



## INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER

# **IC-M93D** **IC-M93D EURO**

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

**Icom Inc.**



Thank you for choosing this Icom product.

This product 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.

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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-M93D and IC-M93D EURO.

This instruction manual includes some functions which are usable only when they are preset by your dealer. Ask your dealer for details.



Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

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

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## EXPLICIT DEFINITIONS

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WORD	DEFINITION
 <b>DANGER!</b>	Personal death, serious injury or an explosion may occur.
 <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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## ABOUT CE AND DOC

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Hereby, Icom Inc. declares that the versions of IC-M93D EURO which have the "CE" symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address:  
<http://www.icom.co.jp/world/support/>

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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.

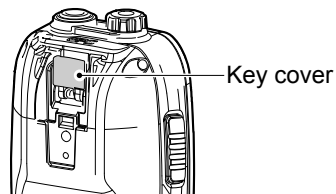
### **USING CHANNEL 16 DISTRESS CALL PROCEDURE**

1. "MAYDAY MAYDAY MAYDAY."
2. "THIS IS ....." (name of vessel).
3. Say your call sign or other indication of the vessel (AND your 9 digit DSC ID, if you have one).
4. "LOCATED AT ....." (your position).
5. State the nature of the distress and assistance required.
6. Give any other information which might facilitate the rescue.

Or, transmit your Distress call using Digital Selective Calling (DSC) on Channel 70.

### **USING DIGITAL SELECTIVE CALLING (Ch 70) DISTRESS CALL PROCEDURE**

1. While lifting up the key cover, hold down [DISTRESS] for 3 seconds until you hear 3 short beeps and then one long beep.
2. Wait for an acknowledgment on Channel 70 from a coast station.
  - After the acknowledgement is received, Channel 16 is automatically selected.
3. Hold down [PTT], then transmit the appropriate information as listed to the left.



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## PRECAUTIONS

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⚠ **DANGER! NEVER** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

⚠ **DANGER! NEVER** use and charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience the ringing, reduce the volume level or discontinue use.

**CAUTION: DO NOT** use harsh solvents such as Benzine or alcohol when cleaning, because they will damage the transceiver surfaces.

**CAUTION: DO NOT** attach the battery unless the flexible antenna, battery pack and jack cover are securely attached to the transceiver. Confirm that the antenna and battery pack are dry before attaching. Exposing the inside of the transceiver to dust or water can cause serious damage to the transceiver.

**CAUTION: DO NOT** place or leave the transceiver in direct sunlight or in places with temperatures below  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) or above  $+60^{\circ}\text{C}$  ( $+140^{\circ}\text{F}$ ) for IC-M93D, and below  $-15^{\circ}\text{C}$  ( $-10^{\circ}\text{C}$  for the Australian version) or above  $+55^{\circ}\text{C}$  for the IC-M93D EURO. The basic operations of the transceiver are guaranteed within the specified operating temperature range. However, the Liquid Crystal Display may not operate correctly, or show an indication in the case of long hours of operation, or after being placed in extremely cold areas.

**CAUTION: DO NOT** modify the transceiver. The specifications may change and then the transceiver may not comply with the requirements of required regulations. The transceiver warranty does not cover any problems caused by unauthorized modification.

**CAUTION: DO NOT** operate the transceiver if it becomes hot after operating it continuously for long periods of time. This may damage the transceiver.

**KEEP** the transceiver and microphone at least 0.9 m (3 feet) away from the vessel's magnetic navigation compass.

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**DO NOT** push [PTT] unless you actually intend to transmit.

**BE CAREFUL!** The IC-M93D and IC-M93D EURO meet 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 speaker microphone jack cover, the optional HM-165, or HM-228 is attached.

Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack from the transceiver when not using it for a long time. Otherwise, the installed battery pack or batteries will become exhausted, and will need to be recharged or replaced.

**BE CAREFUL!** Even if the volume level is set low, the beeps of the Float 'n Flash, DSC alarm and AquaQuake functions are very loud.

**BE SURE** the transceiver power is OFF before connecting the supplied or optional equipment.

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## 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 Icom distributor or your dealer for advice.

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## 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.

