OICOM

INSTRUCTION MANUAL

SURVIVAL CRAFT 2-WAY RADIO

IC-GM1600E

Icom Inc.



RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY IN A BOWL OF FRESH WATER after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's keys, switches, and controllers may become unusable, due to salt crystallization, and/or the charging terminals of the battery pack may corrode.

NOTE: If the transceiver's waterproof protection appears defective, carefully clean it with a soft, damp (fresh water) cloth, then dry it before operating. The transceiver may lose its waterproof protection if the case, jack cap, or connector cover is cracked or broken, or the transceiver has been dropped. Contact your lcom distributor or your dealer for advice.

DISPOSAL



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their

working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

PREFACE

Thank you for purchasing this Icom transceiver. The IC-GM1600E SURVIVAL CRAFT 2-WAY RADIO is designed and built with Icom's state of the art technology and craftsmanship. With proper care this product should provide you with years of trouble-free operation.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL—This instruction manual contains important operating instructions for the IC-GM1600F

EXPLICIT DEFINITIONS

WORD	DEFINITION
△DANGER!	Personal death, serious injury or an explosion may occur.
△WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

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Icom is not responsible for the destruction or damage to the Icom transceiver, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightnings, or other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceiver with any equipment that is not manufactured or approved by Icom.

PRECAUTION

⚠ DANGER! NEVER short terminals (or charging terminals) of the battery pack. Also, current may flow into nearby metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in handbags, and so on. Simply carrying with or placing near metal objects such as a key, and so on may cause shorting. This may damage not only the battery pack, but also the transceiver.

⚠ WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠ WARNING! NEVER hold the transceiver so that the antenna is closer than 2.5 cm from exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm away from the lips and the transceiver is vertical.

NEVER connect the transceiver to a power source other than the BP-234, BP-224* or BP-252. Such a connection will ruin the transceiver.

* China version only

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below –20°C or above +55°C.

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KEEP the transciever out of the reach of children.

KEEP the transceiver at least 0.9 meters away from your vessel's magnetic navigation compass.

MAKE SURE the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.

BE CAREFUL! The IC-GM1600E employs waterproof construction, which corresponds to IMO resolution MSC.149 (77) (1 m depth for 5 minutes). However, once the transceiver has been dropped, waterproofing cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal.

NOTE:

- According to IMO resolution MSC. 149 (77) (adopted on 3 June 2003), the following regulation has been executed.
- "The equipment should have provisions for its attachment to the clothing of the user and also be provided with a wrist or neckstrap. For safety reasons, the strap should include a suitable weak link to prevent the bearer from being ensnared."
- Instead of the handstrap, a neckstrap is supplied with the equipment on or after 1st July, 2005.

Priorities

- Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- You must monitor Channel 16 when you are not operating on another channel.
- False or fraudulent distress calls are prohibited under law.

♦ Privacy

- Information overheard but not intended for you cannot lawfully be used in any way.
- Indecent or profane language is prohibited.

♦ Transceiver licenses

(1) SHIP STATION LICENSE

When your craft is equipped with a VHF FM transceiver, you must have a current transciever station license before using the transceiver. It is unlawful to operate a ship station which is not licensed.

Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for transceiver purposes.

(2) OPERATOR'S LICENSE

A restricted Radiotelephone Operator Permit is the license most often held by small vessel transceiver operators when a transceiver is not required for safety purposes.

The Restricted Radiotelephone Operator Permit must be posted near the transceiver or be kept with the operator. Only a licensed transceiver operator may operate a transceiver.

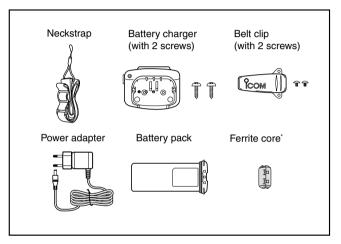
However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a transceiver is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

2

SUPPLIED ACCESSORIES AND ATTACHMENTS

■ Supplied accessories



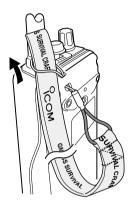
* Attach the ferrite core to the power adapter before charging.

See page 16 for details.

■ Attachments

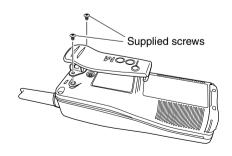
♦ Neckstrap

To attach the neckstrap, pass the neckstrap through the loop on the top of the transceiver as illustrated at right.



♦ Belt clip

Attach the belt clip to the transceiver as illustrated below.



SUPPLIED ACCESSORIES AND ATTACHMENTS

♦ Battery pack

To remove the battery pack:

Turn the screw counterclockwise, then pull the battery pack in the direction of the arrow as shown below.

To attach the battery pack:

Insert the battery pack in the IC-GM1600E completely, then turn the screw clockwise

NEVER remove or insert the battery pack when the transceiver is wet or soiled. This may result water or dust getting into the transceiver/the battery pack and may result \mathscr{U} in the transceiver being damaged.

