

MARINE RADIOS

for Leisure



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All Icom transceivers are proudly designed and manufactured in Japan.



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.



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™
- 5 W RF output power
- 10 hours of long operating time
- 1500 mW powerful audio output



VHF Marine Transceivers

IC-M73EURO

*Slim, Stylish, Powerful VHF
with Professional Features*

- IPX8 advanced waterproofing
- 5 W RF output power
- 17 hours of operating time
- 700 mW audio output



VHF Marine Transceiver

IC-M37E

*Buoyant 5 Watt VHF with up
to 12 Hours of Operation*

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



NEW

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





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 speaker.



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.



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 Flash™ is working will transmit the MOB distress signal.

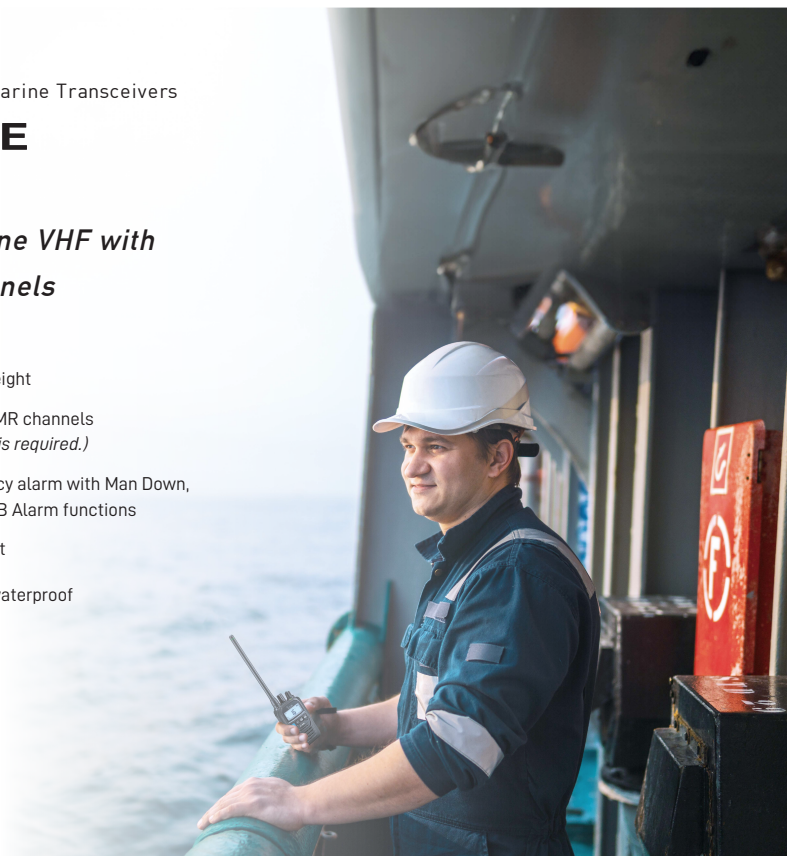
Note: Please refer to the table on the next page to check the availability of features for each model.



VHF Professional Marine Transceivers

IC-M85E**Compact Marine VHF with
100 LMR Channels**

- Compact and lightweight
- 100 programmable LMR channels
(Appropriate licence is required.)
- Automated emergency alarm with Man Down,
Lone Worker and MOB Alarm functions
- 700 mW audio output
- IP67 dust-tight and waterproof



Functions	IC-M94DE	IC-M85E	IC-M73EURO	IC-M37E	IC-M25EURO EVO
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	•*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	•				
Specifications					
Dimensions*2 (W×H×D: mm)	60.9 × 145.8 × 43.8	56 × 92 × 36.2	52.5 × 125 × 30	59.7 × 140.5 × 38.7	56.5 × 134 × 31.2
Weight*3	357 g	281 g	320 g	293 g	228 g
Audio output power (10% distortion)	Internal speaker	1500 mW typical	700 mW typical	700 mW typical	700 mW typical
	External speaker	350 mW typical	700 mW typical	200 mW	200 mW
RF Output power	5 W or 1 W	5 W, 3 W or 1 W	5 W, 3 W or 1 W	5 W or 1 W	5 W, 2.5 W or 1 W
Operating time*4	10 hours	21 hours	17/20 hours	12 hours	14 hours (Eco Mode)
Submersible protection	IPX7	IP67 MIL-STD-810	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

IC-M605EURO



Premium Class D DSC VHF Radio with System Flexibility

- Remote control with up to three Command Head™/CommandMic™
- Integrated AIS receiver. AIS RX data can be output through NMEA 0183-HS (NMEA 2000™ and NMEA 0183-HS connectivity)
- 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



