWITCH to alternately select or cancel the call channel.

• "C" appears in place of the memory channel number.

FUNCTIONS OPERATION 7.

(2) CALL CHANNEL PROGRAMMING

1) Select VFO mode.

V/M

- 2) Select contents.
- 3) Push [CALL] SWITCH.

CALL

4) Push and hold [WR] SWITCH.

7-9 BEEP TONE FUNCTION

7 - 10 LOCK FUNCTION





- 1) Select VFO mode using the [V/M] or [CALL] SWITCH.
- 2) Select contents such as frequency, repeater information, etc., you wish to write into the call channel.
- 3) Push the [CALL] SWITCH⁻ to select the call channel.⁻
- 4) Push and hold the [WR] SWITCH until 3 beep tones are emitted from the transceiver.
 - The desired contents are now memorized.

A beep tone is emitted each time a switch is pushed. If you do not require beep tones, they can be eliminated in the following way:

Push and hold the [FUNCTION] SWITCH and then push the [MONI] SWITCH to alternately turn the beep tone function ON and OFF.

- The pocket beep function is activated even if the beep tone function is turned OFF.
- This feature prevents accidential changes of the operating frequency and VFO/MEMORY modes.

Push and hold the [FUNCTION] SWITCH and then push the [H/L] SWITCH to alternately turn the lock function ON and OFF.

• "L" appears when the lock function is activated.

8. SET MODE

8 - 1 SET MODE CONSTRUCTION

The transceiver has a convenient SET mode for programming:

- Subaudible tone frequencies
- Offset frequencies
- Tuning steps
- Scan edges
- Power saver ON/OFF

Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH while in VFO mode. The transceiver begins again in the place in the cycle where it last stopped.



1.1

A. 1. 1. 1.

SET MODE 8.

8 - 2 SUBAUDIBLE TONES

One of 38 different subaudible tone encoder frequencies can be programmed to access a repeater or 37 different tone encoder/decoder frequencies (when an optional UT-40 TONE SQUELCH UNIT is installed).

The IC-4GE cannot have subaudible tones programmed. The IC-4GA can be programmed only if the UT-40 is installed.

- 1) Select VFO mode using the [V/M] SWITCH.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to select SET mode.
- 3) Push the [V/M] SWITCH several times until "TO" appears in place of the memory channel number.
- 4) Push the [10k] SWITCH to select a required tone frequency.
- 5) Push the [WR] SWITCH to return to VFO mode, or push the [V/M] SWITCH to program the next parameter.

When duplex mode is selected the transmit frequency is lower or higher than the receive frequency with this offset.

- 1) Select VFO mode using the [V/M] SWITCH.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to select SET mode.
- 3) Push the [V/M] SWITCH several times until "OF" appears in place of the memory channel number.
- 4) Select the offset frequency using the DIGIT UP/DOWN SWITCHES.
- 5) Push the [WR] SWITCH to return to VFO mode, or push the [V/M] SWITCH to program the next parameter.



8-3 OFFSET FREQUENCY



8. SET MODE

8-4 TUNING STEPS

When the [10k] SWITCH is pushed in VFO mode, the transceiver changes in one of following tuning steps:

IC-4GA/GAT : 5, 10, 15, 20, 25kHz IC-4GE : 12.5, 25kHz

- 1) Select VFO mode using the [V/M] SWITCH.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to select SET mode.
- 3) Push the [V/M] SWITCH several times until "TS" appears in p ace of the memory channel number.
- 4) Push the [10k] SWITCH to select a desired tuning step.
- 5) Push the [WR] SWITCH to return to VFO mode, or push the [V/M] SWITCH to program the next parameter.

NOTE: The above 2 types of tuning steps (minimum step 5kHz and 12.5kHz) can be changed by one of the CPU-resetting methods. Refer to p. 26 for CPU resetting.

The purpose of programmed scan is to monitor a particular section of the band. Programmed scan edges are programmed in the following way:

- 1) Select VFO mode using the [V/M] SWITCH.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to select SET mode.
- 3) Push the [V/M] SWITCH several times until "A" appears in place of the memory channel number.



8-5 SCAN EDGES



SET MODE 8.

4) Select the upper or lower scan edge using the DIGIT UP/DOWN SWITCHES in the same manner as selecting an operating frequency.



- 5) Push the [V/M] SWITCH once to select the other side of the scan edge.
 - "b" appears on the FUNCTION DISPLAY.
- 6) Select the other side band edge using DIGIT UP/DOWN SWITCHES in the same manner as selecting an operating frequency.
- 7) Push the [WR] SWITCH to return to VFO mode, or push the [V/M] SWITCH to program the next parameter.

8-6 POWER SAVER FUNCTION



- The convenient power saver function can be turned ON and OFF for data comunications such as packet or AMTOR.
- 1) Select VFO mode using the [V/M] SWITCH.
- 2) Push and hold the [FUNCTION] SWITCH and then push the [V/M] SWITCH to select SET mode.
- 3) Push the [V/M] SWITCH several times until "P" appears in place of the memory channel number.
- 4) Push the [10k] SWITCH to alternately turn the power saver ON and OFF.
 - "on" or "oFF" appears in place of the memory channel number.
- 5) Push the [WR] SWITCH to return to VFO mode, or push the [V/M] SWITCH to program the next parameter.

