



## INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER

# IC-M45EURO

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Icom Inc.

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## FOREWORD

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Thank you for purchasing this Icom product. The IC-M45EURO 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.

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## IMPORTANT

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**READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS INSTRUCTION MANUAL**—This instruction manual contains important operating instructions for the IC-M45EURO.

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## EXPLICIT DEFINITIONS

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WORD	DEFINITION
 <b>WARNING</b>	Personal injury, fire hazard or electric shock may occur.
<b>CAUTION</b>	Equipment damage may occur.
<b>NOTE</b>	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

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## FEATURES

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### **Durable, water-resistant construction**

Built tough to withstand the punishing marine environment, the IC-M45EURO offers reliability you can count on.



### **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.



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

With dimensions of 20(H) × 60(W) mm, the IC-M45EURO's function display is easy to read and shows operating conditions at a glance. Backlighting and contrast can be adjusted to suit your preferences.



### **'Smart' microphone**

Operating channel and transmit output power level settings are easily selectable via the supplied microphone.



### **Simple operation**

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

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## CAUTIONS

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

⚠ **WARNING HIGH VOLTAGE! NEVER** touch the antenna or an internal antenna connector during transmission. This may result in an electric shock or a burn.

**NEVER** connect the transceiver to a power source of more than 16 V DC. This connection will ruin the transceiver.

**AVOID** using or placing the transceiver in direct sunlight or in areas with temperatures below  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) or above  $+60^{\circ}\text{C}$  ( $+140^{\circ}\text{F}$ ).

**DO NOT** operate the transceiver without running the vessel's engine. When your vessel's engine is OFF and the transceiver is transmitting, the vessel's battery will soon become exhausted.

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

**KEEP** the antenna cable and DC power cable as far away as possible from electrical pumps, generators and other electronic instruments to prevent instrument malfunctions.

**KEEP** the transceiver and microphone at least 1 meter away from your vessel's magnetic navigation compass.

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## IN CASE OF EMERGENCY

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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.

**CE** Versions of the IC-M45EURO which display the "CE" symbol on the serial number seal, comply with the essential requirements of the 89/336/EEC directive for Electromagnetic Compatibility.

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# TABLE OF CONTENTS

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FOREWORD .....	ii	4 SET MODE .....	11–12
IMPORTANT .....	ii	■ Entering SET mode .....	11
EXPLICIT DEFINITIONS .....	ii	■ SET mode items .....	11
FEATURES .....	ii	5 CONNECTIONS AND MAINTENANCE .....	13–16
CAUTIONS .....	iii	■ Unpacking .....	13
IN CASE OF EMERGENCY .....	iii	■ Antenna .....	13
TABLE OF CONTENTS .....	iv	■ Fuse replacement .....	13
1 OPERATING RULES .....	1	■ Cleaning .....	13
2 PANEL DESCRIPTION .....	2–4	■ Connections .....	14
■ Front panel .....	2	■ Mounting the transceiver .....	15
■ Microphone .....	3	■ Dimensions .....	16
■ Function display .....	4	6 TROUBLESHOOTING .....	17
3 BASIC OPERATION .....	5–10	7 VHF MARINE CHANNEL LIST .....	18
■ Power ON .....	5	8 SPECIFICATIONS AND OPTIONS .....	19
■ Channel selection .....	5	■ Specifications .....	19
■ Receiving .....	7	■ Options .....	19
■ Transmitting .....	8		
■ Scan function .....	9		
■ Call channel programming .....	10		
■ Display backlighting .....	10		

## ◇ 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

### 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.

### OPERATOR'S LICENSE

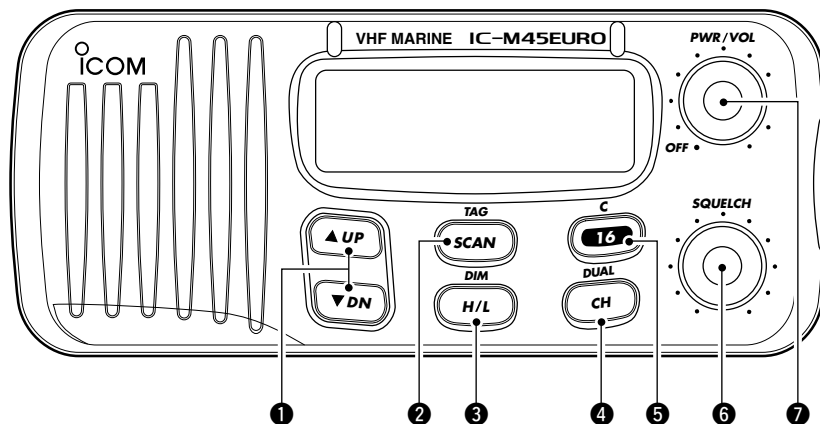
A restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes.

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 panel



### ① CHANNEL UP/DOWN SWITCHES [▲UP]/[▼DN]

Push to select an operating channel. (p. 6)

- Push and hold to 'speed' scroll up or down through the available channels.

### ② SCAN SWITCH [SCAN • TAG]

➡ Push to start/stop scanning. (p. 9)

- Scan type can be selected in SET mode. (p. 12)

➡ Push for 1 sec. to toggle the tag setting for the displayed channel. (p. 9)

### ③ HIGH/LOW POWER SWITCH [H/L • DIM]

➡ Toggles between high and low output powers. (p. 8)

➡ While pushing, push the [UP]/[DN] switches to adjust the display backlighting. (p. 10)

➡ While pushing, push [SCAN] for 3 sec. to clear all tag channels. (p. 9)

### ④ CHANNEL SWITCH [CH • DUAL]

➡ Push to selects the International channel group. (p. 6)

➡ The U.S.A. channel group is also available. To toggle between international and U.S.A. channels, while pushing [H/L], push this switch.

## ⑤ CHANNEL 16 SWITCH [16 • C]

- ➔ Push to select channel 16. (p. 5)
- ➔ Push for 1 sec. to select the call channel (the call channel number is different depend on version). (p. 5)
  - Each group can have it's own call channel programmed.
- ➔ Push for 3 sec. (when a call channel is selected) to enter call channel write mode. (p. 10)
  - Channel indication flashes.

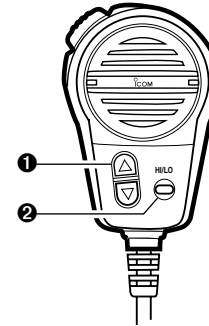
## ⑥ SQUELCH CONTROL [SQUELCH]

Rotate clockwise to eliminate audio noise. (p. 7)

## ⑦ POWER/VOLUME CONTROL [PWR/VOL]

Turns power ON and OFF and adjusts the audio output level.

## ■ Microphone



### ① CHANNEL UP/DOWN SWITCHES [▲]/[▼]

Select an operating channel in the selected channel group.

- These switches can be used instead of the transceiver's [UP]/[DN] switches.

### ② HIGH/LOW POWER SWITCH [HI/LO]

The same function as the transceiver's [H/L] switch—toggles between high and low output powers.

- Pushing this key at power ON turns the microphone keys ON/OFF.

**Count on us!**

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**Icom Inc.**  
6-9-16 Kamihigashi, Hirano-ku, Osaka 547-0002 Japan