NOTE: When the lock screw does not easily (feels tight), check to ensure the battery pack is sufficiently inserted to the transceiver. DO NOT bang or cause high impact to the battery pack, as this may damage the battery pack/or the transceiver

Screw position when removing battery Screw position when attaching battery

NOTE: When removing or attaching the battery pack, use a coin or flat-blade screwdriver to loosen or tighten the bottom screw.

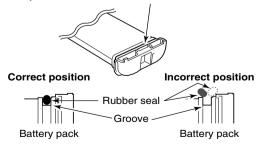
CAUTION:

When attaching or removing a battery pack, make sure the rubber seal is set in the groove of the battery packcorrectly. If the seal is not neatly in the groove it may be damaged when attaching the battery pack.

If the seal is damaged, waterproofing is not guaranteed.

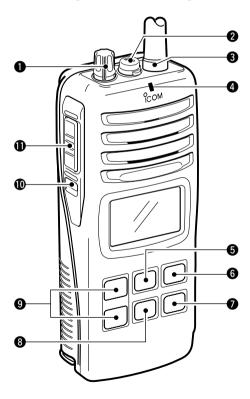
When att not adhe when att reduced. When attaching a battery pack, make sure dust or else does not adhere to the rubber seal. If dust or else is on the seal when attaching a battery pack, the water resistant may be

Make sure both the rubber seal (purple) is set to the groove correctly and dust or else does not adhere to it.



PANEL DESCRIPTION

■ Front, top and side panels



1 VOLUME CONTROL [VOL]

Turns power ON and adjusts the audio level.

2 MICROPHONE CONNECTOR [MIC/SP]

Connects the optional external microphone.

NOTE: Attach the [MIC/SP] cap when the optional speaker-microphone is not used.

3 ANTENNA

Fixed type.

4 TRANSMIT/RECEIVE INDICATOR

Lights green while receiving a signal or when the squelch is open, and lights red while transmitting (lights orange while VOX function is used).

6 CALL CHANNEL SWITCH [CALL]

- ⇒ Selects the call channel when pushed. (p. 7)
- → Push for 3 seconds to enter call channel programming condition. (p. 9)

6 CHANNEL SWITCH [CH]

Push to return the previous condition when priority channel or call channel is selected. (p. 7)

TRANSMIT POWER/LOCK SWITCH [Hi/Lo• +-O]

- ⇒ Selects high or low power when pushed. (p. 8)
- → Toggles the lock function ON/OFF when pushed for 1 second. (p. 10)

3

3 CHANNEL 16 SWITCH [16]

Selects Channel 16 when pushed. (p. 7)

9 CHANNEL UP/DOWN SWITCHES [▲]/[▼]

- ⇒ Selects an operating channel. (pp. 7–8)
- ⇒ Selects the SET mode condition of the item. (p. 11)
- Selects the SET mode item when pushed with [SQL

 MONI]. (p. 11)

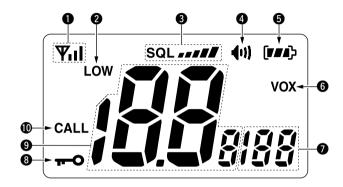
(D) SQUELCH SWITCH [SQL•MONI]

- Push this switch, then adjust the squelch level with [▲]/[▼]. (p. 9)
- → Manually opens the squelch for monitoring the channel while pushed and held. (p. 10)
- ➡ While pushing this switch, turn power ON to enter the set mode. (p. 11)

(I) PTT SWITCH [PTT]

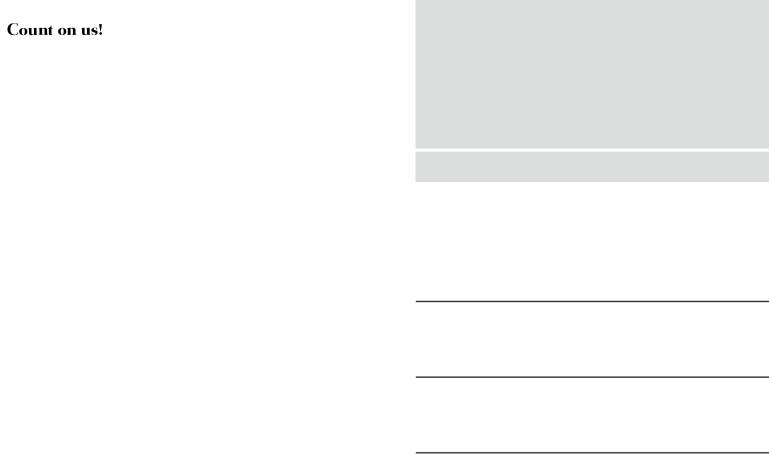
Hold down to transmit: release to receive.

■ Function display



- **1** SIGNAL STRENGTH INDICATOR (pp. 10, 13) Shows the relative signal strength while receiving signals.
- **2 TRANSMIT POWER INDICATOR** (p. 8)
 - ⇒ "LOW" appears when low power is selected.
 - → No indication appears when high power is selected.
- **3 SQUELCH LEVEL INDICATOR** (p. 9) Show the squelch level.
- 4 MONITOR INDICATOR (p. 10)

Appears when the monitor function is activated.



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