

VHF MARINE TRANSCEIVER

**IC-M21** 

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.

#### **OUSING 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)
- 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 salt water.

Otherwise, the transceiver's keys, switches and controllers may become inoperable due to salt crystallization.



## O ICOM

# 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.

Kind of equipment: VHF MARINE TRANSCEIVER

Type-designation: IC-M21

#### Version (where applicable):

This compliance is based on conformity with the following harmonised standards, specifications or documents:

i) _	EN 301 178-2	V1.1.1 (2000-08)
ii)	EN 60945	1997
iii)	EN 60950	1992
iv)	EN 300 698-2	V1.1.1 ( 2000-8)
v) _		
vi)		

**C** € 0560 ①

Düsseldorf 30th Nov. 2001
Place and date of issue

Icom (Europe) GmbH Himmelgeister straße 100 D-40225 Düsseldorf

Authorized representative name

T. Maebayashi General Manager

Signature

Icom Inc.

### **FOREWORD**

Thank you for purchasing this Icom product. The IC-M21 VHF MARINE TRANSCEIVER is designed and built with Icom's superior 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-M21.

## **EXPLICIT DEFINITIONS**

WORD	A DEFINITION DESIGNATION
AWADAWA	Personal injury, fire hazard or electric shock
<b>AWARNING</b>	may occur.
CAUTION	Equipment damage may occur.
the best all references	If disregarded, inconvenience only. No risk
NUTE	of personal injury, fire or electric shock.

## **FEATURES**

#### **™** Water resistant construction

Built tough to withstand the punishing marine environment, the IC-M21 meets JIS water resistant specification grade 7 while using BP-223 or BP-224.

#### **I** Dual watch 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.

\*This function may not be available depending on version.

#### Large, easy-to-read LCD

With dimensions of  $24(H) \times 35(W)$  mm, the IC-M21's 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**

Ergonomic design with a minimum number of switches and controls provides simple intuitive operation.

## **CAUTIONS**

**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 (2 to 4 inches) away from the lips and the transceiver is vertical.

**NEVER** connect the transceiver to a power source other than the BP-223 or BP-224. Such a connection will ruin the transceiver.

**AVOID** using or placing the transceiver in direct sunlight or in areas with temperatures below –15°C or above +55°C.

**KEEP** the transceiver out of the reach of children.

**KEEP** the transceiver at least 0.9 meter (3.0 ft) away from your vessel's magnetic navigation compass.

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

**BE CAREFUL!** The IC-M21 employs water resistant construction, which corresponds to JIS water resistant specification, grade 7 (1 m; 3 ft depth for 30 min.). However, once the transceiver has been dropped, water resistant cannot be guaranteed due to the fact that the transceiver may be cracked, or the water resistant seal damaged, etc.

**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.

Versions of the IC-M21 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.

① 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 programing of this radio, to comply with national licensing requirement.

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#### OF LING HULES

#### **♦** 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.



## ■ Front, top and side panels

#### **1** DIAL/CHANNEL GROUP SWITCH [DIAL]

- Selects and changes the regular channels.
   (p. 6)
- Selects one of 2 regular channels in sequence when pushed for 1 sec. (p. 6)
- International and U.S.A. (U.K. version only)
  channels\* are available for regular channels.
  \*Germany version is International and ATIS
  channels.

#### **②** CHANNEL UP/DOWN SWITCHES [▲]/[▼]

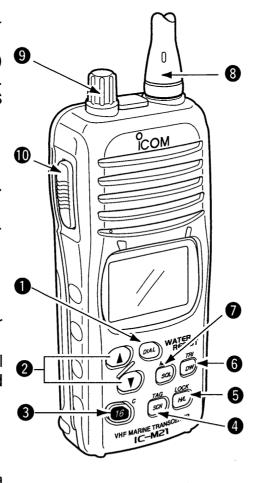
- Select an operating channel.
- Selects the SET mode condition of the item. (p. 13)
- Set the squelch level in the squelch set mode. (p. 7)

#### **3** CHANNEL 16 SWITCH [16•C]

- Selects Channel 16 when pushed. (p. 6)
- Selects the call channel when pushed for 1 sec.
- Enters call Channel write mode when the call channel is selected and this switch is pushed for 3 sec. (p. 9)

#### 4 SCAN/TAG SWITCH [SCN-TAG] (p. 12)

- Starts and stops normal or priority scan.
- Sets and clears the displayed channel as a tag (scanned) channel when pushed for 1 sec.



## **5** TRANSMIT POWER/LOCK SWITCH [H/L•LOCK]

- Selects high, middle or low power when pushed. (p. 8)
- Toggles the lock function ON/OFF when pushed for 1 sec. (p. 7)

## **6 DUALWATCH/TRI-WATCH SWITCH** [DW•TRI] (p. 10)

- Starts dualwatch when pushed momentarily.
- Starts tri-watch when pushed for 1 sec.
- Stops dualwatch/tri-watch when either is activated.

#### SQUELCH SWITCH [SQL•MONI] (p. 7)

- Push this switch, then set the squelch level with [▲]/[▼].
- Manually opens the squelch for channel monitoring when pushed for 1 sec.

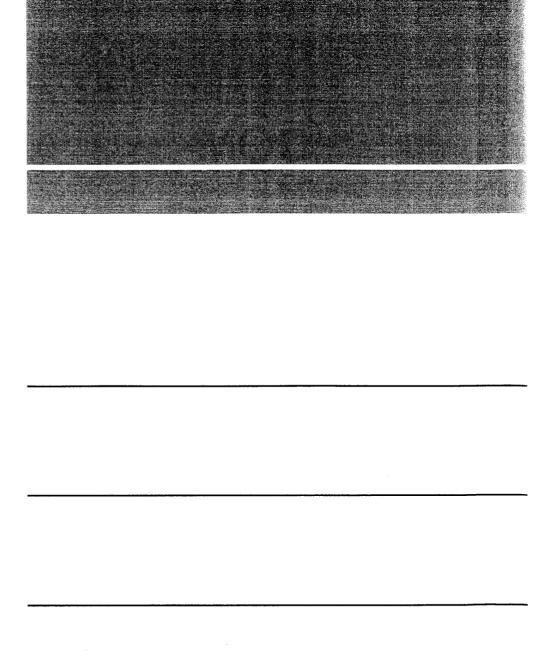
## **3 ANTENNA** (p. 20) Connects the supplied antenna.

## **9 VOLUME CONTROL [OFF/VOL]**Turns power ON and adjusts the audio level.

#### 10 PTT SWITCH [PTT]

Push and hold to transmit: release to receive.

< Intended Country of Use >							
□ BEL □ SWE	□ GRE	☐ ITA ☐ GBR ☐ ESP ☐ FIN	□ LUX □ DEN				



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