*Only Compatible with CommandMic™ HM-229B/W

VHF Marine Transceiver

IC-M510E EVO

AIS Version



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
- NMEA 2000™ and NMEA 0183-HS connectivity
- Wide viewing angle colour TFT LCD
- Class leading 15 W audio output
- 25 W two-way Hailer/20 W RX Hailer



Remote Control Software
RS-M500

VHF Marine Transceiver

IC-M423GE



Easy to Hear! Class D DSC Transceiver

- Built-in Class D DSC
- Built-in GPS receiver
- 10 W Loud Audio, Public Address and Foghorn
- Active Noise Cancelling technology
- Optional HM-195GB/GW CommandMic™
- NMEA 0183 connectivity



VHF Marine Transceiver

IC-M330GE



Black

White

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
- GPS receiver antenna supplied
- Uncompromised receiver performance
- Dynamic clear audio from bass to treble



* Front Flush Mount Bracket available in Black/White

VHF Marine Transceiver

IC-M200



The Performance, Reliability, Quality and Value You Asked For

- Compact and IPX7 Submersible Body
- Powerful Front Mount Speaker
- Class Leading Receiver Performance
- Dualwatch and Tri-watch Function
- Favorite Channel Function
- Large Easy-to-see LCD
- Class Leading Receiver Performance



* Front Flush Mount Bracket available in Black.

VHF Marine Transceiver

IC-M510BB



Up to Three CommandMic™ Capable, Black Box Transceiver

- Full remote control and intercom (up to three CommandMic™)
- Distress button on the back of the CommandMic™
- Integrated AIS receiver
- NMEA 2000™ and NMEA 0183-HS connectivity
- Built-in GPS (GNSS) receiver (GNSS antenna supplied)
- Internal 13W amplifier for 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™)
- Distress button on the back of the CommandMic™
- NMEA 2000™ and NMEA 0183-HS
- Built-in GPS (GNSS) receiver (GNSS antenna supplied)
- Internal 13 W amplifier for Hailer and Foghorn
- Active Noise Cancelling technology



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



Black

White

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

CommandMic™

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 if required.



Amber Backlight LCD



White Backlight LCD

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.

Note: Please refer to the table on the next page to check the availability of features for each model.



Functions		IC-M605EURO	IC-M510E EVO	IC-M510BB	IC-M410BB	IC-M423GE	IC-M330GE	IC-M200
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™ When water enters into the speaker grill, an emitted buzzing sound sheds water from the speaker.		●	●	●	●	●	●	●
AIS receiver Receives and displays real-time AIS information from other vessels		●*1	●*1	●				
Integrated GPS (GNSS) receiver Determines your vessel's course, speed, and position		●	●	●*2	●*2	●	●	
CPA/TCPA alarm Notifies when the AIS target has entered a set CPA (Closest Point of Approach) or TCPA (Time to CPA)		●	●	●				
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-Way) through the optional SP-37 speaker horn. Foghorn function is also available.		● (2-Way)	● (2-Way)	● (1-Way)	● (1-Way)	● (1-Way)		
Specifications								
Power supply requirement ^{*3}		12.0 V DC	12.0 V DC	12.0 V DC	12.0 V DC	12.0 V DC	12.0 V DC	12.0 V DC
Dimensions ^{*4} (W×H×D: mm)		274 × 114 × 121.5	175 × 110 × 53	216 × 79 × 113	216 × 79 × 113	180 × 82 × 119.9	156.5 × 66.5 × 88.2	216 × 79 × 113
Weight (approximate)		1.51 kg	750 g	RF Unit: 890 g HM-195: 400 g	RF Unit: 870 g HM-195: 400 g	1.2 kg	730 g	RF Unit: 870 g HM-195: 400 g
Audio output power (10% distortion, 4 Ω load)	Internal speaker	—	—	2W (HM-195)	2W (HM-195)	—	2 W	2W (HM-195)
	External speaker	15 W	15 W	13 W	13 W	10 W typical	4.5 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	25 W or 1 W
Submersible protection		IPX8	IP68	IPX7	IPX7	IPX7	IPX7	IPX7

Measurements made in accordance with EN 301 025 for IC-M605EURO, IC-M510E, IC-M510E EVO, IC-M423GE, IC-M510BB, IC-M410BB and IC-M330GE. 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.

Safer Navigation with Real-Time Vessel Information

An AIS transponder is an automatic broadcasting system of real-time vessel information, including identity, position, speed, and course. It helps you to monitor, and be monitored, by AIS-equipped vessels around you.

Benefits

The AIS transponder significantly increases your safety at sea. Other vessels such as large cargo ships identify your vessel position, promoting safer navigation.

This exchange of AIS information enhances safe navigation in low visibility conditions such as fog, rain, or darkness.

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
- Collision Alarm function
- Anchor Watch function
- Supplied GPS Antenna with 10m cable
- 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, IC-M510E EVO, IC-M423GE, IC-M510BB, IC-M410BB or IC-M330GE) is required.

Communication Beyond the Horizon

Marine MF/HF SSB radio is a long-range communication system used on ships for reliable communication over long distances, beyond the reach of VHF radios.

These radios are crucial for maintaining contact with other vessels and shore stations.

Benefits

The key benefits are global communication coverage, enhancing maritime safety and operational efficiency, when out at sea.

They are essential for emergency and routine communications on the open waters.

MF/HF Marine Transceiver

IC-M804



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.

MARINE RADIOS

for Commercial Use





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)



Please note:
PS-310 (#11) 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
Provides stable 12.6 V DC output



MED CERTIFIED OPTIONS

HANDSET

HS-98 (#16)

Comes in handy for listening privacy on board.



HAND MICROPHONE

IPX7

HM-214V

*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****HS-98 (#17)**

*Supplied

**HAND MICROPHONE**

IPX7

HM-214H (#13)**EXTERNAL SPEAKER****SP-24E (#18)**Input impedance: 4 Ω.
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**7.2 V/1000 mAh (min), 1050 mAh (typ.)
Same as supplied with some versions.

*Supplied

**REGULAR CHARGER****BC-173**

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

*Supplied

**BC-147SV**

*Supplied





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.

Benefits

The system provides crews a seamless and reliable communication solution. With features like Simultaneous TalkListen™ and integration with VHF Marine transceivers and public address systems, Icom helps you communicate efficiently.

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



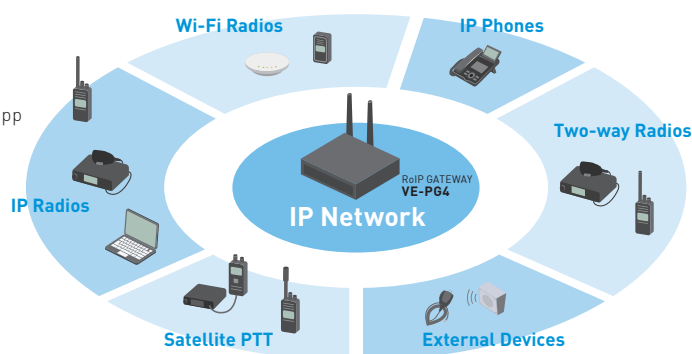
Wi-Fi Transceiver App IP100FS



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, one-to-many 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
- 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

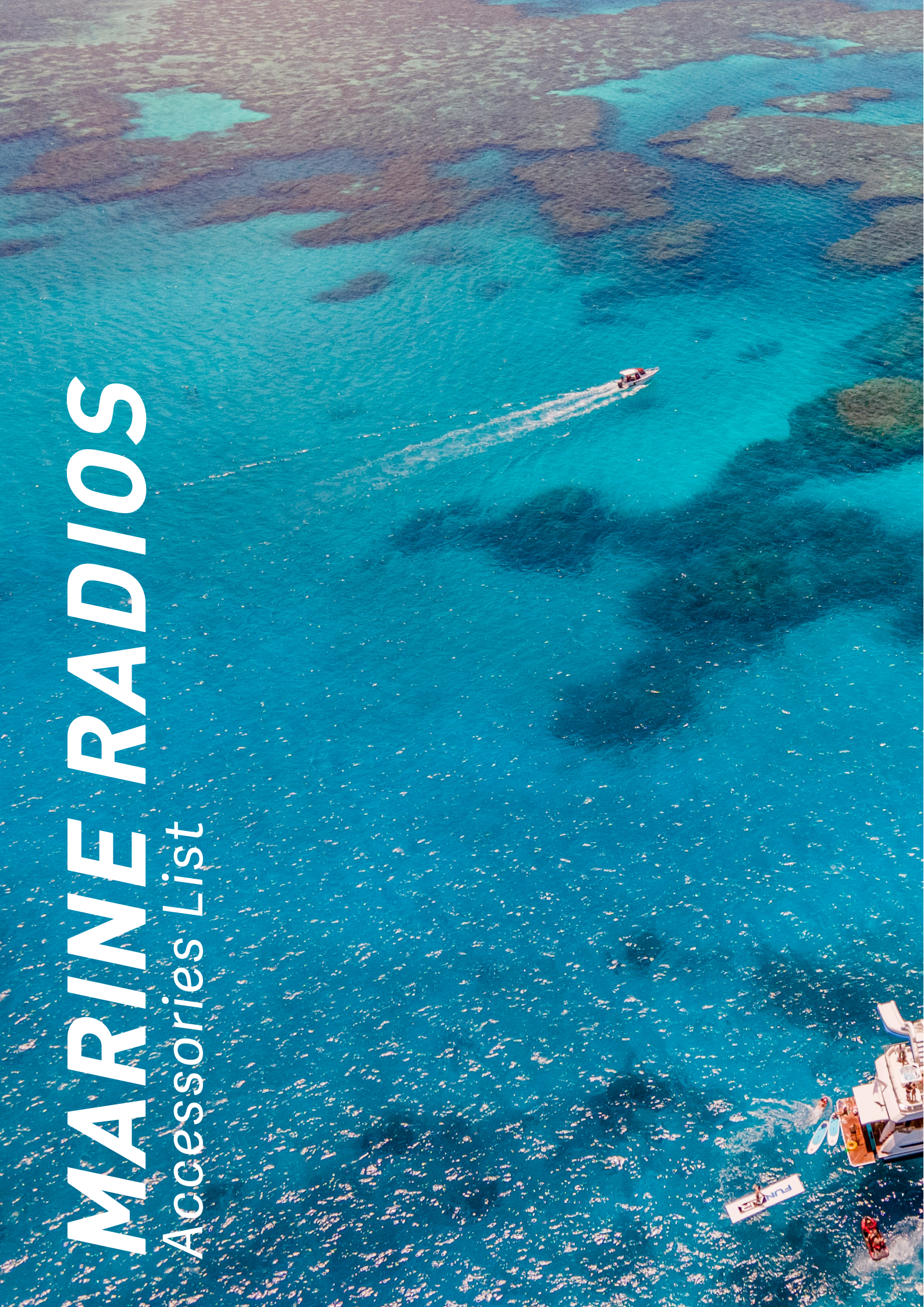
Satellite PTT transceivers cover 1,726 NM with one-to-many global communication

Scan to see more details



MARINE RADIOS

Accessories List





Optional Accessories for Handheld Transceivers

	BATTERY CASES		BATTERY PACKS					
MODEL NAME	BP-291 LR6 (AA)x5 cells	BP-297*1 LR03 (AAA)x3 cells	BP-306 (Li-ion) 7.2 V/2280 mAh (min.) 2400 mAh (typ.)	BP-245H (Li-ion) 7.2 V/2100 mAh (min.) 2250 mAh (typ.)	BP-252 (Li-ion) 7.2 V/1000 mAh (min.) 1050 mAh (typ.)	BP-296 (Li-ion) 3.6 V/2200 mAh (min.) 2350 mAh (typ.)	BP-294 (Li-ion) 7.2 V/3050 mAh (min.) 3150 mAh (typ.)	BP-234 (Lithium) 9.0 V/3300 mAh (non-rechargeable)
								
IC-M94DE			●					
IC-M85E	●						●	
IC-M73EURO				●				
IC-M37E		●				●		
IC-GM1600E					● (On-board use only)			● (For survival craft)

*1 The IC-M37E floats when used with most common brand AAA batteries. Battery weight varies by manufacturer. Please check your IC-M37E for buoyancy in a shallow area when using AAA batteries.

	DESKTOP CHARGERS							
MODEL NAME	BC-251 Rapid charger	BC-210*7 Rapid charger	BC-235 Desktop charger	BC-173 Regular charger	BC-219N*7 Rapid charger	BC-225*7 Intelligent rapid charger	BC-226*4 Connectable type. Connects up to six BC-226 units.	BC-227*7 Rapid charger
								
IC-M94DE	●							
IC-M85E					●	●	●	●
IC-M73EURO		●						
IC-M37E			●					
IC-GM1600E				● (for BP-252)				

*4 An AC adapter should be purchased separately. BC-123S (straight plug version) for single unit or BC-228 for multiple connections.

	MULTI-CHARGERS		AC ADAPTOR			
MODEL NAME	BC-214N*5 *7 Rapid charger	BC-238*6 Rapid charger	BC-123SV 12 V/1 A, L-shape plug	BC-147SE 12 V/330 mA	BC-157S 12 V/7.5 A	BC-228 15 V/4 A
						
IC-M94DE			● (Use with BC-251)			
IC-M85E	● (Use #63, AD-132N installed)		● (Use with BC-219N, BC-225 or BC-227)		● (Use with BC-214N)	● (Use with BC-226)
IC-M73EURO			● (Use with BC-210)			
IC-M37E		● (AD-138 installed)				
IC-GM1600E				● (Use with BC-173, On-board use only)		

*5 AD-132N is supplied with the BC-214N, depending on version. *6 DC power cable is supplied with the BC-238, depending on version. *7 AC adapter supplied depending on version.