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## INFORMATION

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**CAUTION:** Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

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## TABLE OF CONTENTS

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IMPORTANT.....	i
EXPLICIT DEFINITIONS.....	i
ABOUT CE AND DOC.....	i
IN CASE OF EMERGENCY.....	ii
PRECAUTIONS.....	iii
RECOMMENDATION.....	iv
DISPOSAL.....	iv
INFORMATION.....	v
<b>1. OPERATING RULES.....</b>	<b>1</b>
<b>2. SUPPLIED ACCESSORIES AND ATTACHMENTS....</b>	<b>2-3</b>
■ Supplied accessories .....	2
■ Attachments .....	2
<b>3. PANEL DESCRIPTION.....</b>	<b>4-8</b>
■ Panel description .....	4
■ Display description .....	5
■ Using the software keys .....	7
■ Software keys .....	7
<b>4. PREPARATIONS .....</b>	<b>9-10</b>
■ Entering the MMSI code .....	9
■ Entering the ATIS ID (For Dutch and German versions) .....	10
<b>5. BASIC OPERATIONS .....</b>	<b>11-15</b>
■ Selecting a channel.....	11
■ Adjusting the volume level .....	13
■ Adjusting the squelch level .....	13

■ Setting the Call channel .....	13
■ Receiving and transmitting.....	14
■ Lock function.....	14
■ Monitor function .....	15
■ AquaQuake Water Draining function.....	15
■ Editing a channel name .....	15
<b>6. SCAN (Except for the Dutch version) .....</b>	<b>16–17</b>
■ Scan types .....	16
■ Setting Favorite channels .....	17
■ Starting a scan .....	17
<b>7. DUALWATCH/TRI-WATCH</b> (Except for the Dutch version) .....	<b>18</b>
■ Description .....	18
■ Operation .....	18
<b>8. DSC OPERATION .....</b>	<b>19–50</b>
■ DSC address ID .....	19
■ Entering the position and time .....	21
■ Sending DSC calls (Distress).....	22
■ Sending DSC calls (other) .....	25
■ Receiving DSC calls (Distress).....	39
■ Receiving DSC calls (other).....	41
■ DSC Log .....	46
■ DSC Settings .....	48
<b>9. OTHER FUNCTIONS .....</b>	<b>51–58</b>
■ MOB (Man OverBoard).....	51

■ Waypoint .....	52
■ Navigation .....	54
■ Compass .....	56
■ GPS/GNSS .....	56
■ Information screen .....	58
<b>10.MENU SCREEN .....</b>	<b>59–64</b>
■ Using the Menu screen .....	59
■ Menu screen items.....	60
■ Radio Settings items.....	61
■ Configuration items.....	63
<b>11.BATTERY CHARGING.....</b>	<b>65–68</b>
■ Regular battery charger .....	67
■ Optional battery charger .....	68
<b>12.OPTIONAL SPEAKER MICROPHONE.....</b>	<b>69</b>
■ About the HM-165.....	69
■ Attaching the HM-165 .....	69
<b>13.TROUBLESHOOTING .....</b>	<b>70</b>
<b>14.SPECIFICATIONS AND OPTIONS.....</b>	<b>71</b>
■ Specifications .....	71
■ Options.....	73
<b>15.CHANNEL LIST .....</b>	<b>74–76</b>
<b>16.SAFETY TRAINING INFORMATION .....</b>	<b>77</b>
<b>INDEX.....</b>	<b>78–80</b>

## ◇ 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

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 application. This government-issued license states 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 or kept with the operator. Only a licensed radio operator may operate a transceiver.

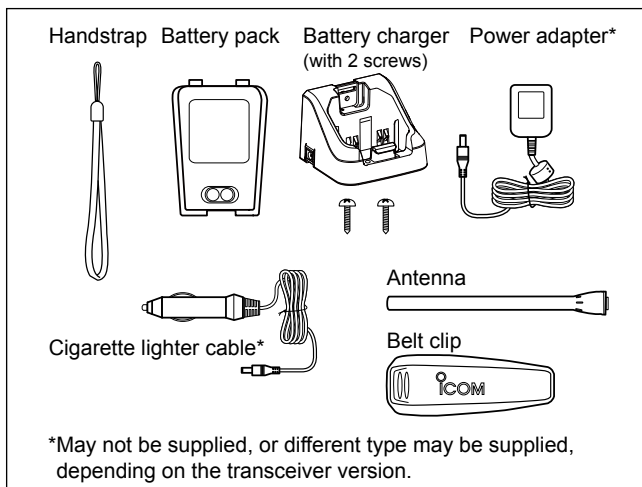
However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

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.

