

ICOM



Marine Products





Float'n Flash™ VHF Handheld Transceivers



AIS screen



DISTRESS button



Industry First AIS Receive Handheld

VHF MARINE TRANSCEIVER WITH DSC & AIS **IC-M94D**

FEATURES

- Ultimate safety at sea with integrated GPS, DSC, and AIS receive
- 6 W RF output power
- 1500 mW, loud audio output
- 10 hours*¹ operating time
- BC-251 Charger cradle included
- IPX7 Submersible
- **Active Noise Canceling**
- Simplified navigation function and MOB
- 50 waypoint memories

Included Accessories

- BP-306 battery pack • BC-251 charger cradle
- BC-123SA/SE* AC adapter • MB-133 belt clip
- CP-26 cigarette lighter cable • FA-SC59V antenna • Hand strap
- * Depending on the transceiver version.

*¹ Approximate operating time at Tx : Rx : Standby = 5 : 5 : 90



Power and Performance

VHF MARINE TRANSCEIVER **IC-M37**

FEATURES

- Large keys and easy-to-grip design
- 6 W RF output power
- 700 mW, audio output
- 12 hours*¹ operating time
- BC-235 Charger cradle included
- IP57 Dust and Submersible
- Channel History function stores the last five channels
- Voice Loud and Mute functions
- Low Battery Alert

Included Accessories

- BP-296 battery pack • BC-235 charger cradle
- BC-217SA/SE* AC adapter • MB-133 belt clip
- FA-SC59V antenna • Hand strap
- * Depending on the transceiver version.



Marine Blue



Black

Economical with High Performance

VHF MARINE TRANSCEIVER **IC-M25**

FEATURES

- Slim body, lightweight and high performance
- 5 W RF output power
- 700 mW, audio output
- 11 hours*¹ operating time
- 3-hour rapid charger, integrated Micro-B USB charging
- IPX7 Submersible
- Large LCD and intuitive user interface
- 2-step power save
- Auto Scan function

Included Accessories

- AC adapter and USB cable • MB-133 belt clip
- FA-SC59V antenna • Hand strap • Battery cell is built-in
- * May differ or not supplied, depending on the transceiver version.



Commercial VHF Handheld Transceivers



Photo shows FA-S59V antenna version.



Photo shows FA-S59V antenna version.



Slim, Stylish, and Powerful Plus Professional Features

VHF MARINE TRANSCEIVERS **IC-M73 PLUS**

FEATURES

- Comfortable single hand operation
- 6 W RF output power
- 700 mW, audio output
- 17 hours*¹ operating time
- BC-210 Rapid charger included
- IPX8 Submersible Plus™ (1.5 m/ 30 min.)
- Last call voice recording
- Active noise canceling
- Bass Boost function

- Auto power save
- Auto Scan function

Included Accessories

- BP-245H battery pack • BC-210 rapid charger
- BC-123SA/SE* AC adapter • MB-103 belt clip
- FA-S59V or FA-S64V* antenna • CP-25H cigarette lighter cable
- Hand strap * Depending on the transceiver version.

Commercial Choice

VHF MARINE TRANSCEIVERS **IC-M73**

FEATURES

- Comfortable single hand operation
- 6 W RF output power
- 700 mW, audio output
- 17 hours*¹ operating time
- BC-210 Rapid charger included
- IPX8 Submersible Plus™ (1.5 m/ 30 min.)

- Auto power save
- Auto Scan function

Included Accessories

- BP-245H battery pack • BC-210 rapid charger
- BC-123SA/SE* AC adapter • MB-103 belt clip
- FA-S59V or FA-S64V* antenna • CP-25H cigarette lighter cable
- Hand strap * Depending on the transceiver version.

Marine and Land Mobile Combination

VHF MARINE TRANSCEIVER **IC-M85**

FEATURES

- Smallest VHF handheld transceiver
- 5 W RF output (2 W for LM channels)
- 700 mW, audio output
- 21 hours*¹ operating time
- BC-227 Rapid charger included
- IP67 Dust-tight and Submersible
- Internal Voice Scrambler
- 100 LM channels (CTCSS/DTCS)
- Emergency features: Man Down, Lone Worker, and MOB Alarm

- Auto power save
- MIL-STD rugged construction
- Internal VOX capability
- Variety of audio accessories

Included Accessories

- BP-294 battery pack • BC-227 rapid charger • BC-123SA/SE* AC adapter
- MBB-3 belt clip • FA-SC58V antenna • Hand strap
- * Depending on the transceiver version.

*¹ Approximate operating time at Tx : Rx : Standby = 5 : 5 : 30



Hybrid IP Transceiver



VHF Marine and LTE Hybrid for Offshore and Onshore Communication

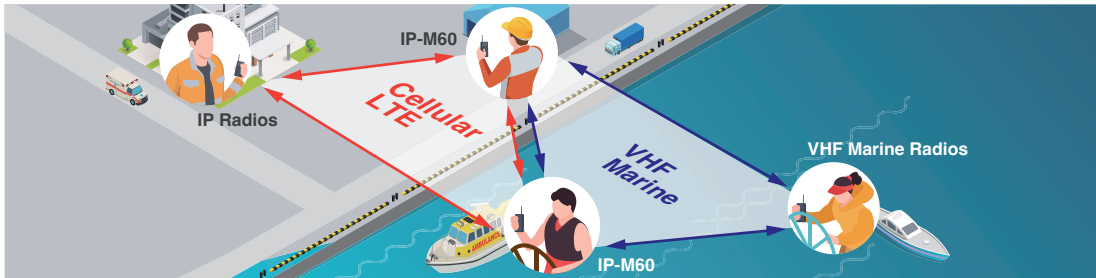
HYBRID IP TRANSCEIVER (LTE + VHF Marine)

IP-M60

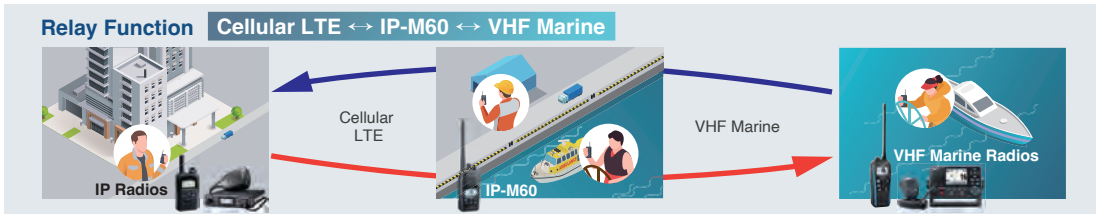


FEATURES

IP-M60 is a hybrid transceiver that provides nationwide coverage*1 over Cellular LTE networks and equivalent functions of Icom's handheld VHF marine transceivers



- Receives both the communications from a Cellular LTE radio group and a VHF marine channel at the same time (audio mixed)
- Easy to answer calls with independent PTT buttons (Main/Sub) for Marine or Cellular Mode
- Main PTT can also work as the universal answer-back for a quick response
- Transmit mode selection (Marine or Cellular Mode) depending on GPS location can be programmed
- The Relay function*2 transfers the voice to the other mode. It extends coverage range of communication.



- Wireless operation with built-in Bluetooth® capability
- Push an emergency button*3 to alert in the Cellular LTE talk group
- Simultaneous TalkListen™ in Cellular mode
- IP67 dust-tight and waterproof protection
- Cellular mode is compatible with Icom IP transceivers*4



*1 Coverage area depends the Cellular LTE network provider.

*2 The Relay function may be prohibited in some countries.

Please check the legal requirements in your country before using this function.

*3 Emergency button is for Cellular mode function, not for the marine mode.

*4 Compatible products are IP501H, IP503H, IP501M, IP730D, IP740D, etc.



Intrinsically Safe Transceiver



Intrinsically Safe Radio with 5 Watt Power Output

VHF MARINE TRANSCEIVER
IC-M85UL



FEATURES

- **Intrinsically safe:**
Class I, Division 1, Groups C D; Class II, Division 1, Groups E F G; Class III. T3C.
- **Non-incendive:** Class I, Division 2, Groups A B C D.
- **Ambient temperature:** -20°C (-4°F) ~ +60°C (+140°F)
- **Standards of safety:** ANSI/TIA-4950-B, ANSI/UL 121201
- **5 W* output power** (* 2 W LM channels for USA model) for hazardous locations
- **700 mW, audio output**
- **11 hours*¹ operating time**
- **IP67 Dust-tight and Submersible**
- **Emergency features: Man Down, Lone Worker, and MOB Alarm**

• Marine and land channel groups • Built-in CTCSS and DTCS tones
 • Auto power save • Auto Scan function • Optional HM-184UL speaker-microphone
 *1 Approximate operating time at Tx : Rx : Standby = 5 : 5 : 90

Included Accessories

• BP-292UL battery pack • BC-227 rapid charger • BC-123SA/SE* AC adapter • MBB-3 belt clip • FA-SC58V antenna
 • Hand strap * Depending on the transceiver version.

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 18~19).
 Please ask your dealer to ensure the rating is acceptable for the intended place of use.





