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VHF & AIS

VHF Marine

A VHF marine transceiver is a two-way radio communication system designed to communicate with other vessels and coast stations. Also, making distress calls in case of emergency by simplified operation.

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 receives various real-time vessel information, such as the position and heading of nearby AIS-equipped vessels, and displays them 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.



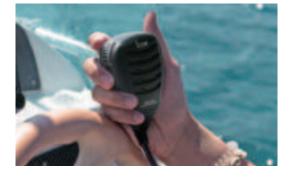
AquaQuake™

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



Instant Channel 16 button

Quick access to Channel 16, the international distress and safety channel that boats must monitor even when you are operating on another channel.



Optional speaker-microphone

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



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 the location of a person who has fallen overboard. Pressing the distress button while Float'n FlashTM is working will transmit the MOB distress signal.



Functions	IC-M94DE	IC-M73EURO PLUS / IC-M73EURO	IC-M37E	IC-M25EUR0 EV0
Float'n Flash™	•	1 1	•	•
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	●*1	●*1	●*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	56.5 × 134 × 31.2
Weight*3		357 g	320 g	293 g	228 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 typical
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
Operating time*4		10 hours	17 hours / 20 hours	12 hours	14 hours (Eco Mode)
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



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







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
- 12 hours of 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 even when you are 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-M605EUR0	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 TM When water enters into the speaker an emitted buzzing sound sheds wa		•	•	•	•	•	•
AIS receiver Receives and displays real-time AIS in	oformation from other vessels	●*¹	●*1			•	
Integrated GPS (GNSS) receive Determines your vessel's course, s		•	•	•	•	●*2	●*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	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

Scan to see more details

*1 Only for the AIS

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: more than 75 dB)
- 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



*1 AIS receiver is not included depending on the transceiver version. Please ask your dealers for details.



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/B CommandMic™



VHF Marine Transceiver IC-M330GE



High Performance and Compact Body

- Ultra compact body (W156.5 \times H66.5 \times 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
- * IC-M330E (without GNSS receiver) also available depending on the 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™)
- \bullet 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.





CommandMic™

HM-195GB (White Backlight LCD)
HM-195B (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.



Class B AIS Transponder MA-510TR



Risk Management and Navigation in One Package

- \bullet Wide viewing angle 4.3-inch colour TFT LCD
- NMEA 2000™ and NMEA 0183-HS connectivity
- Simplified Navigation function
- Silent mode switches OFF the AIS transmitter for privacy
- Multi-language interface (English, French, Indonesian, Spanish and Vietnamese)
- Collision Alarm function
- Anchor Watch function
- ullet USB connectivity to output the received AIS messages or GPS data to a PC^{*1}
- 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 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.

SOICAR Use for Commercial



GMDSS Transceivers

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.



VHF MARINE TRANSCEIVER **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

ΔΙΙΤΟΜΔΤΙΟ **ANTENNA TUNER**



AT-141 (#65)

45 frequency memories for shorter tuning time

MED CERTIFIED OPTIONS



HAND MICROPHONE IPX7

HM-214H (#13)



EXTERNAL SPEAKER

SP-24E (#18) Input impedance: 4 Q.



SHIELDED CONTROL CABLE

OPC-1465 (#01)

10 m cable. Use with AT-141.



HANDSET

#15 is supplied.

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.



REGULAR CHARGER



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







MR-1010RII





2 ft Radome Scanner

Marine Radar with 36 NM Range Observation

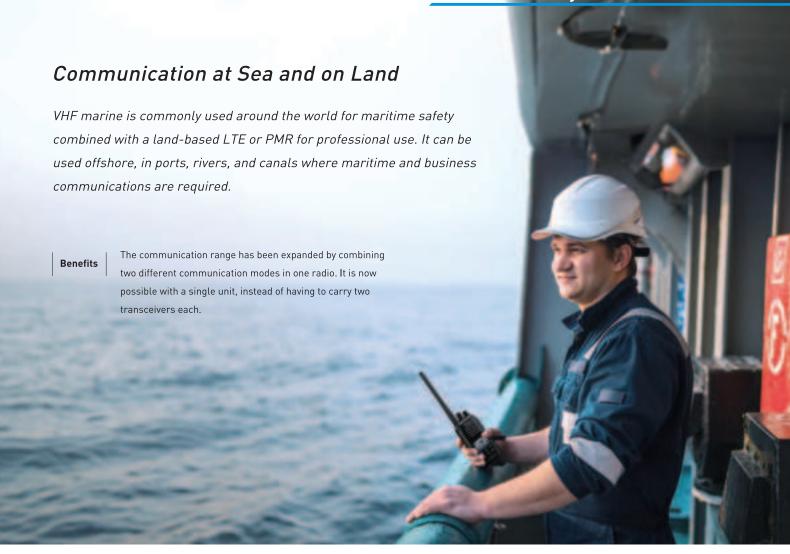
- Simplified ARPA (Automatic Radar Plotting Aids) function* to track the target and alert e target enters within the CPA and TCPA limits
- 36 NM range, 4 kW radome scanner
- AIS target plotting and overlay AIS functions*
- DSC Information function*
- 10.4-inch colour TFT display
- Intuitive user interface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



 $^{^{\}ast}$ External bearing, speed, position, waypoint, variation, AIS and DSC data is [are] required, when you use these functions.

Credits: This product includes "zlib," "libusb," "freetype," "portmap," "ncurses," and "libjpeg" open source software, and is licensed according to the open source software license. This product is based in part on the work of "Eric Young (eay@cryptsoft.com)," and "Independent JPEG Group."

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



^{*1} 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 **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



Realtime Communication Across the Globe

SATELLITE PTT is a transceiver that uses the Iridium® satellite system, offering global coverage, including both poles. The Iridium® satellite network ensures reliable communication in remote or isolated areas, such as at sea, where no cellular or communications infrastructure exists.

Benefits

Satellite PTT radios enable real-time, broadcast communications with low-latency connections and worldwide coverage.

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
- \bullet 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 1726 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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