**NOTE:** Even though the transceiver is capable of operation on VHF marine channels 3, 21, 23, 61, 64, 81, 82 and 83, according to FCC regulations these simplex channels cannot be lawfully used by the general population in USA waters.



## ■ Supplied accessories



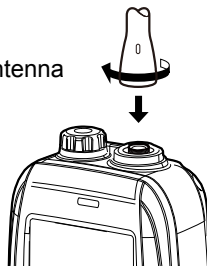
## ■ Attachments

### ◇ Flexible antenna

Connect the supplied antenna to the antenna connector.

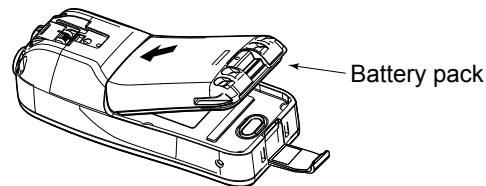
#### CAUTION:

- **NEVER** carry the transceiver by holding the antenna.
- **DO NOT** transmit without an antenna.

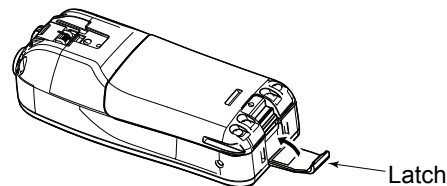


### ◇ Battery pack

1. Attach the battery pack to the transceiver.



2. Lock the battery pack with the latch.



**CAUTION: NEVER** remove or attach the battery pack when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver and battery pack, and may result in them being damaged.

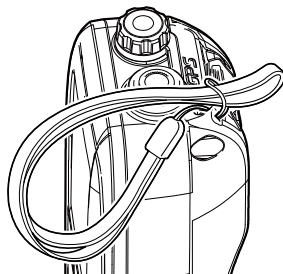
**BE CAREFUL!** The latch is tightly locked, so use caution when releasing it. **DO NOT** use your fingernail. Use the edge of a coin or screwdriver tip to carefully release it.

## 2 SUPPLIED ACCESSORIES AND ATTACHMENTS

### ■ Attachments (Continued)

#### ◇ Handstrap

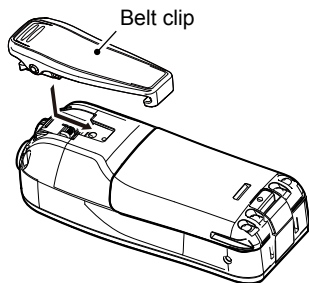
Pass the handstrap through the loop on the back side of the transceiver to make it easy to carry.



#### ◇ Belt clip

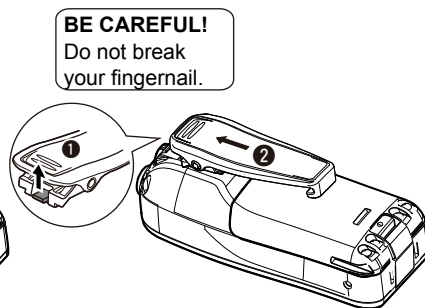
Attach or detach the belt clip to/from the transceiver as shown below.

##### *To attach the belt clip*



##### *To detach the belt clip*

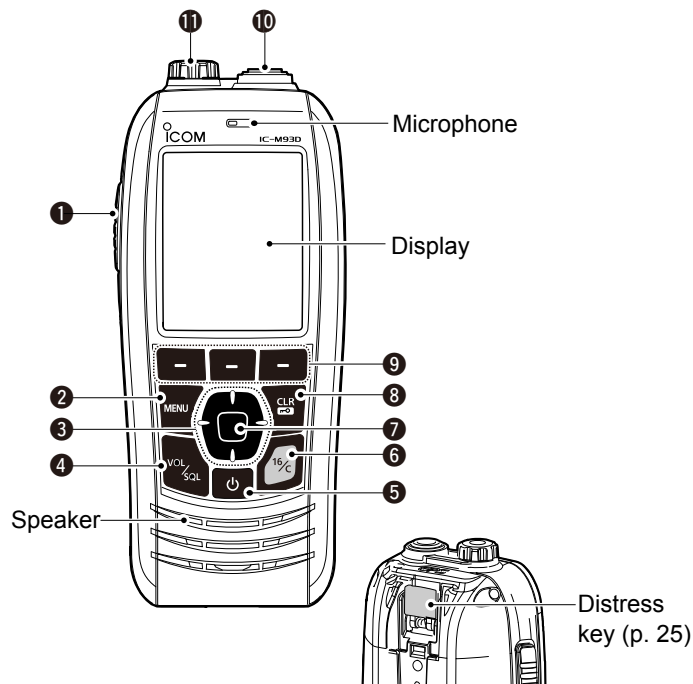
Lift the tab up ❶ and slide the belt clip in the direction of the arrow ❷.