VHF Fixed Mount Transceivers

Class-D DSC VHF Marine Radio with Smart Device App Control

VHF MARINE TRANSCEIVER **IC-M510** EVO



Stand-by screen



Navigation screen



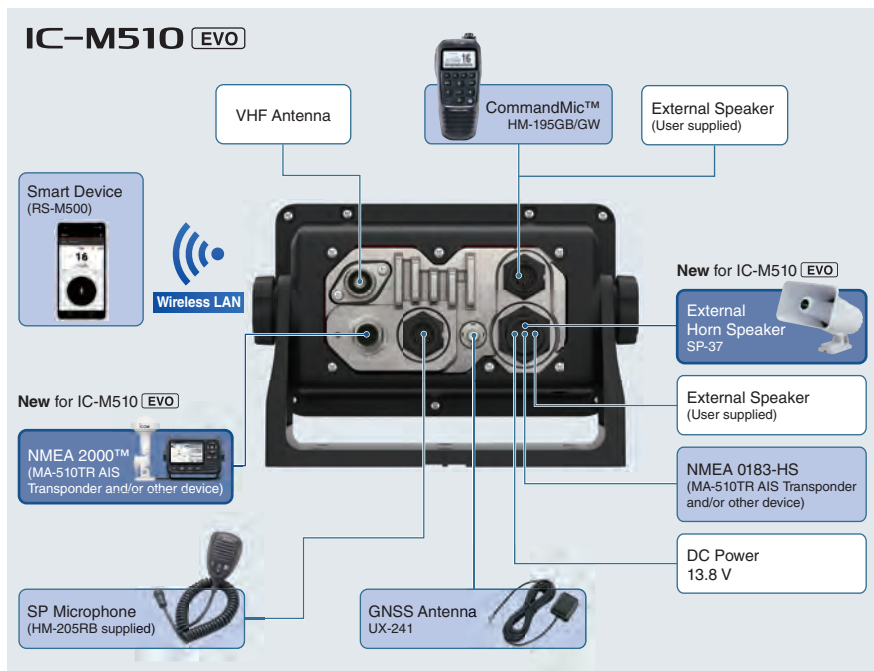
Night mode screen

FEATURES

- A large 3.5-inch, color TFT LCD, effortlessly switch between Night/Day mode
- Sleek design that won prestigious iF Design Award 2022
- Built-in NMEA 2000™, 25 W two-way Hailer and 20 W Foghorn/RX hailer
- Direct replacement of IC-M506, reducing depth by 50%
- Active Noise Canceling for RX and TX audio



- Integrated GNSS receiver (GPS) with internal or external antenna selection
- Versatile Speaker-Microphone configuration (Front, Rear, and CommandMic™)
- Loud, clear audio with improved fidelity
- iOS™/Android™ simple control and command from your smartphone (RS-M500)
- With/without AIS Receiver available
- IP68 Dust-tight and Submersible Plus™ (1 m/60 min.)
- Waterproof flash mount gasket supplied



VHF MARINE TRANSCEIVER **IC-M510**

Most features are equivalent to IC-M510 EVO. NMEA 2000™ connectivity and Two-way Hailer/RX Hailer function are available with the optional wireless interface box, CT-M500.

IC-M510 Separate Configuration



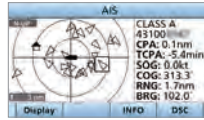


VHF Fixed Mount Transceivers

Premium Grade Class D DSC

VHF MARINE TRANSCEIVER

IC-M605



AIS plotter

TARGET LIST (93)			
MMSI/Name	RNG	BRG	
DAIEMARU NO.3	3.1	154	
GYOKO MARU	3.4	147	
MIRAI	3.4	249	
TDKUYO MARU NO.21	3.9	259	

AIS target list



Night mode screen



Product Award Winner



FEATURES

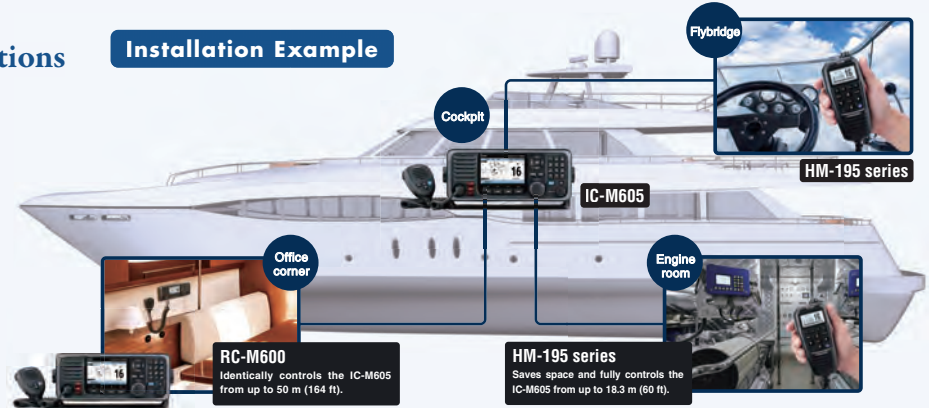
- A large 4.3-inch, color TFT LCD, with night mode
- Remote flexibility, up to three Command Head™ and CommandMic™
- NMEA 0183-HS and NMEA 2000™
- Integrated GNSS receiver (GPS) with external antenna
- Active Noise Canceling for RX and TX audio
- Class leading receiver performance (Selectivity and IMD: more than 80 dB)
- Internal 30 W two-way Hailer and Foghorn
- Two minutes last call voice recording
- IPX8 Submersible Plus™ (1 m/ 60 min.)
- With/without AIS Receiver available*

* AIS receiver unit is an option, depending on the transceiver version

Flexible Remote Control Configurations

The IC-M605 can be remotely controlled with up to three Command Head™/CommandMic™. The Command Head™ provides identical operation with the IC-M605 and the CommandMic™ allows you to use all functions including distress of the IC-M605. The Intercom function among the IC-M605, Command Head™ and CommandMic™ is convenient for internal conversation.

Installation Example



Identical Operation from Optional Full-sized Controller

COMMAND HEAD™

RC-M600



Space-Saving Compact Body

COMMANDMIC™

HM-195GB/GW

(White Backlight LCD)

HM-195B/SW

(Amber Backlight LCD)



* Photo shows HM-195GB.



VHF Fixed Mount Transceivers

Class D DSC Black Box Transceiver 3rd Station Capability

VHF MARINE TRANSCEIVER
IC-M510BB



* Above photo includes optional CommandMic™. One CommandMic™ is supplied with the IC-M510BB.

FEATURES

- Full remote control and intercom (up to three CommandMic™)
- DSC, DISTRESS button on the back of the CommandMic™
- NMEA 0183-HS and NMEA 2000™
- Integrated GNSS receiver (GPS)
- Active Noise Canceling for RX and TX audio
- Internal 15 W Hailer and Foghorn
- DSC remote interface to control from other device or PC (EN 300 338-8 compatible)
- Two minutes last call voice recording
- Integrated AIS receiver
- IPX7 Submersible



DISTRESS button



Class D DSC Black Box Transceiver 2nd Station Capability

VHF MARINE TRANSCEIVER
IC-M410BB

FEATURES

- Full remote control and intercom (up to two CommandMic™)
- DSC, DISTRESS button on the back of the CommandMic™
- NMEA 0183-HS and NMEA 2000™
- Integrated GNSS receiver (GPS)
- Active Noise Canceling for RX and TX audio
- Internal 15 W Hailer and Foghorn
- IPX7 Submersible



* Above photo includes optional CommandMic™. One CommandMic™ is supplied with the IC-M410BB.



VHF Fixed Mount Transceivers

Class D DSC, 2nd Station Transceiver

VHF MARINE TRANSCEIVER

IC-M424G

(With GPS Receiver)



CommandMic™, HM-195 series capable



FEATURES

- Simplicity with premium features
- Integrated GNSS receiver (GPS) with internal antenna (only)
- Active Noise Canceling for RX and TX audio
- Internal 10 W Hailer and Foghorn
- Add a second station with optional CommandMic™, HM-195 series
- IPX7 Submersible

Class D DSC Transceiver

VHF MARINE TRANSCEIVER

IC-M330G

(With GPS Receiver)



Supplied GPS antenna (IC-M330G)



FEATURES

- Compact radio with basic VHF features
- Simple, easy-to-read Dot Matrix display
- Integrated GNSS receiver (GPS) with external GPS antenna (only)
- Loud clear audio with great fidelity
- IPX7 Submersible

Class D DSC Capable Transceiver

VHF MARINE TRANSCEIVER

IC-M330

(Without GPS Receiver)



FEATURES

- Compact radio with basic VHF features
- Simple, easy-to-read Dot Matrix display
- External GPS data required for DSC operation
- Loud clear audio with great fidelity
- IPX7 Submersible

Class D DSC Capable Transceiver

VHF MARINE TRANSCEIVER

IC-M220

(Non-FCC model)

Export Only



FEATURES

- Compact radio with basic VHF features
- Simple, easy-to-read Dot Matrix display
- External GPS data required for DSC operation
- Loud clear audio with great fidelity
- IPX7 Submersible



Class B AIS Transponder

An AIS transponder on your boat automatically receives information broadcast by other AIS-equipped vessel's and base stations, all while your own vessel's static and dynamic information is being transmitted. Using with an AIS transponder, you can find AIS mounted small boats and buoys that are difficult to be detected with a marine radar. The MA-510TR can receive both Class A and B AIS signals and increases your safety at sea.



Risk Management and Simplified Navigation in One Package

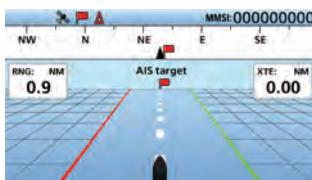
CLASS B AIS TRANSPONDER **MA-510TR**

TARGET LIST(6)		
MMSI/Name	RNG	BRG
△ASAMPLE1	0.4	309.5
△ASAMPLE2	1.2	283.4
△ASAMPLE3	2.0	277.9
△ASAMPLE4	2.8	275.6
△ASAMPLE5	3.6	274.4

AIS target list

DETAILS		← 4/6 →	
A	62 m	B	11 m
C	4 m	D	8 m
Length: 73 m			
Beam: 12 m			
Draught: 4.5 m			

Detail screen example



Navigation screen



FEATURES

- A large 4.3-inch, color TFT display, with night mode
- Navigation function guides you to the specified waypoints or AIS targets
- NMEA 0183-HS, and NMEA 2000™
- Compatible with 12 V and 24 V power sources
- Man OverBoard (MOB) function
- AIS data can be output from a USB cable connector*1
- Silent mode switches off the AIS transmitter for security and privacy
- You can pick up AIS targets on the display and send Individual DSC Calls*2
- Multi-language interface (English, French, Indonesian, Spanish and Vietnamese)
- Collision Alarm function
- Anchor Watch function
- GPS antenna supplied (WAAS, EGNOS, MSAS and GAGAN)

*1 A third party application and a connection cable are required.

*2 A compatible Icom VHF radio (IC-M605, IC-M510, IC-M510BB, IC-M410BB, IC-M424G or IC-M330/G) is required.

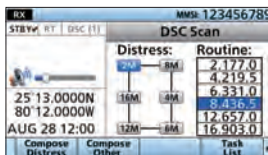


MF/HF Marine Transceivers

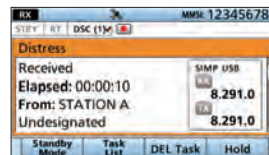
Long Range Communications Beyond the Horizon

MF/HF MARINE TRANSCEIVER

IC-M803



DSC scan screen



Example of received Distress screen



Night mode screen



FEATURES

- 150 W (PEP) RF output
- Built-in Class E DSC
- Front Panel DSC, Emergency Button
- 4.3-inch high contrast, color TFT LCD
- Integrated GNSS receiver (GPS, GLONASS and SBAS), 5 m cable and antenna supplied

- Advanced RF direct sampling, improved filtering for clean received signal
- HF E-mail ready* * Consult with an HF E-mail provider for details.
- Matching design with IC-M605 VHF transceiver
- IPX7 Submersible (Remote control head)
- Optional AT-140 Automatic Antenna Tuner

• 0.5–29.999 MHz continuous receiver coverage • NMEA 0183™ Version 4.10 data input/output (4800–38400 bps) • DSC Multi-task function • Channel scan, Channel Resume scan and Program scan • Display and keypad backlighting • External speaker connection

Reliable MF/HF Radio Covering All ITU HF Marine Channels

MF/HF MARINE TRANSCEIVER

IC-M710

Export Only

(Non-FCC model)



FEATURES

- Alphanumeric readout for programming channel names and quick access to channels
- 150 W* full duty operation
- A total of 1136 channels
- Rugged construction for withstanding harsh use

* 60 W (PEP) above the 24 MHz band.

Simplified Radio Telephone with 150 Watt Full Duty Operation

SSB RADIO TELEPHONE

IC-M700PRO

Export Only

(Non-FCC model)



FEATURES

- Quick channel selection with two large knobs
- 150 W* full duty operation
- Rugged construction for withstanding harsh use
- Large, easy-to-read green LCD

* 60 W (PEP) above the 24 MHz band.



Stand Alone Marine Radars

12.1-inch Color Radar with Simplified ARPA, 3D View and Plot Function

COLOR TFT MARINE RADAR

MR-1220 Series

(Non-FCC model)

Export Only



SC-R40:
2 ft radome scanner (4 kW)
for MR-1220R4



SC-T40:
4 ft open array scanner (4 kW)
for MR-1220T4



SC-T60:
4 ft open array scanner (6 kW)
for MR-1220T6



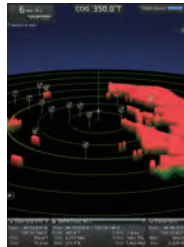
SC-T60L:
6.5 ft open array scanner (6 kW)
for MR-1220T6L



FEATURES

- 12.1-inch color TFT display (600 × 800 dots)
- 3D Display function
- Plot function tracks your route on the radar echo*1
- Simplified ARPA (Automatic Radar Plotting Aids)*1
- DSC (Digital Selective Calling) Information*1
- AIS (Automatic Identification System) Overlay *1
- An external buzzer*2 can be connected for warning of a predicted collision

*1 External bearing, speed, position, waypoint, variation, AIS and DSC data is (are) required, when you use these functions. *2 User supplied.



3D Display function (Night mode)

- Multi-language interface (English, Indonesian, Korean, Malay, Russian, Spanish, Thai, and Vietnamese)
- True Trail function*1
- TLL (Target Latitude Longitude) function*1
- Optional UX-234 video output unit for connection with an external display
- Stabilized head up mode*1

Simplified ARPA, AIS Target Plotting and DSC Information Display

COLOR TFT MARINE RADAR

MR-1010R II



2 ft Radome Scanner



Video output (UX-234 required)



FEATURES

- 10.4-inch color TFT display (480 × 640 dots)
- 36 NM range, 4 kW radome scanner
- Intuitive user interface
- Multi-language interface (English, Indonesian, Korean, Portuguese, Spanish, Thai and Vietnamese)

- AIS Overlay and Favorite AIS functions*1
- Simplified ARPA (Automatic Radar Plotting Aids) function*1
- DSC Information function*1
- True Trail function*1
- TLL (Target Latitude Longitude) function*1
- Optional UX-252*2 video output unit for connection with an external display

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

*2 UX-252 may not be usable, depending on the radar version.

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."

WLAN Radios



Full-Duplex Communication That Works Over a Wireless LAN and IP Network

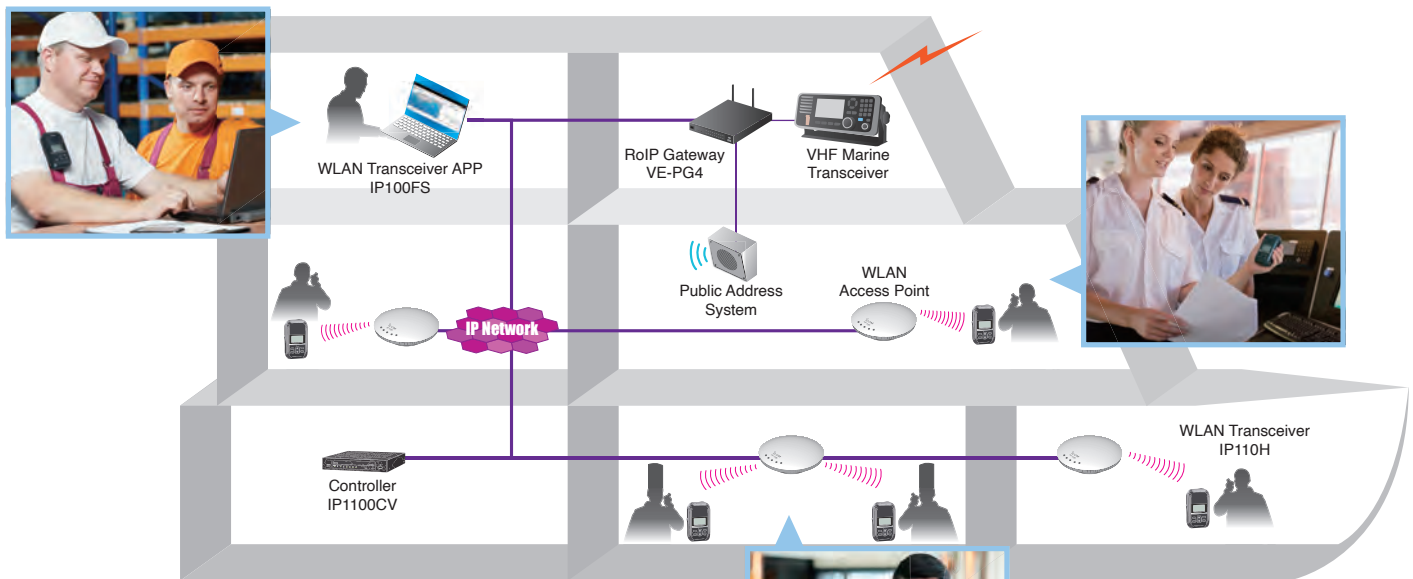
Wireless Communication System among Ship Crews

Individual, Group or Area Communication

Simultaneous TalkListen™



Interconnection between VHF Marine Transceiver and Public Address System



WLAN TRANSCEIVER IP110H

- Licence-free communication terminal
- WPA2, WPA-Enterprise security
- Optional Bluetooth® headset, VS-3
- IP67 waterproof and dust-tight
- Compact 57 × 96.9 × 25.1 mm (2.2 × 3.8 × 1.0 in) body and 146 g, (5.2 oz, approximate) lightweight
- Vibration alert function for incoming calls
- 1000 mW loud audio from internal speaker
- Motion/Stationary Detection, Man Down and Lone Worker functions



WLAN TRANSCEIVER CONTROLLER IP1100CV

- The IP1100CV controls all terminal configurations and voice traffic
- Capable of controlling up to 300 terminals (including IP100FS)
- Call Recording to an external USB flash drive



WLAN TRANSCEIVER APP IP100FS

(Supplied with USB flash drive for use as a USB hardware key)

- The IP100FS can communicate with IP communication terminals from a PC
- The IP100FS can obtain location information of each IP110H based on connection to access points
- Can be installed on a Windows™ based tablet PC as well as laptop PC



ROIP GATEWAY VE-PG4

- Versatile radio over IP gateway linking land mobile radios, WLAN transceivers, IP phone systems and external devices
- WLAN transceiver controller (Equivalent to the IP1100C function) built-in, capable of controlling up to 50 WLAN transceivers
- Call Recording to an external USB flash drive



GMDSS

Global Maritime Distress and Safety System

The Global Maritime Distress and Safety System (GMDSS) is the international radio safety system for ships mandated by the International Maritime Organization (IMO). The GMDSS system provides automated distress alerting and distress communication service with location information.

Class A DSC VHF Radio with Wide Viewing Angle Color TFT LCD

VHF MARINE TRANSCEIVER

GM600

(Non-FCC model)

Export Only



PS-310 DC-DC converter

Reliable Long Distance MF/HF Communication

MF/HF MARINE TRANSCEIVER

GM800

(Non-FCC model)

Export Only



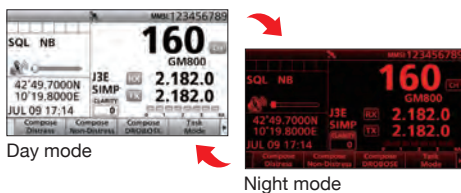


FEATURES

- Meets VHF GMDSS requirements for SOLAS ships
- Certified for European Marine Equipment Directive (MED)
- ITU Class A DSC
- Large and high contrast 4.3-inch color TFT LCD
- Intuitive user interface for straightforward operation
- 10 W audio output power with external speaker
- Dedicated DSC watch receiver for continuous Channel 70 monitoring

- Printer connector (D-SUB 25-pin) • VDR (Voyage Data Recorder)/External speaker connector
- IEC 61162-1 input/output • Superior sound quality with a wide frequency range and a flat frequency response
- Optional HS-98 (#16) handset • IPX7 submersible for front panel
- Dualwatch and Tri-watch functions • Instant access to Ch 16 and Call channel
- Tag Scan and Favorite Channel functions • Priority Scan function
- Unified design with GM800 (MF/HF)

Please Note: Optional PS-310 MUST BE USED with GM600 for MED certification compliance.



FEATURES

- Meets MF/HF GMDSS requirements for SOLAS ships
- Certified for European Marine Equipment Directive (MED)
- ITU Class A DSC
- Large and high contrast 4.3-inch color TFT LCD
- Intuitive user interface for straightforward operation
- Dedicated DSC watch receiver for continuous scanning of the six distress channels
- AT-141 automatic antenna tuner

- Output power: 150 W² PEP into 50 Ω (at radio terminal) • Built-in 24 V DC-DC converter
- Parallel printer port • External SP connector
- IEC 61162-1 input/output • Superior sound quality with a wide frequency range and a flat frequency response
- HS-98 (#17) supplied handset • IPX7 submersible for controller
- Maximum 160 programmable channels • Program scan, channel scan and channel resume scan
- Unified design with GM600 (VHF)

*1 This model is currently being recertified to the latest MED Directive. Please consult with your local regulatory authorities regarding installation and/or "Wheelmark" requirements.

*2 125 W (4.0–27.5 MHz) (at tuner-output), 85 W (1.6–3.999 MHz) (at tuner-output)

Please Note: The complete GMDSS installation for MF/HF DSC (Class A) and telephony additionally requires the optional AT-141 antenna tuner.



SURVIVAL CRAFT 2-WAY RADIO IC-GM1600 GMDSS Portable for Survival Craft

FEATURES

- Meets strict environmental requirements for GMDSS
- 2 W output power and long lasting battery
- BP-234 primary (non-rechargeable) lithium battery pack
- Highly visible yellow-colored body

- Auto power save • 4-step battery indicator

Included Accessories

- IC-GM1600, Survival Craft Package
- BP-234 battery pack • MB-103Y belt clip • Antenna • Neck strap
- IC-GM1600 21K, Daily Use Package
- BP-234 battery pack • BP-252 battery pack • BC-173 regular charger • MB-103Y belt clip • Antenna • Neck strap
- * Depending on the transceiver version.

Satellite PTT Radios



What is Satellite PTT?

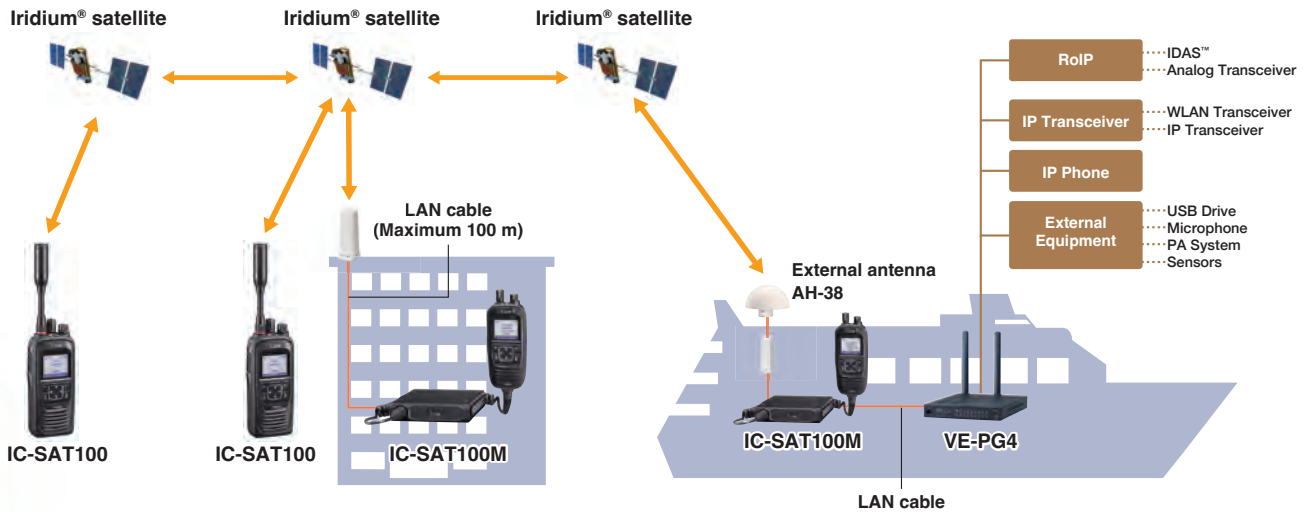
SATELLITE PTT (Push-To-Talk) is a transceiver that uses the Iridium® satellite network. It can be used as a communication device in remote, isolated areas and the sea where there are no mobile phones or communications infrastructure. Even if the terrestrial network infrastructure is rendered unusable by human or natural disasters, SATELLITE PTT can provide a stable back-up, independent from other networks.

One-to-Many Communications

Total Global Coverage, including the Poles*1

Real-Time, Low-Latency Communication

Conventional Radios and IP Phones Interconnection *2



SATELLITE PTT IC-SAT100

- Emergency key on the top panel
- IP67 dust-tight and submersible protection
- 1500 mW of powerful audio
- 14.5 hours of long lasting battery life*3
- Short Data Message
- Voice Recording function
- Built-in Bluetooth® capability*4
- SMA type antenna connection
- USB charging
- AES 256-bit encryption for security

SATELLITE PTT IC-SAT100M

- Emergency key on the top panel
- Satellite communication in-vehicle and in-building
- LAN cable (maximum 100m) connects antenna and main unit
- Supplied multi-functional speaker-microphone
- Power supply requirement: 13.2 V/26.4 V DC
- Antenna: IP67, microphone: IP55, main unit: IP54
- 1500 mW audio output
- Short Data Message
- Voice Recording function
- Built-in Bluetooth® capability*4
- AES 256-bit encryption for security



Antenna unit (with RF unit)



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

*2 Optional VE-PG4 RoIP gateway and OPC-2412 connection cable are required for the IC-SAT100. Optional VE-PG4 RoIP gateway and a LAN cable are required for the IC-SAT100M.

*3 TX : RX : standby = 5 : 5 : 90. *4 Version without Bluetooth® also available. Ask your dealer for details.



Optional Accessories (for the IC-SAT100)

Docking Station for In-Vehicle Use



DOCKING STATION
BC-247
 Charger cradle for in-vehicle and in-building use. 12/24 V battery compatible.

ONE-TOUCH ANTENNA CONNECTOR
FA-S103U
 Easily replace the antenna tip to an external antenna. (SMA to BNC)

EXTERNAL ANTENNA
AH-40
 Magnet mount antenna with 1.5 m, 4.9 ft coaxial cable.

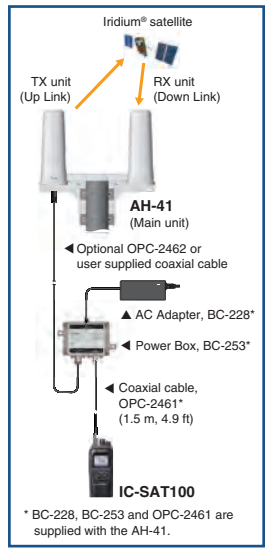
SPEAKER-MICROPHONE
HM-222H
 Use the HM-222H (or an external headset) to transmit, while the radio is attached to the BC-247.

Active Antenna for In-Building Use



EXTERNAL ANTENNA
AH-41
 Maximum 169 m; 554.5 ft* coaxial cable for installing in a clear location to obtain a line-of-sight path to the satellite.

* Use optional OPC-2462 (59 m; 193.5 ft) or user supplied coaxial cable (Max. 169 m; 554.5 ft) to meet Iridium® performance requirements, and comply with FCC regulations.



* BC-228, BC-253 and OPC-2461 are supplied with the AH-41.



HEADSET
VS-3
 Bluetooth® headset



MULTI-CHARGER
BC-214N^{*1}
 Charges up to six batteries (with/without transceivers) at the same time. (BC-157S, AC adapter supplied.)



COAXIAL CABLE
OPC-2422
 Coaxial cable (5D-HFA) for the AH-40. 5 m, 16.4 ft



EXTERNAL ANTENNA
AH-38
 Pole mount passive antenna. OPC-2113 coaxial cable separately required.