	USB CHARGER	CIGARETTE LIGHTER CABLES		DC POWER CABLES	
MODEL NAME	BC-217SV 5 V/1 A	CP-25H	CP-23L	OPC-515L	OPC-656
					
IC-M94DE		● (Use with BC-251)			
IC-M85E			● (Use with BC-219N, BC-225 or BC-227)	● (Use with BC-219N, BC-225 or BC-227)	● (Use with BC-214N)
IC-M73EURO		● (Use with BC-210)		● (Use with BC-210)	
IC-M37E	● (Use with BC-235)				

	HEADSETS			PTT SWITCH CABLE	EARPHONES				
MODEL NAME	HS-94 Earhook type with boom microphone	HS-95 Neck arm type	HS-97 Throat microphone type	VS-5MC Manual PTT/VOX operation	EH-15B	SP-26 2.5 mm plug SP-27 3.5 mm plug Tube earphone	SP-28 2.5 mm plug	SP-29 3.5 mm plug	SP-40 3.5 mm plug
									
IC-M85E	● (Use with VS-5MC)	● (Use with VS-5MC)	● (Use with VS-5MC)	●	● (Use with HM-163MC)	● *8	● (Use with HM-163MC)	● (Use with HM-222 or AD-135)	● (Use with HM-222 or AD-135)

*8 SP-26:for use with HM-163MC. SP-27:for use with HM-222 or AD-135.

Optional Accessories for Handheld Transceivers

	SPEAKER-MICROPHONES							MICROPHONE
MODEL NAME	HM-228	HM-165	HM-202	HM-167	HM-213	HM-222	HM-236	HM-163MC
	Waterproof 	Waterproof 	Waterproof 	Waterproof 	Waterproof 	Waterproof 	Waterproof 	Waterproof 
IC-M94DE	●	●						
IC-M85E						●	●	●
IC-M73EURO			●	●				
IC-M37E					●			
IC-M25EURO EVO					●			

	ACC ADAPTERS		BELT CLIPS		BELT HANGERS			CARRYING CASES		ANTENNAS
MODEL NAME	AD-118 6-Pin Hirose plug adapter 	AD-135 3.5 mmjack earphone adapter 	MB-86 MB-136 Swivel type  Photo shows MB-86	MB-103/103Y MB-133 MBB-3 Alligator type  Photo shows MB-133	MB-96N Swivel type 	MB-96F Fixed type 	MB-96FL Long type 	LC-187 Charging is possible while the case is attached 	LC-188 	FA-S59V FA-S64V FA-SC58V FA-SC59V FA-S61V  FA-S59V (left) & FA-S64V (right)
IC-M94DE				● (Use MB-133)		●	●			● FA-SC59V
IC-M85E	●	●	● (Use MB-136)	● (Use MBB-3)	●	●	●	●	●	● FA-SC58V
IC-M73EURO			● (Use MB-86)	● (Use MB-103)	●	●	●			● FA-S59V or FA-S64V
IC-M37E				● (Use MB-133)						● FA-SC59V
IC-M25EURO EVO				● (Use MB-133)						● FA-SC59V
IC-GM1600E				● (Use MB-103Y)						● FA-S61V

Optional Accessories for Fixed Mount Transceivers and Others

VHF FIXED MOUNT TRANSCEIVERS

	HAND MICROPHONES				COMMAND HEAD™	COMMANDMIC™			HORN SPEAKER	EXTERNAL SPEAKER	HANDSET
MODEL NAME	HM-205B/RB/SW Speaker microphone	HM-235B/W	HM-214V	HM-164B	RC-M600	HM-229B/W	HM-195B/SW With Distress Button	HM-195GB/GW With Distress Button	SP-37	SP-35	HS-98 (#16)
											
IC-M605EURO	● (Use with HM-205RB)				●	●			●		
IC-M510E EVO	● (Use with HM-205RB)							●	●		
IC-M510BB								●	●		
IC-M410BB							●	●	●		
IC-M423GE	● Use with HM-205B/SW						●	●	●		
IC-M330GE		(Same as supplied)							●		
IC-M200				●						●	
GM600			(Same as supplied)								●