##### **BE CAREFUL!**

Do not break your fingernail.

## ■ Panel description



### ❶ PTT SWITCH [PTT]

Hold down to transmit, release to receive.

### ❷ MENU KEY

Push to display or close the Menu screen.

### ❸ UP/DOWN/LEFT/RIGHT KEYS [▲]/[▼]/[◀]/[▶]

- Push [▲] or [▼] to select the operating channel, Menu items, Menu settings, and so on.
- Push [◀] or [▶] to slide through the key functions that are assigned to the software keys. (p. 7)
- Push to select the desired character or number in the entry mode. (pp. 9, 10, 15, 19, 21)

### ❹ VOLUME/SQUELCH KEY [VOL/SQL] (p. 13)

- Push once to display the volume level setting screen.
- Push twice to display the squelch level setting screen.
- Hold down for 1 second to turn ON the Monitor function. (p. 15)

### ❺ POWER KEY [⏻]

Hold down for 1 second to turn the transceiver ON or OFF.

### ❻ CHANNEL 16 KEY [16/C]

- Push to select Channel 16. (p. 11)
- Hold down for 1 second to select the Call channel. (p. 11)

### ❼ ENTER KEY

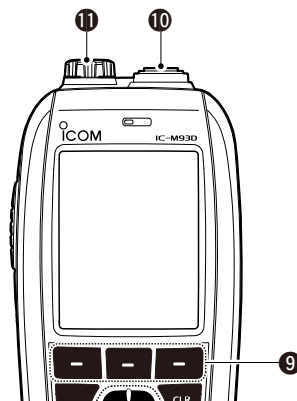
Push to set the entered data, selected item, and so on.

### ❽ CLEAR/LOCK KEY [CLR/🔒]

- Push to cancel the entered data, or to return to the previous screen.
- Hold down for 1 second to turn the Key Lock function ON or OFF. (p. 14)

### 3 PANEL DESCRIPTION

#### ■ Panel description (Continued)



#### 9 SOFTWARE KEYS

Slide through the key functions by pushing [◀] or [▶], and then push either of the 3 software keys to select the function displayed at the bottom of the display. See “Software keys” on page 7 for details.

#### 10 ANTENNA CONNECTOR (p. 2)

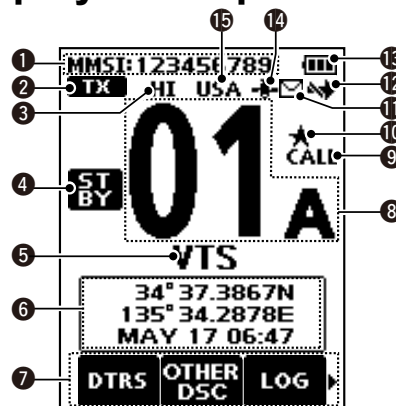
Connects the supplied antenna.

#### 11 SPEAKER MICROPHONE JACK (p. 69)

Connects the optional external speaker microphone.

**NOTE:** Attach the jack cover when the optional speaker microphone is not used. Otherwise, water will get into the transceiver.

#### ■ Display description



#### 1 MMSI CODE DISPLAY (p. 9)

Displays the entered MMSI code.

#### 2 STATUS ICON (p. 14)

- “TX” is displayed while transmitting.
- “MONI” is displayed while the Monitor function is activated.
- “BUSY” is displayed while receiving, or when the squelch is open.

#### 3 POWER INDICATOR (p. 8)

- “HI” is displayed when high power is selected.
- “LOW” is displayed when low power is selected.

**Count on us!**