COAXIAL CABLE
OPC-2113^{*2}
 Coaxial cable (5D-HFA) for the AH-38. 10 m; 32.8 ft



COAXIAL CABLE
OPC-2462
 Coaxial cable (5D-HFA) for the AH-41. 59 m; 193.5 ft

For more information check the Icom website:



^{*1} The AD-140 charger adapters are supplied with the BC-214N, depending on the charger version.
^{*2} Use optional OPC-2113 or user supplied coaxial cable (Max. 45 m, 147.6 ft) to obtain a line-of-sight path to the satellite.

Optional Accessories (for the IC-SAT100M)



EXTERNAL SPEAKER
SP-30



EXTERNAL SPEAKERS
SP-35 / SP-35L
 SP-35: 2 m, 6.5 ft cable
 SP-35L: 6 m, 19.6 ft cable



HEADSET
VS-3
 Bluetooth® headset



AC ADAPTER
BC-157S
 12 V/7.5 A output for use with the main unit.



ANTENNA
AH-40
 Magnet mount antenna 1.5 m, 4.9 ft coaxial cable for in-vehicle use.



EXTENSION CABLE
OPC-2429
 Extension cable for use with supplied speaker-microphone 2 m, 6.5 ft



COAXIAL CABLE
OPC-2422
 Extension cable between the AH-40 and the radio. 5 m, 16.4 ft

IC-SAT100/M Short Data Message Applications for iOS™/Android™ devices









SHORT DATA MESSAGE APPLICATION
RS-SAT100










This application lets a user send and receive a short data message from a phone through the satellite. Use Bluetooth® connection between the radio and iOS™/Android™ device.









Features

- Easy texting similar to a chat or SNS application using a large display and keyboard on the iOS™/Android™ device
- Download free on App Store or Google Play™

Optional Accessories for VHF Handheld Transceivers

MODEL NAME	BATTERY PACKS							
	BP-292UL (Li-ion) 7.2 V/1910 mAh (min.) 2010 mAh (typ.)	BP-306 (Li-ion) 7.2 V/2280 mAh (min.) 2400 mAh (typ.)	BP-245H (Li-ion) 7.2 V/2000 mAh (min.) 2150 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-252 (Li-ion) 7.2 V/1000 mAh (min.) 1050 mAh (typ.)	BP-234 (Lithium) (non-rechargeable) 9.0 V/3300 mAh	BP-303 (Li-ion) 7.2 V/3200 mAh (min.) 3350 mAh (typ.)
IC-M94D								
IC-M73		✓	✓					
IC-M37				✓				
IC-M25*1								
IC-M85					✓			
IC-M85UL	✓							
IC-GM1600						(On-board use only)	(For survival craft)	
IP-M60								✓

MODEL NAME	BATTERY CASES			DESKTOP CHARGERS					
	BP-297*2 LR03 (AAA) × 3 cells	BP-291 LR6 (AA) × 5 cells	BC-251 Charger cradle	BC-210*3 Desktop charger	BC-235 Charger cradle	BC-219N*3 Rapid charger	BC-225*3 Intelligent rapid charger	BC-226*4 Connectable type. Connects up to six BC-226 units.	BC-227*3 Rapid charger
IC-M94D									
IC-M73			✓	✓					
IC-M37	✓				✓				
IC-M25									
IC-M85		✓				✓	✓	✓	✓
IC-M85UL								✓*5	✓*5
IC-GM1600									
IP-M60								✓	✓

MODEL NAME	DESKTOP CHARGERS	MULTI-CHARGERS		AC ADAPTERS				
	BC-173 Regular charger	BC-214N Rapid charger	BC-238*6 Rapid charger	BC-242 12 V/1 A	BC-123S*7 12 V/1 A	BC-157S 12 V/7.5 A	BC-228 15 V/4 A	BC-147S*7 12 V/250 mA
IC-M94D								
IC-M73				(Use with BC-251)	(Use with BC-251)			
IC-M37			(AD-138 included)		(Use with BC-210)			
IC-M25								
IC-M85		(Use #62-#63, AD-132N included)			✓(Use with BC-219N, BC-225, BC-226 or BC-227)	(Use with BC-214N)	(Use with BC-226)	
IC-M85UL					(Use with BC-227)		(Use with BC-226)	
IC-GM1600	(for BP-252)							(Use with BC-173, On-board use only)
IP-M60		(Use #63-#63, AD-132N included)			(Use with BC-226 or BC-227)	(Use with BC-214N)	(Use with BC-226)	

*1 As the Lithium-ion battery pack (3.7 V 1500 mAh) is built into the radio, the user cannot change the battery pack.

*2 The IC-M37 floats when used with most common brand AAA batteries. Battery weight varies by manufacturer.

Please check your IC-M37 for buoyancy in a shallow area first when using AAA batteries.

*3 AC adapter supplied, depending on charger version.

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

*5 The battery charger must not be used in an explosive atmosphere.

*6 DC power cable is supplied with the BC-238, depending on the transceiver version.










*7 BC-123/BC-147/BC-217SA for USA plug, SE for Europe plug, SV for Australia plug.










The IC-M85UL version should only be used with the specified Intrinsically Safe approved options.










Some options may not be available in some countries.

Please ask your dealer for details.

Optional Accessories for VHF Handheld Transceivers

MODEL NAME	USB CHARGERS		USB CABLE	CIGARETTE LIGHTER CABLES		DC POWER CABLE	READER SOFTWARE	SPEAKER-MICROPHONES	
	BC-217S*7 5 V/1 A	BC-258A 5 V/2 A	OPC-2394	CP-25H	CP-23L	OPC-515L	RS-BC225 Intelligent charger software for Windows™ PC	HM-184UL Submersible	HM-228 Submersible
									
IC-M94D				✓ (Use with BC-251)					✓
IC-M73				✓ (Use with BC-210)		✓ (Use with BC-210)			
IC-M37	✓ (Use with BC-235)								
IC-M25	✓	✓ (Use with OPC-2394)	✓ (Use with BC-258A)						
IC-M85					✓ (Use with BC-219N, or BC-227)	✓ (Use with BC-219N, BC-225 or BC-227)	✓ (Use with BC-225)		
IC-M85UL				✓ (Use with BC-227)	✓ (Use with BC-227)	✓ (Use with BC-227)		✓	
IC-GM1600									
IP-M60									

MODEL NAME	SPEAKER-MICROPHONES							TIE-CLIP MICROPHONES	
	HM-165 Floating	HM-202 Submersible	HM-167 Submersible	HM-213 Floating	HM-222H Submersible	HM-236 Submersible	HM-184H Submersible	HM-163MC	HM-238MC
									
IC-M94D	✓								
IC-M73		✓	✓						
IC-M37				✓					
IC-M25				✓					
IC-M85						✓		✓	
IC-M85UL									
IC-GM1600			✓						
IP-M60					✓		✓		✓

MODEL NAME	HEADSETS				PTT SWITCH CABLE	EARPHONES			
	VS-3 Bluetooth® headset	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type	HS-97 Throat microphone type	VS-5MC Manual PTT/VOX operation	EH-15B 2.5 mm plug	SP-26 Tube earphone	SP-28	SP-27 Tube earphone 3.5 mm plug
									
IC-M94D									
IC-M73									
IC-M37									
IC-M25									
IC-M85		✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓	✓ (Use with HM-163MC)	✓ (Use with HM-163MC)	✓ (Use with HM-163MC)	✓ (Use with AD-135)
IC-M85UL									
IC-GM1600									
IP-M60	✓	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓	✓ (Use with HM-238MC)	✓ (Use with HM-238MC)	✓ (Use with HM-238MC)	✓ (Use with HM-222H)






: Applicable

: Not applicable

Some options may not be available in some countries. Please ask your dealer for details.

Optional Accessories for VHF Handheld Transceivers

MODEL NAME	EARPHONES		ACC ADAPTERS		BELT CLIPS		BELT HANGERS		
	SP-29	SP-40	AD-118 6-Pin Hirose plug adapter	AD-135 3.5 mm jack earphone adapter	MB-86 MB-136	MB-103 MB-133 MBB-3	MB-96N	MB-96F	MB-96FL Long type
IC-M94D									
					Photo shows MB-86	Photo shows MB-133			
IC-M94D						(Use MB-133)		✓	✓
IC-M73					(Use MB-86)	(Use MB-103)	✓	✓	✓
IC-M37						(Use MB-133)			
IC-M25						(Use MB-133)			
IC-M85	(Use with AD-135) ✓	(Use with AD-135) ✓	✓	✓	(Use MB-136) ✓	(Use MBB-3) ✓	✓	✓	✓
IC-M85UL					(Use MB-136) ✓	(Use MBB-3) ✓	✓	✓	✓
IC-GM1600					(Use MB-86) ✓		✓	✓	✓
IP-M60	(Use with HM-222H) ✓	(Use with HM-222H) ✓			(Use MB-136) ✓	(Use MB-133) ✓	✓	✓	✓

MODEL NAME	CARRYING CASES				ANTENNAS
	LC-187 Charging is possible while the case is attached.	LC-188	LC-191 Charging is possible while the case is attached.	LC-195 Charging is possible while the case is attached.	FA-S59V FA-S64V FA-SC58V FA-SC59V
					
IC-M94D					FA-SC59V
IC-M73					FA-S59V or FA-S64V
IC-M37					FA-SC59V
IC-M25					FA-SC59V
IC-M85	✓	✓			FA-SC58V
IC-M85UL			✓		FA-SC58V
IC-GM1600					Fixed type
IP-M60				✓	FA-S59V

The IC-M85UL version should only be used with the specified Intrinsically Safe approved options.
Some options may not be available in some countries. Please ask your dealer for details.

Optional Accessories for VHF Fixed Mount Transceivers

MODEL NAME	HAND MICROPHONES				COMMAND HEAD™	COMMANDMIC™		HANDSET	HORN SPEAKER
	HM-205B/RB Speaker microphone	HM-235B/W	HM-237B	HM-214V (#12)	RC-M600 HM-205RB and 10 m; 32.8 ft cable supplied	HM-195B/SW 6.1 m; 20 ft cable supplied	HM-195GB/GW 6.1 m; 20 ft cable supplied	HS-98 (#16)	SP-37
IC-M605	✓ (Use HM-205RB)				✓	✓ (Use with OPC-2384)	✓ (Use with OPC-2384)		✓
IC-M510 EVO	✓ (Use HM-205RB)					✓	✓		✓
IC-M510BB						✓	✓		✓
IC-M410BB						✓	✓		✓
IC-M424G	✓ (Use HM-205B)					✓	✓		✓
IC-M330G		✓ (Same as supplied)							✓
IC-M330		✓ (Same as supplied)							✓
IC-M220			✓ (Same as supplied)						✓
GM600				✓ (Same as supplied)				✓	

MODEL NAME	FRONT PANEL COVER	CONVERSION CABLES			EXTENSION CABLES			DC-DC CONVERTER	FLUSH MOUNT KITS
	MBZ-1	OPC-2384 12-pin to 8-pin Required for IC-M605 and CommandMic™ connection	OPC-2522L L-type conversion adapter cable for HM-205RB	OPC-2523L L-type conversion adapter cable for CommandMic™	OPC-2377 10 m; 32.8 ft cable for use with Command Head™	OPC-1541 6.1 m; 20 ft cable for use with CommandMic™ and rear microphone connection	OPC-1000 6.1 m; 20 ft cable for use with rear microphone connection	PS-310 #11 24 V input #12 12 V input	MB-75 MB-132 MBF-5 MBF-7 MBF-9
IC-M605		✓ (Use with HM-195)	✓ (Use with HM-205RB)	✓ (Use with HM-195)	✓ (Use with RC-M600)	✓ (Use with HM-195, HM-205RB)	✓ (Use with HM-205RB)		✓ (Use MB-75 or MB-132)
IC-M510 EVO	✓		✓ (Use with HM-205RB)	✓ (Use with HM-195)		✓ (Use with HM-195)	✓ (Use with HM-205RB)		✓ (Use MBF-7 or MBF-9)
IC-M510BB				✓ (Use with HM-195)		✓ (Use with HM-195)			
IC-M410BB				✓ (Use with HM-195)		✓ (Use with HM-195)			
IC-M424G				✓ (Use with HM-195)		✓ (Use with HM-195)			✓ (Use MB-132)
IC-M330G									✓ (Use MBF-5)
IC-M330									✓ (Use MBF-5)
IC-M220									✓ (Use MBF-5)
GM600							✓		

MODEL NAME	SOFTWARE	AIS RECEIVER UNIT	VOICE SCRAMBLER	GNSS ANTENNA
	RS-M500*1 For iOS™/Android™ device	UX-251	UT-112A Total of 32 voice scramble codes available	UX-241
IC-M605		✓*2 (Installed, depending on version)	✓	✓ (Same as supplied)
IC-M510 EVO	✓		✓	✓
IC-M510BB				✓
IC-M410BB				✓
IC-M424G				
IC-M330G				
IC-M330				
IC-M220				
GM600				

IC-M605 Configuration Variations

	AIS Receiver
IC-M605 AIS	Integrated
IC-M605	Not included*

* Optional UX-251 is required for AIS receiver.

IC-M510 EVO Configuration Variations

	AIS Receiver
IC-M510 EVO AIS	Integrated
IC-M510 EVO	Not included

☑ : Applicable








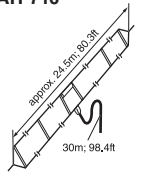
☐ : Not applicable





*1 Free download app for iOS™/Android™. Download on Google Play™/App Store.

*2 See configuration chart (right).



Some options may not be available in some countries. Please ask your dealer for details.

Optional Accessories for MF/HF Transceivers




MODEL NAME	HAND MICROPHONES		HANDSET	EXTERNAL SPEAKERS		FLUSH MOUNT KIT	MOUNTING BRACKET	FOLDED DIPOLE ANTENNA
	HM-214H	HM-180	HS-98 (#17)	SP-24	SP-24E	MB-75	MB-108	AH-710
								
GM800	✓		✓		✓		✓	
IC-M803	✓			✓		✓		✓
IC-M710		✓						✓
IC-M700PRO		✓						✓

MODEL NAME	ANTENNA TUNERS			SHIELDED CONTROL CABLES	
	AT-130 IPX4	AT-140 IPX4	AT-141 IPX6	OPC-1465 10 m; 32.8 ft	OPC-566 10 m; 32.8 ft
					
GM800			✓	✓ (Use with AT-141)	
IC-M803		✓		✓ (Use with AT-140)	
IC-M710	✓	✓			✓ (Use with AT-130)
IC-M700PRO	✓	✓			✓ (Use with AT-130)

Optional Accessories for AIS Transponder

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









Optional Accessories for Marine Radars

MODEL NAME	VIDEO OUTPUT UNITS		SYSTEM CABLE
	UX-234	UX-252	OPC-2340 30 m (98.4 ft)
			
MR-1220	✓		✓
MR-1010RII		✓	✓

: Applicable
 : Not applicable

Some options may not be available in some countries.
Please ask your dealer for details.









Functions / Specifications for VHF Handheld Transceivers

		IC-M94D	IC-M37	IC-M25	IC-M73 PLUS IC-M73	IC-M85	IC-M85UL	IC-GM1600	IP-M60	
										
Functions	Channel groups	USA, CAN, INT, Weather DSC, AIS	USA, CAN, INT, Weather	USA, CAN, INT, Weather	USA, CAN, INT, Weather	USA, CAN, INT, Weather 100 LMR channels	USA, CAN, INT, Weather 100 LMR channels	Survival operation channels	USA, CAN, INT, Weather LTE	
	4-digit channels	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Weather alert	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes	No	Yes*1	
	Dualwatch and Tri-watch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Instant channel 16 button	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Call channel)	Yes	
	Favorite channel and scan	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	
	DSC and DISTRESS	Yes (Class H)	No	No	No	No	No	No	No	
	Integrated GNSS receiver	Yes	No	No	No	No	No	No	Yes (for Cellular)	
	MOB (Man Over Board)	Yes	No	No	No	No	No	No	No	
	AIS receiver	Yes	No	No	No	No	No	No	No	
	CPA/TCPA alarm	Yes	No	No	No	No	No	No	No	
	Float'n Flash™	Yes	Yes	Yes	No	No	No	No	No	
	AquaQuake™	Yes	Yes	Yes	Yes	No	No	No	Yes	
	LCD backlight	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Active Noise Canceling	Yes	No	No	Yes (IC-M73 PLUS)	No	No	No	Yes	
	Automatic recording	No	No	No	Yes (IC-M73 PLUS)	No	No	No	Yes (for Cellular)	
	Bass boost	No	No	No	Yes (IC-M73 PLUS)	No	No	No	No	
Optional Speaker-microphone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Specifications	Frequency range (Unit: MHz)	TX	156.025–157.425	156.025–157.425	156.025–157.425	156.025–157.425	156.025–157.425	156.025–157.425	156.300–156.875	156.025–157.425
		RX	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.300–156.875	156.050–163.275
		DSC	156.525	—	—	—	—	—	—	—
		AIS	162.025	—	—	—	—	—	—	—
		LMR (TX/RX)	—	—	—	—	136–174	136–174	—	—
	LTE/3G bands	—	—	—	—	—	—	—	—	LTE: B2, B4, B12 W-CDMA: B2, B5
	Dimensions (W × H × D; Projections not included)	60.9 × 145.8 × 43.8 mm, 2.4 × 5.7 × 1.7 in	59.7 × 140.5 × 38.7 mm, 2.4 × 5.5 × 1.5 in	56.6 × 134.2 × 30.5 mm, 2.2 × 5.3 × 1.2 in	52.5 × 125 × 30 mm, 2.1 × 4.9 × 1.2 in	56 × 92 × 36.2 mm, 2.2 × 3.6 × 1.4 in	56 × 92 × 34.1 mm, 2.2 × 3.6 × 1.4 in	65 × 145 × 44 mm, 2.6 × 5.7 × 1.7 in	53.7 × 121.7 × 36.6 mm, 2.1 × 4.8 × 1.4 in	
	Weight (approximate)	357 g; 12.6 oz (With BP-306, MB-133 and Ant.)	293 g; 10.3 oz (With BP-296, MB-133 and Ant.)	218 g; 7.7 oz (With MB-133 and Ant.)	320 g; 11.3 oz (With BP-245H, MB-103 and FA-S59V)	281 g; 9.9 oz (with BP-294, MBB-3 and Ant.)	285 g; 10.1 oz (With BP-292UL, MBB-3 and Ant.)	385 g; 13.6 oz (With BP-234)	320 g; 11.3 oz (with BP-303, MB-133 and Ant.)	
	Current drain (approximate)	TX	1.5 A	2.75 A	2.3 A	1.5 A typical	1.5 A (at 5 W) 0.9 A (at 2 W)*3	1.5 A (at 5 W) 0.9 A (at 2 W)*3	1.0 A (at 2 W) 0.7 A (at 1.2 W)	1.6 A (at 5 W)
		RX (Internal SP)	700 mA typical	400 mA	400 mA typical	450 mA typical	450 mA typical	450 mA typical	200 mA	520 mA
		Max. Audio (External SP)	350 mA typical	200 mA	200 mA typical	250 mA typical	—	—	400 mA	—
	Sensitivity (at 12 dB SINAD)	0.25 µV typical	0.25 µV typical	0.25 µV typical	0.22 µV typical	0.25 µV typical	0.25 µV typical	0.25 µV typical	0.20 µV typical	0.25 µV typical
	Intermodulation rejection	70 dB typical	70 dB typical	70 dB typical	70 dB typical	70 dB typical	70 dB typical	70 dB typical	70 dB typical	70 dB typical
	Audio output power (10% distortion)	(Internal SP)	1500 mW typical	700 mW typical	700 mW typical	700 mW typical	700 mW typical	700 mW typical	700 mW typical	1500 mW typical
		(External SP)	350 mW typical	300 mW typical	300 mW typical	350 mW typical	700 mW typical	700 mW typical	350 mW typical	1500 mW typical*4
	Output power	6 W or 1 W	6 W or 1 W	5 W or 1 W	6 W, 3 W or 1 W	5 W, 3 W or 1 W 2 W or 1 W*3	5 W, 3 W or 1 W 2 W or 1 W*3	2 W or 1.2 W	5 W or 1 W	
	Operating time approximate*2	10 hours (with BP-306)	12 hours (with BP-296)	11 hours (with built-in battery)	17 hours (PLUS version) 20 hours (Basic version) (with BP-245H)	21 hours (with BP-294)	11 hours (with BP-292UL)	Specified as per IMO A.809 (19)	Cellular: 24 hours Marine: 13 hours (with BP-303)	
Submersible protection	IPX7 (1 m depth for 30 min.)	IP57 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX8 (1.5 m depth for 30 min.)	IP67 (1 m depth for 30 min.)	IP67 (1 m depth for 30 min.)	Specified as per IMO A.809 (19)	IP67 (1 m depth for 30 min.)		

Measurements made in accordance with TIA/EIA603 for IC-M94D, M37, M25, M73, M73 PLUS, M85, M85UL. TIA/EIA603 and FCC Part 80.271 for IC-GM1600. TIA/EIA603 and 3GPP TS-36 for IP-M60.

*1 Depending on the version. *2 Typical operation, Tx : Rx : Stand-by=5 : 5 : 90 *3 Land mobile channels for USA Version. *4 When used with HM-222H.





Functions / Specifications for VHF Fixed Mount Transceivers

		IC-M605	IC-M510 EVO	IC-M510BB	IC-M410BB	IC-M424G	IC-M330G IC-M330	IC-M220	GM600	
										
Functions	Channel groups	USA, CAN, INT, Weather DSC, AIS	USA, CAN, INT, Weather DSC, AIS	USA, CAN, INT, Weather DSC, AIS	USA, CAN, INT, Weather DSC	USA, CAN, INT, Weather DSC	USA, CAN, INT, Weather DSC	USA, CAN, INT, Weather DSC	INT DSC	
	4-digit channels	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Weather alert	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	No	
	Dualwatch and Tri-watch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Instant channel 16 button	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Favorite channel and scan	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	DSC and DISTRESS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Integrated GNSS (GPS) receiver	Yes	Yes	Yes*2 (GNSS antenna required)	Yes*2 (GNSS antenna required)	Yes	Yes (IC-M330G)	No	No	
	MOB (Man Over Board) location	No	Yes	Yes	No	No	No	No	No	
	AIS receiver	Yes*3	Yes*3	Yes	No	No	No	No	No	
	CPA/TCPA alarm	Yes	Yes	Yes	No	No	No	No	No	
	NMEA interface	NMEA 2000 NMEA 0183	NMEA 2000 NMEA 0183	NMEA 2000 NMEA 0183	NMEA 2000 NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183	NMEA 0183
	AquaQuake™	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
	LCD backlight	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Active Noise Cancelling	Yes	Yes	Yes	Yes	No	No	No	No	
	Voice recorder	Yes	No	Yes	No	No	No	No	No	
	RX Hailer and Foghorn	Yes (2-Way)	Yes (2-Way)	Yes	Yes	Yes	No	No	No	
Optional CommandMic™	Up to 3 stations	Yes	Up to 3 stations	Up to 2 stations	Yes	No	No	No		
Specifications	Frequency range (Unit: MHz)	TX	156.025–161.600	156.025–157.425	156.025–157.425	156.025–157.425	156.025–157.425	156.025–157.425	156.025–161.600	
		RX	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.050–163.275	156.025–162.000	
		DSC	156.525	156.525	156.525	156.525	156.525	156.525	156.525	
		AIS	161.975, 162.025	161.975, 162.025	161.975, 162.025	—	—	—	—	
	Power supply requirement	13.8 V DC ±15%	13.8 V DC ±15%	13.8 V DC ±15%	13.8 V DC ±15%	13.8 V DC ±15%	13.8 V DC ±15%	13.8 V DC ±15%	24 V DC (21.6 ~ 31.2 V DC)	
	Dimensions	274 × 114 × 121.5 mm, 10.8 × 4.5 × 4.8 in	175 × 110 × 53 mm, 6.9 × 4.3 × 2.1 in	RF Unit: 216 × 79 × 113 mm, 8.5 × 3.1 × 4.4 in HM-195: 67.5 × 144.5 × 37 mm, 2.7 × 5.7 × 1.5 in		180 × 82 × 119.9 mm, 7.1 × 3.2 × 4.7 in	156.5 × 66.5 × 88.2 mm, 6.2 × 2.6 × 3.5 in	156.5 × 66.5 × 110.1 mm, 6.2 × 2.6 × 4.3 in	263 × 110 × 109.4 mm, 10.8 × 4.5 × 4.8 in	
	Weight (approximate)	1.51 kg, 3.3 lb	730 g, 1.6 lb	RF Unit: 890 g, 2.0 lb HM-195: 400 g, 14.1 oz	RF Unit: 870 g, 1.9 lb HM-195: 400 g, 14.1 oz	1.2 kg, 2.6 lb	730 g, 1.6 lb	700 g, 1.5 lb	1.6 kg, 3.5 lb	
	Current drain (approximate)	TX	6 A	5 A	5.5 A Max.	5.5 A Max.	5.5 A	5 A	5 A	3.3 A*4
		RX (Max. Audio)	5 A typ. (Ext SP, RX hailer ON) 8 A Max. (Ext SP, HM-195 × 3)	1.6 A (IC-M510 EVO) 7.3 A Max. (With Ext SP, RX hailer, HM-195)	1.5 A (With HM-195 × 1) 4.0 A (RX hailer, HM-195 × 2) 4.5 A (RX hailer, HM-195 × 3)	1.5 A (HM-195 × 1) 4.0 A (RX hailer, HM-195 × 2)	5 A typ. (Ext SP, RX SP ON) 1.5 A (Internal SP)	1 A	1.2 A	2.0 A*4
	Sensitivity (at 12 dB SINAD)	0.22 µV typical	0.32 µV typical	0.22 µV typical	0.22 µV typical	0.22 µV typical	0.22 µV typical	0.22 µV typical	0.22 µV typical	-7 dBµ emf typ. (20 dB SINAD)
	Intermodulation rejection	80 dB	75 dB	70 dB	70 dB	70 dB	70 dB	70 dB	63 dB	75 dB
	Audio output power (10% distortion, 4 Ω load)	(Internal SP)	—	—	2W (HM-195)	2W (HM-195)	—	—	—	—
		(External SP)	15 W	15 W	10 W	10 W	10 W typical	4.5 W typical	4.5 W typical	10 W
	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	25 W or 1 W	25 W or 1 W
	Submersible protection	IPX8 (1 m depth for 60 min.)	IP68 (1 m depth for 60 min.)	IPX7 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX7 (1 m depth for 30 min.)	IPX7*5 (1 m depth for 30 min.)

Measurements made in accordance with TIA/EIA 603 for IC-M605, M510 EVO, M424G, M510BB, M410BB, M330G, M330, M220 and EN301 925 for GM600.


*1 Depending on the version *2 External GNSS antenna required for the USA versions. *3 Only for the AIS version. *4 With PS-310 (#11) *5 Only for front panel.

