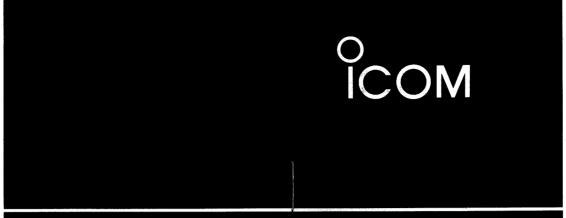
Count on us!



INSTRUCTION MANUAL

UHF FM TRANSCEIVER

IC-4GAT IC-4GA IC-4GE

Icom Inc.

6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan

Icom Inc.



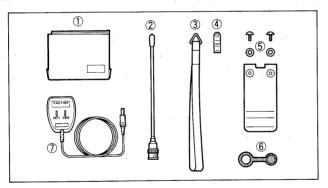
FOREWORD

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 TRANSCEIVER.

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		. 1
② Flexible antenna		. 1
③ Handstrap		. 1
4 Handstrap clip		. 1
⑤ Belt clip, washers and screws	1	set
Rainproof cap		. 1
Wall charger*2		. 1
*1 BP-70 for IC-4GAT (U.S.A. version)		
10 DD2 f - 10 4CA/CE / Averagin and Europe versions		

- *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)
- *2 BC-16U for IC-4GAT (U.S.A. version)
 BC-27 for IC-4GA (Australia version)
 BC-26E for IC-4GE (Europe version)
 No charger included for IC-4GAT (Southeast Asia version)

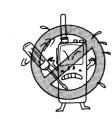
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1. CAUTIONS



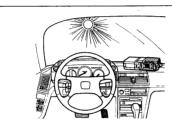
NEVER use strong cleaning agents such as benzine or thinner on the transceiver.



NEVER disassemble the transceiver as it may cause trouble.



NEVER use chargers other than those suggested on p. 10.



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



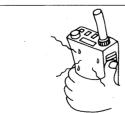
AVOID using the transceiver for long periods in direct sunlight.



AVOID using the transceiver in places subject to excessive cold.



AVOID using the transceiver in excessively dusty places.



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.

10. SPECIFICATIONS

■ GENERAL

• Frequency coverage

IC-4GAT (U.S.A. version) 440.00 ~ 450.00MHz IC4GA/GAT/GE 430.00 ~ 440.00MHz

Mode

F3 (FM)

• Tuning step increment (initial)

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

Memory channels

20 plus Call channel IC-4GA/GAT IC-4GE 20

• Antenna impedance

: 50Ω unbalanced

• Power supply requirement :

5.5 ~ 16.0V 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°C ~ +60°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
Application of the second	(with IC-BP3)

Weight

IC-4GAT (U.S.A. version)	500g (with BP-70)
IC-4GA/GE	430g (with IC-BP3)

■ TRANSMITTER

 Output power (at 13.2V DC) : HIGH 6W 1W LOW

Modulation system

: Variable reactance frequency modulation

Max. frequency deviation

: ±5kHz

Spurious emissions

: Less than -60dB

• Microphone impedance

: 2kΩ

■ RECEIVER

• Receiver system

Double-conversion superheterodyne

23.15MHz

• Intermediate frequencies

2nd 455kHz

Sensitivity

: Less than 0.25µV 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

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
servici	ng refer	ence:							

Serial number	:	
Date of purchase	:	

Place where purchased: