



INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER **IC-M31**

Icom Inc.



IN CASE OF EMERGENCY

If your vessel requires assistance, contact other vessels and the Coast Guard by sending a distress call on Channel 16.

○ **USING CHANNEL 16**

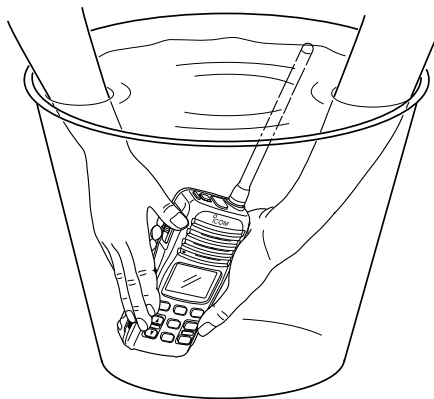
DISTRESS CALL PROCEDURE

1. "MAYDAY MAYDAY MAYDAY."
2. "THIS IS" (name of vessel)
3. Your call sign or other indication of the vessel.
4. "LOCATED AT" (your position)
5. The nature of the distress and assistance required.
6. Any other information which might facilitate the rescue.

RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY WITH FRESH WATER after exposure to saltwater, and dry it before operation. Otherwise, the transceiver's keys, switches and controllers may become inoperable due to salt crystallization.

NOTE: DO NOT wash the transceiver in water if there is any reason to suspect the waterproofing may not be effective. For example, in cases where the battery pack rubber seal is damaged, the transceiver/battery pack is cracked or broken, or has been dropped, or when the battery pack is detached from the transceiver.



FOREWORD


Thank you for purchasing this Icom product. The IC-M31 VHF MARINE TRANSCEIVER 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-M31.

EXPLICIT DEFINITIONS

WORD	DEFINITION
 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.

FEATURES

Waterproof construction

Built tough to withstand the punishing marine environment, the transceiver's submersible construction meets IPX7* requirements for waterproof protection (1 meter depth for 30 min.).

* Only when the battery pack, top plate and flexible antenna are attached.

Dualwatch and tri-watch functions

Convenient functions which allow you to monitor the distress channel (Ch 16) while receiving a channel of your choice—dual watch; or monitor the distress channel and another channel while receiving a channel of your choice—tri-watch.

Large, easy-to-read LCD

With dimensions of 16(H) × 32(W) mm, the function display is easy to read and shows operating conditions at a glance. Backlighting and contrast can be adjusted to suit your preferences.

Simple operation

9 large buttons on the front panel provide user-friendly operation. The independent volume and channel buttons are located on the front panel for convenient one-hand operation.

PRECAUTION

⚠ 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 very close to, or touching 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.

⚠ WARNING! NEVER connect the transceiver to a power source other than the BP-223, BP-224, or BP-252. Such a connection will ruin the transceiver.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below -15°C or above $+55^{\circ}\text{C}$.

KEEP the transceiver out of the reach of children.

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

BE CAREFUL! The transceiver's right-side panel will become hot when operating continuously for long periods.

BE CAREFUL! The transceiver meets IPX7* requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal.

* Only when the battery pack, top plate and flexible antenna are attached.

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

After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue.

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◇ **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.

◇ **Radio licenses**

(1) SHIP STATION LICENSE

When your craft is equipped with a VHF FM transceiver, you must have a current radio 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 radio purposes.

(2) OPERATOR'S LICENSE

A restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio 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 radio 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 radio telephone 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.

■ Supplied accessories

The following accessories are supplied:

	Qty.
• Flexible antenna	1
• Handstrap	1
• Belt clip	1
• Battery pack	1
• Battery charger (with 2 screws)	1
• AC adapter* ¹	1
• Top plate (double-sided tape)* ²	1

*¹ Not supplied with some versions.

*² Use the top plate as a spare. Ask your dealer for details.

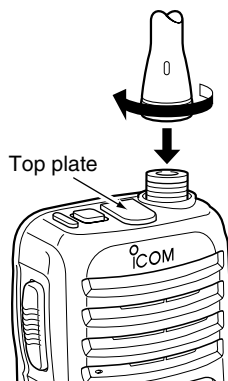
■ Attachments

◇ Flexible antenna

Connect the supplied flexible antenna to the antenna connector.

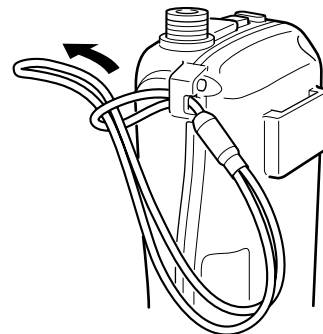
CAUTION:

- **NEVER** carry the transceiver by holding the antenna.
- Transmitting without an antenna may damage the transceiver.



◇ Handstrap

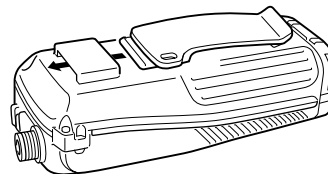
Pass the handstrap through the loop on the side of the transceiver as illustrated at right. Facilitates carrying.