9. MAINTENANCE

TROUBLESHOOTING

PROBLEM	SOLUTION
Power does not come ON.	• Be sure the connection between the battery pack and transceiver is correct and the terminal is not dirty.
	• Be sure the battery pack is not exhausted.
No sound comes from the speaker.	• Be sure the [SQL] CONTROL is not turned too far clockwise.
	• Be sure the optional UT-40 TONE SQUELCH UNIT is turned ON.
The TRANSMIT INDICA- TOR does not light up during transmission.	• Be sure the battery pack is not exhausted.
No contact possible with	• Be sure the transceiver is not set in duplex mode.
another station.	• Be sure another station is not using the tone squelch function or your tone frequency is not the same as another station's.
Repeater cannot be accessed.	• Be sure the subaudible tone frequency is correct.
	• Be sure the offset frequency is correct.
	 Be sure your output power reaches the repeater. For example, LOW power may be set.
Frequency is not set.	• Be sure the lock function is turned OFF.
	• Be sure the transceiver is not in CALL CHAN- NEL mode.
	• Be sure the transceiver is not in MEMORY mode.
Scan does not operate.	• Be sure the squelch is closed.
	• Be sure scan edge A frequency does not equal scan edge b frequency. (for programmed scan.)
	 Be sure all memory channels are not programmed as skip channels (for memory scan).
BACKUP BATTERY	as skip channels (for memory scan). The usual life of the backup battery is more that years of the backup battery is exhausted, the tr

years. If the backup battery is exhausted, the transceiver operates normally but frequencies cannot remain memorized when the battery pack is detached.

MAINTENANCE 9.

RESETTING THE CPU

NOTE: After resetting the CPU, all information you have programmed into memory channels will be erased.

When the FUNCTION DISPLAY displays erroneous information, the CPU should be reset before taking the transceiver to an ICOM Service Center.

Minimum tuning steps of 5kHz or 12.5kHz can also be changed by resetting the CPU. The CPU can be reset using either of the 2 methods shown below.

- 1) Turn the power ON.
- 2) Push and hold the [LIGHT] and [FUNCTION] SWITCHES continuously until reaching item 4), then turn power OFF.
- 3) Turn the power ON again.
 - All segments in the FUNCTION DISPLAY light up.
- 4) After the FUNCTION DISPLAY returns to its normal condition, release the [LIGHT] and [FUNCTION] SWITCHES.
- 1) Turn the power ON.
- Push and hold the [LIGHT] and [WR] SWITCHES continuously until reaching item 4), then turn power OFF.
- 3) Turn the power ON again.
 - All segments in the FUNCTION DISPLAY light up.
- After the FUNCTION DISPLAY returns to its normal condition, release the [LIGHT] and [WR] SWITCHES.

(1) IC-4GA/GAT (Minimum tuning step: 5kHz)



(2) IC-4GE (Minimum tuning step:



10. SPECIFICATIONS

GENERAL

 Frequency coverage 	IC-4GAT (U.S.A. version)	440.00 ~ 450.00MHz	
	IC-4GA/GAT/GE	430.00 ~ 440.00MHz	
• Mode	F3 (FM)		
• Tuning step increment :	IC-4GA/GAT	5, 10, 15, 20 or 25kHz	
(initial)	IC-4GE	12.5 or 25kHz	
Memory channels	IC-4GA/GAT	20 plus Call channel	
	IC-4GE	20	
Antenna impedance	50 Ω unbalanced	-	
• Power supply requirement	$5.5 \sim 16.0 V$ DC negative ground		
• Current drain	Receive Power saved typical	12mA	
(at 13.2V DC)	Max. audio output	250mA	
	Transmit HIGH 2.3A	•	
	LOW 1.2A		
• Usable temperature range	$-10^{\circ}C \sim +60^{\circ}C$		
•			
• Dimensions	IC-4GAT (U.S.A. version)	65(W) x 151(H) x 35(D)mm	
		(with BP-70) .	
	IC-4GA/GE	65(W) x 130(H) x 35(D)mm	
		(with IC-BP3)	
• Weight	IC-4GAT (U.S.A. version)	500g (with BP-70)	
	IC-4GA/GE	430g (with IC-BP3)	
		San 1	
• Output power	: HIGH 6W		
(at 13.2V DC)	LOW 1W		
Modulation system	: Variable reactance frequency modulation		
· · · · · · · · · · · · · · · · · · ·	±5kHz		
• Spurious emissions	: Less than –60dB	Downloaded by	
Microphone impedance	: 2kΩ	-	
		RadioAmateur.EU	

RECEIVER

 Receiver system Intermediate frequencies 	:	Double-conversion superheterodyne 1st 23.15MHz 2nd 455kHz
 Sensitivity 	:	Less than $0.25\mu V$ for 12dB SINAD
 Spurious response rejection 	:	Less than –60dB
 Audio output power 	:	More than 400mW at 10% distortion with an 8Ω load
 Audio output impedance 	:	Ω8

All stated specifications are approximate and subject to change without notice or obligation.

• MEMO•

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Please record the serial number of your IC-4GA/GAT/GE transceiver below for future servicing reference:

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Serial number	:	
Date of purchase	:	
Place where purchased	:	

Count on us!



Downloaded by RadioAmateur.EU

Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan