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# **VHF & AIS**

## **VHF** Marine

A VHF marine transceiver is a two-way radio communication system designed for use between ships, boats, and shore radio stations. It enables direct communication with other vessels and stations for port communications, as well as making distress calls in case of emergency.

## **AIS Receiver**

AIS (Automatic Identification System) is a system designed to help avoid collisions between vessels and serve as a navigation aid. The AIS receiver function on VHF marine radios can receive real-time vessel information about the position, heading, and other data of nearby AIS-equipped vessels, displaying it on the screen.



Handheld VHF marine transceivers come equipped with effective features, making them the perfect choice for small to mid-size boats and other water activities. They also serve as an excellent backup for fixed-mount transceivers.

## Key Features Highlight



## Float'n Flash™

The radio will float, flash, and sound an alarm when dropped in water.



## Instant Channel 16 button

Quick access to Channel 16, the international distress and safety channel that boats must monitor when you are not operating on another channel.



## Distress button & DSC

In case of an emergency, pressing the Distress button will transmit a distress signal and the vessel's position information to other radios in the area.



## AquaQuake™

When the water enters the speaker grill, a low-vibration sound is emitted to remove the water from the speaker.



## Optional speaker-microphone

Optional speaker-microphone provides commercial grade convenience while mounting the radio on the waist.



## MOB (Man Overboard) function

Records the location of a person who has fallen overboard. Pressing the distress button while Float'n Flash $^{\text{TM}}$  is working will transmit the MOB distress signal.



Functions	IC-M94DE	IC-M73EURO PLUS / IC-M73EURO	IC-M37E	IC-M25EUR0 EV0
Float'n Flash™	•		•	•
AquaQuake™	•	•	•	•
Distress button & DSC	• (Class H)			
MOB (Man Overboard)	•			
Instant Channel 16 button	•	•	•	•
Optional speaker-microphone	•	•	•	•
AIS receiver Receives and displays real-time AIS information from other vessels	•			
Simplified Navigation Guides you to a specified waypoint or an AIS target	•			
Integrated GPS (GNSS) receiver Determines your vessel's course, speed, and position	•			
CPA/TCPA alarm  Notifies when the AIS target has entered a set CPA [Closest Point of Approach] or TCPA [Time to CPA]	•			
ATIS channels	<b>●</b> *1	<b>●</b> *1	<b>●</b> *1	●*1
LCD/key backlight	•	•	•	•
Dualwatch and Tri-watch Checks channel 16 periodically while operating on another channel	•	•	•	•
Active Noise Cancelling Reduces background noise by up to 90% for both RX and TX	•	(IC-M73EURO PLUS)		
Specifications				

Dimensions*2 (W×H×D: mm)		60.9 × 145.8 × 43.8	52.5 × 125 × 30	59.7 × 140.5 × 38.7	_
Weight*3		357 g	320 g	293 g	_
Audio output power	Internal speaker	1500 mW typical	700 mW typical	700 mW typical	700 mW typical
(10% distortion)	External speaker	350 mW typical 200 mW 200 mW		200 mW	200 mW
RF Output power		6 W or 1 W	6 W, 3 W or 1 W 1 W or 0.5 W*5	6 W or 1 W	5 W, 2.5 W or 1 W 1 W or 0.5 W*5
Operating time*4		10 hours	17 hours / 20 hours	12 hours	11 hours
Submersible protection		IPX7	IPX8	IP57	IPX7

Measurements made in accordance with EN 302-885 for IC-M94DE. EN 301-178 for IC-M73EURO, IC-M37E and IC-M25EURO EVO.

\*1 Depending on the transceiver version. \*2 Projections not included. \*3 Approximate. Includes the supplied battery pack, antenna, and belt clip. \*4 Approximate. Typical operation, Tx: Rx: Stand-by=5:5:90 with supplied batteries. \*5 For only FRG version.



VHF Marine Transceiver with DSC & AIS Receiver

## IC-M94DE

## AIS Traffic Information, Now in Your Hand

- Built-in AIS receiver
- Class H DSC and Distress button
- Simplified Navigation function and MOB
- Float'n Flash™
- 6 W RF output power
- 10 hours of long operating time
- 1500 mW powerful audio output





## IC-M73EURO PLUS IC-M73EURO

## Slim, Stylish, Powerful VHF with Professional Features

- IPX8 advanced waterproofing
- 6 W RF output power
- 17 hours of operating time
- 700 mW audio output
- Active Noise Cancelling technology\*
- Bass Boost function\* provides a rich bass sound
- Last call voice recording\*
- \*Available in IC-M73EURO PLUS version only.





VHF Marine Transceiver

## IC-M37E

## Buoyant 6 Watt VHF with up to 12 Hours of Operation

- Float'n Flash™
- Large keys and easy-to-grip design
- 6 W RF output power
- More than 12 hours of long operating time
- 700 mW audio output
- Channel history function stores the last five channels





VHF Marine Transceiver

## IC-M25EURO EVO

## Buoyant VHF with Eco Mode and 14 Hours of Operation

- USB Type-C™ charging port
- Float'n Flash™
- Large keys and easy-to-grip design
- 5 W RF output power
- 14 Hours Operation in power saving Eco mode
- 700 mW audio output











Fixed VHF Marine radios offer a range of features suitable for all sizes of boats, from small to large. We also provide radios that can be operated remotely from within the vessel using CommandMic™, Command Head™ or smartphone apps, as well as black box radios that can be mounted in the console panel for vessels with limited helm space.

## Key Features Highlight



## NMEA connectivity

NMEA 2000™ and NMEA 0183-HS provide data integration with other marine equipment such as an MFD (Multi-Function Display). The radio can transmit GPS (GNSS) position, DSC call, and radio channel.



## Simplified Navigation function

Guide you to a specified waypoint or an AIS target. You can assign up to 100 destinations as waypoints.



## Distress button & DSC

In case of an emergency, pressing the Distress button will transmit a distress signal and the vessel's position information to other radios in the area.



## MOB (Man Overboard) function

Records a GPS position as a MOB waypoint when a person has fallen overboard and needs to be rescued.



## Instant Channel 16 button

Quick access to Channel 16, the international distress and safety channel that boats must monitor when you are not operating on another channel.



## CommandMic™ station

The radio can be remotely controlled with the optional CommandMic™. Scalability of up to 60.3 ft (18.3 m) maximizes the flexibility to operate anywhere on your boat.



Functions		IC-M605EURO	IC-M510E EVO	IC-M423GE	IC-M330GE	IC-M510BB	IC-M410BB
NMEA interface	NMEA 2000™	•	•			•	•
	NMEA 0183™	● (HS)	● (HS)	•	•	• (HS)	• (HS)
Simplified navigation			•				
Distress button & DSC		• (Class D)	• (Class D)	• (Class D)	• (Class D)	• (Class D)	• (Class D)
MOB (Man Overboard)			•			•	
Instant Channel 16 button		•	•	•	•	•	•
CommandMic™ station		• (3 stations)	•	•		• (3 stations)	• (2 stations)
AquaQuake <sup>TM</sup> When water enters into the speaker an emitted buzzing sound sheds wa		•	•	•	•	•	•
AIS receiver Receives and displays real-time AIS information from other vessels		●*1	•*1			•	
Integrated GPS (GNSS) receiv Determines your vessel's course, s		•	•	•	•	●*2	<b>●</b> *2
CPA/TCPA alarm  Notifies when the AIS target has entered a set CPA (Closest Point of Approach) or TCPA (Time to CPA)		•	•			•	
ATIS channels		•	•	•	•	•	•
LCD/key backlight		•	•	•	•	•	•
Dualwatch and Tri-watch Checks channel 16 periodically while operating on another channel		•	•	•	•	•	•
Active Noise Cancelling Reduces background noise by up to 90% for both RX and TX		•	•	•		•	•
RX Hailer and Foghorn Talk & listen (2-Way) or listen (1-Wa SP-37 speaker horn. Foghorn functi		● (2-Way)	● (2-Way)	● (1-Way)		● (1-Way)	● (1-Way)

## Specifications

Power supply requirement*3		13.8 V DC	13.8 V DC	13.8 V DC	13.8 V DC	12.0 V DC	12.0 V DC
Dimensions*4 (W×H×D: mm)		274 × 114 × 121.5	175 × 110 × 53	180 × 82 × 119.9	156.5 × 66.5 x 88.2	216 × 79 × 113	216 × 79 × 113
Weight (approximate)		1.51 kg	750 g	1.2 kg	730 g	RF Unit: 890 g HM-195: 400 g	RF Unit: 870 g HM-195: 400 g
Audio output power (10% distortion, 4 Ω load)	Internal speaker	_	_	_	2 W	2W (HM-195)	2W (HM-195)
	External speaker	15 W	15 W	10 W typical	4.5 W	13 W	13 W
RF Output power		25 W or 1 W	25 W or 1 W	25 W or 1 W	25 W or 1 W	25 W or 1 W	25 W or 1 W
Submersible protection		IPX8	IP68	IPX7	IPX7	IPX7	IPX7

Measurements made in accordance with EN 301 025 for IC-M605EURO, IC-M510E, IC-M510E EVO, IC-M4236E, IC-M510BB, IC-M410BB and IC-M3306E. EN301 925 for GM600. \*1 Only for the AIS version. \*2 External GNSS antenna comes with the EUR versions. \*3 10.8 ~ 15.6 V DC. \*4 Projections not included.

# VHF Marine Transceiver IC-M605EURO





# Premium Class D DSC VHF Radio with System Flexibility

- $\bullet$  Remote control with up to three Command Head  $^{TM}\!/\!$  Command Mic  $^{TM}\!$
- Integrated AIS receiver. AIS RX data can be output through NMEA 0183-HS
- Wide viewing angle 4.3 inch colour TFT LCD
- Class leading receiver performance (Selectivity and IMD: 80 dB typ.)
- 15 W loud audio and 30 W two-way Hailer
- Two minutes last call voice recording



VHF Marine Transceiver

IC-M510E EVO







## Integrated Class-D DSC VHF Marine Radio with Smartphone App Control

- Remote control & intercom through up to 3 smart devices
- Stylish, sleek design that won iF DESIGN AWARD 2022
- Integrated AIS receiver and AIS plotter\*1
- Built-in NMEA 2000™ connectivity
- Wide viewing angle colour TFT LCD
- Class leading 15 W audio output
- 25 W two-way Hailer/20 W RX Hailer



RS-M500

\*1 AIS receiver is not included depending on the transceiver version.



# VHF Marine Transceiver IC-M423GE



## Easy to Hear! Class D DSC Transceiver

- Built-in Class D DSC
- Built-in GPS (GNSS) receiver (GNSS antenna supplied)
- 10 W audio output
- Internal 10 W Hailer and Foghorn
- Active Noise Cancelling technology
- RX speaker function
- Optional HM-195GB/GW CommandMic™



# VHF Marine Transceiver IC-M330GE



## High Performance and Compact Body

- Ultra compact body (W156.5 × H66.5 × D88.2 mm)
- Built-in Class D DSC
- Easy-to-read full dot-matrix display
- Built-in GPS (GNSS) receiver\* (GNSS antenna supplied)
- Uncompromised receiver performance
- Dynamic clear audio from bass to treble
- $\ensuremath{^{*}}$  IC-M330E (without GNSS receiver) also available depending on the country.



White version is available depending on country.

# VHF Marine Transceiver IC-M510BB



## Up to Three CommandMic™ Capable, Black Box Transceiver

- Full remote control and intercom (up to three CommandMic™)
- $\bullet$  Distress button on the back of the CommandMic  $^{\text{TM}}$
- Integrated AIS receiver
- NMEA 2000™ and NMEA 0183-HS connectivity
- Built-in GPS (GNSS) receiver (GNSS antenna supplied)
- Internal 13 W Hailer and Foghorn
- Active Noise Cancelling technology
- DSC remote interface to control from other device or PC (EN 300 338-8 compatible)



The IC-M510BB comes supplied with one CommandMic™, HM-195GB.

# VHF Marine Transceiver IC-M410BB



## Class D DSC Black Box Transceiver Up to Two CommandMic™ Capable

- Full remote control and intercom (up to two CommandMic™)
- ullet Distress button on the back of the CommandMic  $^{\text{TM}}$
- NMEA 2000™ and NMEA 0183-HS
- Built-in GPS (GNSS) receiver (GNSS antenna supplied)
- Internal 13 W Hailer and Foghorn
- Active Noise Cancelling technology



The IC-M410BB comes supplied with one CommandMic™, HM-195GB.





 $Command Mic^{\text{TM}}$ 

# HM-195GB/GW (White Backlight LCD) HM-195B/SW (Amber Backlight LCD)

## Full Remote-Control Capability

- Intercom function with compatible Icom marine transceivers
- DSC Distress button on back of unit
- Up to 18.3 m (60.3 ft) remote location installation\*
- IPX7 waterproof protection
- \* Two optional OPC-1541 extension cables required.



Photo shows HM-195B and HM-195SW.



## Class B AIS Transponder **MA-510TR**



## Risk Management and Navigation in One Package

- Wide viewing angle 4.3-inch colour TFT LCD
- NMEA 2000™ and NMEA 0183-HS connectivity
- Simplified Navigation function and MOB
- Silent mode switches OFF the AIS transmitter for privacy
- Multi-language interface (English, French, Indonesian, Spanish and Vietnamese)
- Collision Alarm function
- Anchor Watch function
- USB connectivity to output the received AIS messages or GPS data to a PC\*1
- ullet You can pick up AIS targets on the display and send Individual DSC Calls $^{*2}$



- \*1 A third party application and a connection cable are required.
  \*2 A compatible Icom VHF radio (IC-M605EURO, IC-M510E, IC-M510E EVO, IC-M423GE, IC-M510BB, IC-M410BB or IC-M330GE) is required





## Long Range Class E DSC MF/HF SSB Radio

- ITU Class E DSC and Distress button
- Dedicated DSC watch-keeping receiver
- Wide viewing angle 4.3 inch colour TFT LCD
- Intuitive user interface
- NMEA 2000™ and NMEA 0183-HS connectivity
- Integrated GPS (GNSS) receiver, and supplied GNSS antenna with 5 m cable
- Two minutes last call voice recording
- Matching design with the IC-M605EURO VHF Marine transceiver



Product photo includes optional AT-141 Antenna Tuner.

# **5010** Use Commercial



## GMDSS Transceivers for SOLAS Ships

The Global Maritime Distress and Safety System (GMDSS) is the International radio safety standard for ships mandated by the International Maritime Organization (IMO). Merchant ships (SOLAS vessels) are obliged to carry GMDSS communication equipment.

## **Benefits**

GMDSS ensures the safety of life at sea, including automated distress alerting, distress communication service with location information, and improved communication between ships and shore stations.



GMDSS VHF Transceiver with Class A DSC GM600





## GMDSS VHF Marine Transceiver

- Meets the GMDSS VHF radio requirements for SOLAS ships
- ITU Class A DSC
- Dedicated DSC watch receiver
- Wide viewing angle 4.3-inch colour TFT LCD
- Intuitive user interface
- 10 W audio output power with external speaker
- Certified for European Marine Equipment Directive (MED)



PS-310 (#11 or #12) MUST BE USED with GM600 for MED certification compliance

## Optional Accessories for GM600

## MUST USE for MED

DC-DC CONVERTER

PS-310 (#11) 24 V input PS-310 (#12) 12 V input Provides stable 12.6 V DC output



## MED CERTIFIED OPTIONS

HANDSET

HS-98 (#16)



HAND MICROPHONE IPX7

HM-214V (#12) #17 is supplied.



## MF/HF Marine Transceiver **GM800**





## GMDSS MF/HF Transceiver for Long-Distance Communication

- Meets the GMDSS MF/HF radio requirements for SOLAS ships
- ITU Class A DSC
- Dedicated DSC watch receiver
- Wide viewing angle 4.3-inch colour TFT LCD
- Intuitive user interface
- Certified for European Marine Equipment Directive (MED)



## Please note:

HS-98 (#15 is supplied, #17 is an option) and AT-141 (#65) MUST BE USED with GM800 for MED certification compliance

## Optional Accessories for GM800

## MUST USE for MED

AUTOMATIC **ANTENNA TUNER** IPX6



AT-141 (#65)

45 frequency memories for shorter tuning time

## MED CERTIFIED OPTIONS

HANDSET



HAND MICROPHONE

IPX7

HM-214H (#13)



EXTERNAL SPEAKER



Input impedance: 4 Q. Maximum input power: 7 W

## SHIELDED CONTROL CABLE

OPC-1465 (#01)

10 m cable. Use with AT-141.



## MOUNTING BRACKET

MB-108 (#01)

(Photo shows installation example.)





Survival Craft 2-Way Radio

## IC-GM1600E

## GMDSS Portable for Survival Craft

- Meets strict environmental requirements for GMDSS
- 2 W output power for long lasting battery
- Primary (non-rechargeable) lithium battery pack, BP-234
- Highly visible yellow-coloured body
- Instant Channel 16 button
- Auto power save



## Please note:

BP-234 MUST BE USED with IC-GM1600E to comply with the GMDSS requirements.

## Optional Accessories for IC-GM1600E

## MUST USE for MED

[ For survival craft ] LITHIUM BATTERY PACK

BP-234 (#01)

9.0 V/3300 mAh primary battery pack for GMDSS survival craft radio.

[ For on-board use ] RECHARGEABLE Li-Ion **BATTERY PACK** 

BP-252 (#01)

7.2 V/1000 mAh (min), 1050 mAh (typ.) Same as supplied with some versions. ame as supplied with son



## REGULAR CHARGER



BC-173 (#01) Regularly charges the battery pack, BP-252 in 10 hours (approx.).