	FRONT PANEL COVER	CONNECTION CABLE	EXTENSION CABLES			DC-DC CONVERTER	FLUSH MOUNT KITS	VOICE SCRAMBLER	L-Type Conversion adapter cable	
MODEL NAME	MBZ-1	OPC-2384 12-pin to 8-pin for use with CommandMic™	OPC-2377 10 m cable	OPC-1541 6.1 m cable for use with CommandMic™ and rear microphone connection	OPC-1000 6.1 m cable for use with rear microphone connection.	PS-310 (#01) 24 V input	MB-75 MB-69 MB-132 MBF-5 MBF-7	UT-112/A Total of 32 voice scramble codes available	OPC-2522L Adapter cable for HM205RB	OPC-2523L Adapter cable for HM195 series
						 Photo shows MB-75				
IC-M605EURO		● (Use with HM-229B/W)	● (Use with RC-M600)	● (Use with CommandMic, HM-205RB)	● (For use with HM-205RB)		● (Use with MB-132, MB-75)	●		
IC-M510E EVO	●			● (Use with CommandMic, HM-205RB)	● (For use with HM-205RB)		● (Use with MB-7)	● (Use UT-112A)	●	●
IC-M510BB				● (Use with CommandMic)						
IC-M410BB				● (Use with CommandMic)						
IC-M423GE				● (Use with CommandMic)			● (Use with MB-132)			
IC-M330GE							● (Use with MBF-5)			
IC-M200							● (Use with MB-69)			
GM600						●				

Optional Accessories for Fixed Mount Transceivers and Others

MF/HF FIXED MOUNT TRANSCEIVERS

	HAND MICROPHONE	HANDSET	EXTERNAL SPEAKER	ANTENNA TUNER	SHIELDED CONTROL CABLE	MOUNTING BRACKET	FLUSH MOUNT KIT
MODEL NAME	HM-214H 	HS-98 	SP-24E 	AT-141 	OPC-1465 10 m 	MB-108 	
IC-M804E	● (Use #13)	● (Use #18)	● (Use #02)	● (Use #64)	● (Use with AT-141)	●	●
GM800	● (Use #13)	● (Use #17)	● (Use #18)	● (Use #45)	● (Use with AT-141)	●	●

VHF FIXED MOUNT TRANSCEIVERS

	GNSS ANTENNA	SOFTWARE
MODEL NAME	UX-241 5 m cable 	RS-M500*1 For Android™/ iOS™ device 
IC-M605EURO	● (Same as supplied)	
IC-M510E	●	●
IC-M510BB	●*2	
IC-M410BB	●*2	

AIS TRANSPONDER

	FLUSH MOUNT KITS	
MODEL NAME	MB-75 	MB-132 
MA-510TR	●	●

VHF FIXED MOUNT TRANSCEIVERS

	Front Flush mount bracket		
MODEL NAME	MFM200B 	MFM330B 	MFM330W 
IC-M330GE-B		●	
IC-M330GE-W			●
IC-M200	●		

*1 Free download app for Android™/iOS™. Download on Google Play™/App Store.
*2 External GNSS antenna is included with the IC-M510BB and M410BB EUR versions.

Specifications for Fixed Mount Transceivers

VHF FIXED MOUNT TRANSCEIVERS

		IC-M605EURO	IC-M510E	IC-M510BB	IC-M410BB	IC-M423GE	IC-M330GE	IC-M200	GM600
Frequency range (Unit: MHz)	Transmit	156.025–161.425	156.025–161.425	156.025–161.425	156.025–161.425	156.000–161.450	156.000–162.000	156.025–162.000	156.025–161.600
	Receive	156.300–162.000	156.300–161.925	156.050–162.000	156.050–162.000	156.000–163.425	156.000–163.425	156.025–162.025	156.025–162.000
	DSC (CH 70)	156.525	156.525	156.525	156.525	156.525	156.525	–	156.525
	AIS	161.975, 162.025	161.975, 162.025*1	161.975, 162.025	–	–	–	–	–
Power supply requirement		12.0 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	12.0 V DC (11.7–15.9 V DC)	24 V DC (21.6–31.2 V DC)*2
Dimensions (W × H × D; projections not included)		274 × 114 × 121.5 mm	175.0 × 110.0 × 53.6 mm	M510BB 216 × 79 × 113 mm HM-195 67.5 × 144.5 × 37 mm	M410BB 216 × 79 × 113 mm HM-195 67.5 × 144.5 × 37 mm	180 × 82 × 119.9 mm	156.5 × 66.5 × 88.2 mm	153×67×133 mm	274 × 114 × 121.5 mm
Weight (approximate)		1.5 kg	750 g (Not included microphone)	IC-M510BB 890 g HM-195 400 g	IC-M410BB 870 g HM-195 400 g	1.2 kg	730 g	790 g	1.6 kg
Current drain	Transmit (High)	6.0 A max.	5.0 A max.	5.5 A	5.5 A	5.5 A	5 A	5.5 A	3.3 A*2
	Max. audio	8.0 A max. (Ext. SP, RX hailer ON, HM-229 × 3)	3.3 A max.	4.5 A (HM-195 × 3, RX hailer) 1.5 A (HM-195 × 1)	4.0 A (HM-195 × 2, RX hailer) 1.5 A (HM-195 × 1)	5 A typ. (Ext. SP, RX SP ON) 1.5 A (Internal SP)	1 A	1.5 A	2.0 A*2
Sensitivity	Voice (20 dB SINAD)	–5 dBμ emf typical	–5 dBμ emf typical	Less than –2 dBμ emf	Less than –2 dBμ emf	–5 dBμ emf typical	–5 dBμ emf typical	–14 dBμ typ. (at 12 dB SINAD)	–7 dBμ emf typical
	DSC (1% BER)	–3 dBμ emf typical	–1 dBμ emf typical	–7 dBμ emf typical	–7 dBμ emf typical	–4 dBμ emf typical	–5 dBμ emf typical		–7 dBμ emf typical
	AIS (20% PER)		Less than –107dBm	–115 dBm typical					
Inter-modulation	Voice	75 dB	75 dB	68 dB	68 dB	68 dB	68 dB	75 dB	75 dB
	DSC (1% BER)	73 dBμ emf	68 dBμ emf	68 dBμ emf	68 dBμ emf	68 dBμ emf	68 dBμ emf		73 dBμ emf
Audio output power (10% dist./4 Ω load)		15 W (Ext. speaker)	15 W typ. (Ext. speaker)	2 W (HM-195) 13 W (RX hailer)	2 W (HM-195) 13 W (RX hailer)	10 W (Ext. speaker)	2 W	4.5 W (typical)	10 W (Ext. speaker) 2 W (Int. speaker)
RF output power		25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W
NMEA interface		NMEA 2000™, NMEA 0183-HS × 2	NMEA 2000™*3, NMEA 0183-HS	NMEA 2000™, NMEA 0183-HS	NMEA 2000™, NMEA 0183-HS	NMEA 0183	NMEA 0183	–	IEC 61162-1
AIS Receiver		Built-in	Built-in*1	Built-in	–	–	–	–	–

Measurements made in accordance with EN 301 025 V2.2.1 or V2.3.1 for IC-M605EURO, IC-M510E, IC-M423GE, IC-M510BB, IC-M410BB, IC-M200 and IC-M330GE. EN301 925 for GM600.

*1 Only for the AIS version. *2 With PS-310 (#11). *3 With PS-310 (#12). *4 CT-M500 required

Specifications for Handheld Transceivers

HANDHELD TRANSCEIVERS

		IC-M94DE	IC-M85E	IC-M73EURO	IC-M37E	IC-M25EURO EVO
Frequency range (Unit: MHz)		TX: 156.000–161.450 RX: 156.000–163.425 CH70: 156.525 AIS: 162.025	TX: 156.000–161.450 RX:156.000–163.425 PMR TX/RX: 136–174	TX: 156.000–161.450 RX:156.000–163.425	TX: 156.000–161.450 RX: 156.000–163.425	TX: 156.000–161.450 RX:156.000–163.425
Dimensions (projections not included; W × H × D)		60.9 × 145.8 × 43.8 mm	56 × 92 × 36.2 mm	52.5 × 125 × 30 mm	59.7 × 140.5 × 38.7 mm	56.5 × 134.0 × 31.2 mm
Weight (approximate)		357 g (With BP-306, antenna and MB-133)	281 g (With BP-294, FA-SC58V and MBB-3)	320 g (With BP-245H, MB-103 and FA-S64V)	293 g (with BP-296, FA-SC59V and MB-133)	228 g (With MB-133 and antenna)
Current drain (ap- proximate)	Transmit (High)	1.5 A	1.5 A	1.5 A	2.75 A	2.3 A
	Max. audio	350 mA (External SP) 700 mA (Internal SP)	450 mA	250 mA (External SP) 450 mA (Internal SP)	200 mA (External SP) 400 mA (Internal SP)	230 mA (External SP) 400 mA (Internal SP)
Audio output power	External SP	200 mW (8 Ω load)	700 mW typical (8 Ω load @ 1 kHz)	200 mW (8 Ω load)	200 mW (4 Ω load)	200 mW (4 Ω load)
	Internal SP @1 kHz	1500 mW typical (8 Ω load)	700 mW typical (12 Ω load)	700 mW typical (8 Ω load)	700 mW typical (8 Ω load)	700 mW typical (8 Ω load)
RF output power		5 W/1 W	5 W/3 W/1 W	5 W/3 W/1 W/0.5 W	5 W/1 W	5 W/2.5 W/1 W
Operating time (approximate)		10 hours (with BP-306)*1	21 hours (with BP-294)*1	Plus version 17 hours Basic version 20 hours (with BP-245H)*1	12 hours (with BP-296)*1	14 hours (with ECO Mode)
AIS Receiver		Built-in	–	–	–	–