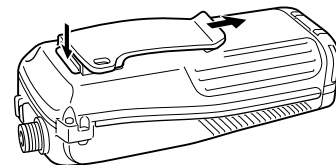
◇ Belt clip

Attach the belt clip to the transceiver as illustrated below.

To attach the belt clip



To remove the belt clip



2 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.

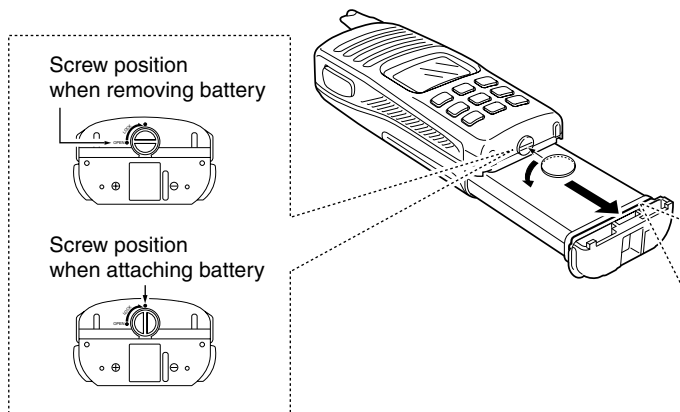
To attach the battery pack:

Insert the battery pack in the IC-M31 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/battery pack and may result in the transceiver being damaged.

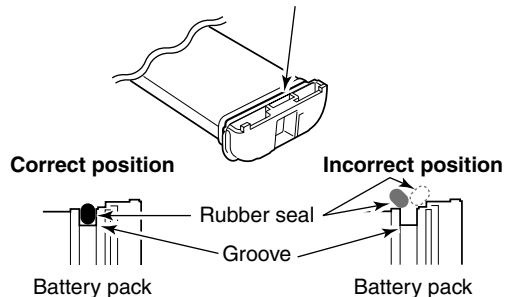
NOTE: When removing or attaching the battery pack, use a coin or flat-blade screwdriver to loosen or tighten the bottom screw.

CAUTION: When attaching or removing a battery pack, make sure the rubber seal is set in the groove of the battery pack correctly. 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.

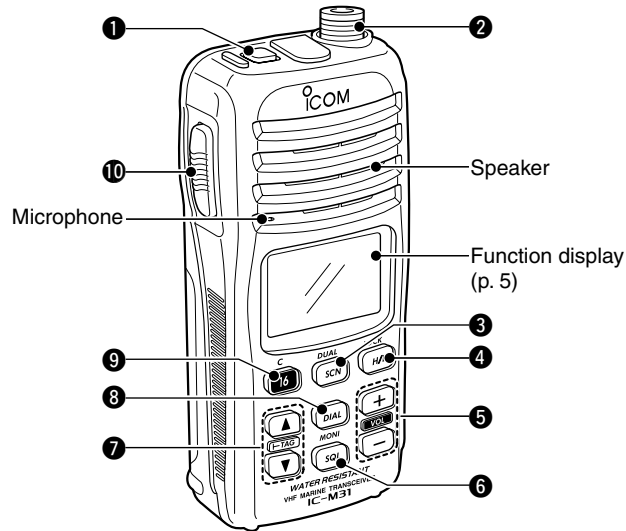


NOTE: When attaching a battery pack, make sure dust or else does not adhere to the rubber seal. If dust or else is on the seal when attaching a battery pack, the water resistant may be reduced.

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



■ Front, top and side panels



❶ POWER SWITCH [PWR]

Push and hold to turn power ON and OFF.

❷ ANTENNA CONNECTOR (p. 2)

Connects the supplied antenna.

❸ SCAN/DUAL KEY [SCN•DUAL]

- Starts and stops normal or priority scan. (p. 14)
- Enters watch mode when pushed for 1 sec. (p. 15)
- Exits watch mode when pushed during watch operation. (p. 15)

❹ TRANSMIT POWER/LOCK KEY [H/L LOCK]

- Selects high or low power when pushed. (p. 10)
- Toggles the lock function ON/OFF when pushed for 1 sec. (p. 12)

❺ VOLUME UP/DOWN KEYS [+]/[-]•[VOL]

- Adjusts the volume level. (p. 9)
- After pushing [SQL•MONI], push to adjust the squelch level. (p. 9)

❻ SQUELCH KEY [SQL•MONI]

- Push this key, then adjust the squelch level with [+]/[-]. (p. 9)
- Manually opens the squelch for monitoring the channel while pushed and held. (p. 12)
- While pushing this key, turn power ON to enter the set mode. (p. 16)

Continue to the next page.

Count on us!

< Intended Country of Use >

- ☐ GER ☐ FRA ☐ ESP ☐ SWE
☐ AUT ☐ NED ☐ POR ☐ DEN
☐ GBR ☐ BEL ☐ ITA ☐ FIN
☐ IRL ☐ LUX ☐ GRE ☐ SUI
☐ NOR