# O ICOM

**VHF MARINE TRANSCEIVER** 

# IC-M603



Waterproof 1m depth for 30 minutes





H/L

DIA

ICOM



1 OZ ZABC BOEF

ENT

F

5 JKL

4 GHI SCN

HAIL

16

TAG

# High performance, full function with one or two optional CON



#### **Superior receiver performance**

The IC-M603 has excellent receive specifications\* which allow a weak signal a better chance of being heard when louder signals are around it. The powerful audio output from the front facing large speaker further increases the audibility and quality of received calls.

\* More than 75dB for intermodulation rejection, spurious response and adjacent channel selectivity and –5dBµ emf (typical) high sensitivity.

#### Large LCD with dot-matrix characters

The large full dot-matrix display is designed for optimum readability in any lighting condition. With the extra large font, the channel number is maximized on the display and upper and lower case characters can be easily read.



▲ A GPS information example on 37×73mm size display

#### 30 Watt 2-way hailer capability

When connected to an external hailer horn, communication with other boats, deck or dock hands is easy. The built-in 30W amplifier increases your talk power making your message loud and clear. Four fog horn patterns are available for the automatic fog horn, adding further to the safety of the ship.

### Submersible construction (1m depth for 30 minutes)

The IC-M603, including the supplied microphone, withstands submersion in up to 1m depth of water for 30 minutes. It is equivalent to IPX7 waterproofing.\*

(\* except cables)

### Waterproof 1m depth for 30 minutes



#### **Built-in ITU Class-D DSC**

No matter what channel you're tuned to, a separate and independent receiver in-

DSC Built-in Class D

side the IC-M603 continuously monitors Ch. 70. The 10-keypad allows simple and efficient operation of the DSC emergency functions, vital for your safety at sea.

#### Position request and position report

Over and above the DSC, your own and other ships' position data can be exchanged with the position request or position report functions. The received position information can be transferred to external GPS or navigation equipment\*. In addition, the polling (request/ reply) function checks whether a specific ship is within the communications range.

\* NMEA 0183 format is required.

#### **Improved GPS information indication**

When connecting to an external GPS receiver, the GPS information indication function shows course and speed data as well as position, date and time on the display.

# ion VHF marine ANDMICIIIs<sup>TM</sup>

# VHF MARINE TRANSCEIVER

### Front and rear panel microphone connection

The speaker microphone can be detached from the front panel and can be connected to the rear panel without any modification. An optional 6.1m (20ft) microphone extension cable, OPC-1000, is available.



Transparent installation image

#### **RX** speaker function

The RX speaker function, "receiver-repeater" allows you to monitor the received radio audio from a hailer horn on the deck or tower. You can also make an announcement on-board from the microphone.



#### **Favorite channel function**

This function allows quicker channel selection. Set the "TAG" channel to the channels used most often. When pushing the up/down buttons on the speaker microphone, only tagged channels are selected and untagged channels are skipped. In addition, the "TAG" scanning function detects only tagged channels.

#### **Other features**

- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- 7 levels adjustable backlit display and keypad
- Optional voice scrambler, UT-112 for private communication
- 70 programmable channels Low voltage indicator
- AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill

Optional fully integrated Commandmia

COMMANDMICIII

### Up to two COMMANDMICIIIs™ can be connected

The optional COMMANDMICIII<sup>TM</sup> provides a 2nd and/or 3rd station capability to operate the IC-M603 from up to 18.3m\* (60ft) away such as the cabin and/or fly bridge.

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\* Requires use of two optional OPC-1541 extension cables.

#### Full control and intercom capability

All functions of the IC-M603, including distress call, DSC, and hailer, are available. The intercom function allows you to talk with the IC-M603 or another COMMANDMICIII™. Remote power on/off function remotely turns on/off the IC-M603.

#### **Multi-function rotary dial**

A newly designed multi-function rotary dial gives you quick and easy access to many IC-M603 settings, including operating channel, volume, squelch, menu settings and more.

#### **Other features**

- Full dot-matrix LCD with 7-step dimmer setting
- 2.0W (typical) external speaker terminal
- IPX8 grade waterproofing (1.5m depth for 30 minutes)
- Extra large 45mm (d) speaker for superior audio



#### **SPECIFICATIONS**

GENERAL			
• Mode :	156.000–161.450MHz 156.000–163.425MHz 156.525MHz FM (16K0G3E), DSC (16K0G2B) INT and USA* channels (* UK version only.)	<ul> <li>Output power</li> <li>Max. Freq. de</li> <li>Frequency err</li> <li>Spurious emis</li> <li>Adjacent Ch. p</li> <li>Residual modu</li> </ul>	
Power supply requirement:		<ul> <li>Intermediate f</li> </ul>	
	5.5A (25W output) 1.5A (Max. audio)	Squelch sensitivity	
(W×H×D; projections are • Weight (approx.) : • NMEA formats :	50Ω (SO-239) 220×110×109.4 mm not included) 1.40kg GGA, GNS, GLL, VTG	<ul> <li>Adjacent chan selectivity</li> <li>Spurious respi</li> <li>Intermodulatio</li> <li>Hum and noise</li> <li>Audio output p</li> </ul>	
Measurements made in accordance with EN 301 025. All stated specifications are subject			

: 25W/1W (at 13.8V DC) Freq. deviation : ±5.0kHz : ±0.3kHz uency error ious emissions : Less than 0.25µW

TRANSMITTER

- cent Ch. power : More than 70dB
- dual modulation : More than 40dB

#### RECEIVER

Intermediate frequer     Normal     Ch. 70	ncy (1st/2nd) : 30.15MHz/450kHz 21.7MHz/450kHz	
<ul> <li>Sensitivity (at 20dB SINAD)</li> </ul>	: –5dBµ emf (typ.)	
Squelch sensitivity	: –5dBµ emf (typ.)	
<ul> <li>Adjacent channel selectivity</li> </ul>	: More than 75dB	
<ul> <li>Spurious response</li> </ul>	: More than 75dB	
<ul> <li>Intermodulation</li> </ul>	: More than 75dB	
<ul> <li>Hum and noise</li> </ul>	: More than 45dB	
<ul> <li>Audio output power</li> </ul>	: More than 2W	
(at 10% distortion with a $4\Omega$ load)		
and the set of a second state of the set of a	and a state of the	

asurements made in accordance with EN 301 025. All stated specifications are subject to change without notice or obligation

• MB-75

FLUSH MOUNT KIT For flush-mounting the IC-

as a control panel.

## **OPTIONS** Some options may not be available in some countries. Please ask your dealer for details. HM-162E COMMANDMICIII Supplied accessories.

• HM-162E REMOTE-CONTROL MICROPHONE Size (W×H×D): 65.5×150×38 mm

- Weight (approx ;except cables): 385g Supplied accessories :
- 6.1m of cable, OPC-1540, with external speaker terminal Microphone hanger
- · Mounting base for cable connector

DO NOT connect the HM-134B to the IC-M603 as this may damage the transceiver. HM-134B COMMANDMIC™ is NOT compatible with the IC-M603.

COMMANDMIC is a registered trademark of Icom Inc. (Japan) in the USA.



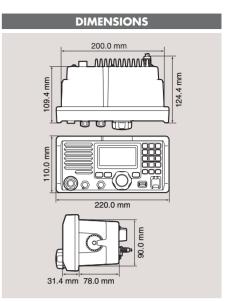
900M

• UT-112 VOICE SCRAMBLER UNIT Enables private communication by scrambling your voice signal. Up to 32 scrambling codes are available

• OPC-1541 EXTENSION CABLE FOR HM-162E 6.1m of extension cable for additional separation length when using the COMMANDMICIII™. Up to 2 OPC-1541 can be connected.

• HM-126RB SPEAKER MICROPHONE Same as supplied.

• OPC-1000 MICROPHONE EXTENSION CABLE 6.1m extension cable with mounting base for use with rear panel microphone connection.



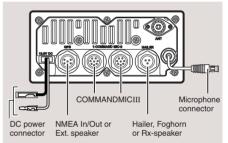
IC-M603

#### **Supplied accessories:**

 Hand microphone • DC power cable

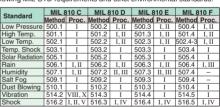
Mounting bracket kit

#### **REAR PANEL VIEW**



#### Applicable U.S. Military Specifications

The IC-M603 and HM-162E have been tested to and passed the following MIL-STD requirements and strict environmental standards.



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