Measurements made in accordance with EN 302-885 for IC-M94DE. EN 301-178 for IC-M73EURO, IC-M37E and IC-M25EURO. EN 301-178 and EN 300 086 for IC-M85E.

*1 Typical operation, TX:RX:Stand-by=5:5:90

Specifications for MF/HF Transceivers and AIS Transponder

MF/HF FIXED MOUNT TRANSCEIVERS

		IC-M804E	GM800
Frequency range (Unit: MHz)		TX: 1.6 – 27.5000 (ITU marine channels) RX: 0.5 – 29.9999 (continuous) DSC: 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045	TX: 1.6 – 27.5000 (ITU marine channels) RX: 0.5 – 29.9999 (continuous) DSC: 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045
Mode	RX/TX	J3E (USB), J2B (AFSK), F1B (FSK)	J3E (USB), F1B (FSK)
	RX only	J3E (LSB), A1A (CW), H3E (AM)	J3E (LSB), J2B (AFSK), A1A (CW), H3E (AM)
	DSC	F1B	F1B
Power supply requirement		12 V DC (10.8 – 15.6 V), 24 V DC (21.6 – 31.2 V) (negative ground)	24 V DC (21.6 – 31.2 V DC) (floating ground)
Dimensions (projections not included; W × H × D)	Main unit	367 × 95 × 260 mm	367 × 95 × 260 mm
	Controller	274 × 114 × 86 mm	274 × 114 × 86 mm
Weight (approx.)	Main unit	8.6 kg	8.6 kg
	Controller	760 g	760 g
Current drain	Transmit (Max. power)	Less than 40 A (at 12 V)* / Less than 20 A (at 24 V)*	Less than 20 A*
	Receive (Max. audio)	Less than 6.0 A (at 12 V) / Less than 3.0 A (at 24 V)	Less than 3.0 A
Sensitivity	J3E, A1A (20 dB SINAD)	30 dBμV emf (0.5 – 1.5999 MHz) 8 dBμV emf (1.6 – 29.9999 MHz)	30 dBμV emf (0.5–1.5999 MHz) 16 dBμV emf (1.6–3.9999 MHz) 11 dBμV emf (4.0–29.9999 MHz)
	J2B, F1B (1% error rate)	0 dBμV emf (1.6 – 29.9999 MHz)	3 dBμV emf (1.6–2.0999 MHz) 0 dBμV emf (2.1–27.5000 MHz)
	H3E (20 dB SINAD)	44 dBμV emf (0.5 – 1.5999 MHz) 24 dBμV emf (1.6 – 3.9999 MHz)	44 dBμV emf (0.5–1.5999 MHz) 30 dBμV emf (1.6–3.9999 MHz)
	DSC (J2B) (1% error rate)	0 dBμV emf	0 dBμV emf
Audio output power		4.0 W with 4 Ω load	4 W with 4 Ω load
RF output power		85 W PEP (1.6 – 3.9999 MHz) (at Tuner output) 125 W PEP (4.0 – 27.5000 MHz) (at Tuner output)	85 W (1.6–3.9999 MHz) (at Tuner output) 125 W (4.0–27.5000 MHz) (at Tuner output)

Measurements made in accordance with EN300 373-1 for GM800 and EN 303 402 for IC-M804E.

* at 1.1 kHz and 1.7 kHz two tones.

AIS TRANSPONDER

		MA-510TR
Frequency range (Unit: MHz)		161.5000 – 162.025 (AIS), 156.525 (DSC)
Type of emission		16K0GXW (GMSK) (AIS), 16K0G2B (DSC)
Power supply requirement		12 V or 24 V DC nominal (9.6 – 31.2 V DC)
Dimensions (projections not included; W × H × D)		166.2 × 110.2 × 92.5 mm
Weight (approximate)		700 g
Current drain	Transmit	1.5 A
	Receive	0.7 A
Sensitivity (20% error rate)		Less than – 110 dBm
Intermodulation rejection		More than – 36 dBm (AIS), More than – 39 dBm (DSC)
RF output power		2 W

Measurements made in accordance with IEC62287-1.



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