## MR-1010RI





2 ft Radome Scanner

## Marine Radar with 36 NM Range Observation

- Simplified ARPA (Automatic Radar Plotting Aids) function\* to track the target and alert e target enters within the CPA and TCPA limits
- 36 NM range, 4 kW radome scanner
- AIS target plotting and overlay AIS functions\*
- DSC Information function\*
- 10.4-inch colour TFT display
- Intuitive user interface
- Multi-language interface (Arabic, English, French, Italian, Portuguese, Spanish and Turkish)
- True Trail function\*
- TLL (Target Latitude Longitude) function\*



\* External bearing, speed, position, waypoint, variation, AIS and DSC data is (are) required, when you use these functions.

## VHF Marine Hybrid Transceivers





Hybrid IP transceiver (LTE + VHF Marine)

## **IP-M60**

## VHF Marine & LTE Two-In-One Radio

- Nationwide coverage\*1 over LTE networks
- Four Operating Modes
  (Marine/Cellular/Mixed/Relay)
- Simultaneous TalkListen™ in LTE mode
- Emergency call functions with Man Down and Lone Worker functions
- Built-in Bluetooth® capability and VOX function for hands-free operation
- 1500 mW powerful audio output
- IP67 and MIL-STD-810 rugged construction





Dual Mode Transceiver (VHF Marine + PMR)

## IC-M85E

# VHF Marine & Private Mobile Radio

- 100 programmable PMR channels\*2
- Automated Emergency Alarm with Man Down, Lone Worker and MOB Alarm functions
- VOX function for hands-free operation
- 700 mW audio output
- IP67 and MIL-STD-810 rugged construction
- 21 hours of operating time\*3
- Built-in voice scrambler compatible



<sup>\*1</sup> Coverage area depends on the LTE network provider. \*2 Appropriate license is required. \*3 With a supplied battery, BP-294 [TX: RX: Standby=5:5:90.] Please note: Available functions may be subject to local regulations.

# Wi-Fi Transceiver System



## Flexible Communication Solutions

The Wi-Fi transceiver system can be tailored to meet a variety of needs, including license-free Wi-Fi transceivers that support simultaneous full-duplex communication over a Wi-Fi network. In addition, the RoIP (Radio over IP) gateway device seamlessly connects different communication systems.

The system provides crews a seamless and reliable

Wi-Fi Transceiver **IP110H** 



## Compact Wi-Fi Radio

- License-free communication terminal
- WPA2, WPA-Enterprise security
- Built-in Bluetooth® capability
- IP67 and MIL-STD-810
- Compact body and lightweight
- 1000 mW audio output
- Motion/Stationary Detection, Man Down and Lone Worker functions





## **RoIP Gateway** VE-PG4



## Radio over IP network Gateway

- Links land mobile radios, Wi-Fi transceivers. IP phone systems, satellite PTT transceivers, and external devices
- Wi-Fi transceiver controller built-in, capable of controlling up to 50 Wi-Fi transceivers



## Wi-Fi Transceiver App IP100FS





## Remote Communicator (Supplied with a USB flash drive)

- Windows™ PC based communication app
- Obtains location info of each radio based on the access point being
- Management functions such as remote lock function



## Communication Links



**Benefits** 

With a simple push of the PTT button, you can instantly communicate with all radios in the same talkgroup.





Satellite PTT

## IC-SAT100

## One-to-Many Global Communications

- Emergency key on the top panel for calling programmed users
- IP67 and MIL-STD-810 rugged construction
- Operating temperature range is from -30°C to +60°C
- 1500 mW of powerful audio
- 14.5 hours of long operating time\*1
- Built-in Bluetooth® capability\*2
- Integrated GPS (GNSS) receiver
- Location Sharing function to share your location with other Talkgroup participants
- AES 256-bit encryption for security
- Short Data Message function



- \*1 TX : RX : standby = 5 : 5 : 90.
- \*2 Version without Bluetooth® capability also available. Ask your dealer for details.

Please Note: Subscription contracts are required for using the IC-SAT100. Depending on the country or region, carrying and/or use of the IC-SAT100 may be prohibited.

Case Study

## Japan-Palau Goodwill Yacht Race

Satellite PTT transceivers cover 1,726 NM with one-to-many global communication

Scan to see more details



## How the World Communicates

Providing advanced communications, and creating a safe and prosperous society, is what Icom is best at. We are leading people and society into a bright future by connecting the world with the latest in wireless technology. Icom is 'How the World Communicates'.

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