Specifications for MF/HF Fixed Mount Transceivers


		IC-M803	IC-M710	IC-M700PRO	GM800
					
Frequency range (Unit: MHz)		TX: 1.6–27.5000 RX: 0.5–29.9999 DSC : 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045	TX: 1.6–27.5000 (ITU channels) RX: 0.5–29.9999	TX: 1.6–27.5000 (ITU channels) RX: 0.5–29.9999	TX: 1.6–27.5000 (ITU channels) RX: 0.5–29.9999 (continuously) DSC: 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045
Type of emission	TX/RX	J3E (USB, LSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E*1 (AM)	J3E (USB/LSB), H3E (AM), J2B (AFSK), F1B (FSK), R3E, A1A (CW)*2	J3E (USB/LSB), H3E (AM), J2B (AFSK), F1B (FSK), R3E, A1A (CW)*2	J3E (USB/LSB*1), H3E*1 (AM), J2B*1 (AFSK), F1B (FSK), A1A*1 (CW)
	DSC	J2B	–	–	J2B
Power supply requirement		13.6 V DC ±15%	13.6 V DC ±15%	13.6 V DC ±15%	21.6–31.2 V DC (floating ground)
Dimensions (W×H×D; projections not included)	Main unit	240 × 94 × 238 mm, 9.4 × 3.7 × 9.4 in	291.4 × 116.4 × 315 mm; 11.5 × 4.6 × 12.4 in	291.4 × 116.4 × 315 mm; 11.5 × 4.6 × 12.4 in	367 × 95 × 260 mm; 14.4 × 3.7 × 10.2 in
	Controller	274 × 114 × 86 mm, 10.8 × 4.5 × 3.4 in	–	–	274 × 114 × 86 mm; 10.8 × 4.5 × 3.4 in
Weight (approximate)	Main unit	4.41 kg, 10.4 lb	7.8 kg; 17.2 lb	7.8 kg; 17.2 lb	8.6 kg; 19.0 lb
	Controller	760 g, 1.7 lb	–	–	760 g; 1.7 lb
Current drain	Transmit (Max. power)	30 A	30 A	30 A	Less than 20 A (at 1.1 and 1.7kHz two tones)
	Receive (Max. audio)	Less than 3.0 A	2.5 A	2.5 A	Less than 3.0 A
Sensitivity	J3E, A1A	30 dBμV emf*3, 16 dBμV (0.5–1.5999 MHz) 13 dBμV emf*3, –1 dBμV*5 (1.6–1.7999 MHz) 8 dBμV emf*3, –6 dBμV*5 (1.8–29.9999 MHz)	16 dBμ (0.5–1.5999 MHz)*6 0 dBμ (1.6–1.7999 MHz)*6 –6 dBμ (1.8–29.9999 MHz)*6	16 dBμ (0.5–1.5999 MHz)*6 0 dBμ (1.6–1.7999 MHz)*6 –9 dBμ typical (1.8–29.9999 MHz)*6	30 dBμV emf (0.5–1.5999 MHz)*3 16 dBμV emf (1.6–3.9999 MHz)*3 11 dBμV emf (4.0–29.9999 MHz)*3
	J2B, F1B	4 dBμV emf*3, –10 dBμV*5 (1.6–1.7999 MHz) –1 dBμV emf*3, –15 dBμV*5 (1.8–29.9999 MHz)	–	–	3 dBμV emf (1.6–2.099 MHz)*4 0 dBμV emf (2.1–27.5 MHz)*4
	J2B, R3E	–	16 dBμ (0.5–1.5999 MHz)*6 0 dBμ (1.6–1.7999 MHz)*6 –6 dBμ (1.8–29.9999 MHz)*6	16 dBμ (0.5–1.5999 MHz)*6 0 dBμ (1.6–1.7999 MHz)*6 –9 dBμ typical (1.8–29.9999 MHz)*6	–
	H3E	44 dBμV emf*3, 30 dBμV*5 (0.5–1.5999 MHz) 30 dBμV emf*3, 16 dBμV*5 (1.6–1.7999 MHz) 24 dBμV emf*3, 10 dBμV*5 (1.8–3.9999 MHz)	30 dBμ (0.5–1.5999 MHz)*5 16 dBμ (1.6–1.7999 MHz)*5 10 dBμ (1.8–29.9999 MHz)*5	30 dBμ (0.5–1.5999 MHz)*5 16 dBμ (1.6–1.7999 MHz)*5 7 dBμ typical (1.8–29.9999 MHz)*5	44 dBμV emf (0.5–1.5999 MHz)*3 30 dBμV emf (1.6–3.999 MHz)*3
	DSC (J2B)	–6 dBμV emf*4	–	–	0 dBμV emf*4
RF output power		150, 100, 60, 20 W PEP (selectable)	150/60/20 W PEP (1.6–23.999 MHz) 60/20 W PEP (24.0–27.500 MHz)	150/60/20 W PEP (1.6–23.999 MHz) 60/20 W PEP (24.0–27.500 MHz)	150 W PEP into 50 Ω (at radio terminal) 85 W PEP (1.6–3.999 MHz) (at tuner-output) 125 W PEP (4.0–27.5 MHz) (at tuner-output)

*1 Receive only. *2 Available modes may differ depending on version. *3 20 dB SINAD *4 1% error rate *5 10 dB S/N *6 12 dB SINAD

HANDHELD TRANSCEIVER


		IC-SAT100
		
Dimensions (W × H × D; projections are not included)		57.8 × 135 × 32.8 mm, 2.3 × 5.3 × 1.3 in
Weight (approximate)		360g, 12.7 oz (with BP-300 and antenna)
Operational temperature range		–30°C to +60°C, –22 °F to 140 °F
Audio output power (5% dist.)	Internal speaker	1500 mW typical (8 Ω load)
	External speaker	1000 mW typical (8 Ω load)
Battery life (approximate)		14.5 hours (TX : RX : standby = 5 : 5 : 90)
Submersible protection		IP67
Talkgroup		15 groups (Maximum)
Antenna connector		SMA

MOBILE TRANSCEIVER

		IC-SAT100M
		
Dimensions (W × H × D; projections are not included)	Antenna	76.8 × 200 × 76.8 mm, 3 × 7.9 × 3 in
	Main Unit	125 × 29 × 156.5 mm, 4.9 × 1.1 × 6.2 in
	Microphone	59.5 × 134.6 × 30.1 mm, 2.3 × 5.3 × 1.2 in
Weight (approximate)		1.2 kg, 2.6 lb (Main unit with microphone)
Operational temperature range		–30°C to +60°C, –22 °F to 140 °F
Audio output power (5% dist.)	Internal speaker	1500 mW typical (8 Ω load)
	External speaker	4 W typical (4 Ω load)
Power supply voltage		13.2 V / 26.4 V DC
Submersible protection		IP67 (Antenna), IP55 (Mic), IP54 (Main unit)
Talkgroup		15 groups (Maximum)
Antenna connector		SMA
Power over Ethernet (PoE) Capability		IEEE802.3at compatible Powered Device: Max 25 W Power Source Equipment: 30 W

Specifications for AIS Transponder


AIS TRANSPONDER

		MA-510TR
		
Frequency range (Unit: MHz)	161.500–162.025 (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)	
Dimensions (W × H × D; Projections not included)	166.2 × 110.2 × 92.5 mm, 6.5 × 4.3 × 3.6 in	
Weight (approximate)	700 g, 1.5 lb	
Current drain	Transmit	1.5 A
	Receive	0.7 A
Sensitivity	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.

Specifications for Marine Radars

DISPLAY UNIT

	MR-1220				MR-1010RII
	MR-1220R4	MR-1220T4	MR-1220T6	MR-1220T6L	
					
Display	12.1-inch color TFT LCD				10.4-inch color TFT LCD
Resolution (H × V)	600 × 800 dots				480 × 640 dots
Minimum range	25 m; 82 ft (at 1/8 NM range)				25 m; 82 ft (at 1/8 NM range)
Maximum range	36 NM	48 NM	72 NM	72 NM	36 NM
Power supply requirement	12/24 V DC				12/24 V DC
Dimensions (W × H × D; projections not included)	301 × 323.5 × 119.2 mm; 11.9 × 12.7 × 4.7 in				301 × 323.5 × 119.2 mm; 11.8 × 12.7 × 4.7 in
Weight (approx.)	4.8 kg; 10.6 lb				4.3 kg; 9.5 lb
Usable temperature range	–15 °C to +55 °C; +5 °F to +131 °F				–15 °C to +55 °C; +5 °F to +131 °F
Power consumption (approx.)	60 W	70 W	80 W	90 W	55 W
Available scanner unit	2 ft (60 cm) radome	4 ft (120 cm) open array	4 ft (120 cm) open array	6.5 ft (200 cm) open array	2 ft (60 cm) radome

SCANNER UNIT

	SC-R40 (MR-1220R4)	SC-T40 (MR-1220T4)	SC-T60 (MR-1220T6)	SC-T60L (MR-1220T6L)	MR-1010RII
					
Type	2 ft (60cm) radome	4 ft (120 cm) open array	4 ft (120 cm) open array	6.5 ft (200 cm) open array	2 ft (60 cm) radome
Peak output power	4 kW	4 kW	6 kW		4 kW
Rotation speed	24, 36 rpm typical	24, 36 rpm typical	22, 24, 36 rpm typical		24, 36 rpm typical
Beamwidth	4° typical		2° typical		4° typical
	22° typical		23° typical		22° typical
Sidelobe	–22 dB typical		–24 dB typical		–22 dB typical
Transmission frequency	9410 MHz ±30 MHz	9410 MHz ±30 MHz	9410 MHz ±30 MHz		9410 MHz ±30 MHz
Dimensions (W × H × D; projections not included)	640 × 256 × 640 mm; 25.2 × 10.1 × 25.2 in	1217 (dia.) × 395 (H) mm; 47.9 (dia.) × 15.6 (H) in	1217 (dia.) × 395 (H) mm; 47.9 (dia.) × 15.6 (H) in	1995 (dia.) × 395 (H) mm; 78.5 (dia.) × 15.6 (H) in	640 × 256 × 640 mm; 25.2 × 10.1 × 25.2 in
Weight (approx.)	8 kg; 17.6 lb	18 kg; 39.7 lb	18 kg; 39.7 lb	20 kg; 44.1 lb	8 kg; 17.5 lb
Usable temperature range	–25 °C to +70 °C; –13 °F to +158 °F		–25 °C to +70 °C; –13 °F to +158 °F		–25 °C to +70 °C; –13 °F to +158 °F
Connection cable	15 m; 49.2 ft (OPC-2341)	20 m; 65.6 ft (OPC-2342)	20 m; 65.6 ft (OPC-2342)		15 m; 49.2 ft (OPC-2341)

Experience in Video

Scan the QR code to view Icom product videos.

<https://www.youtube.com/c/IcomIncorporated/videos>



IC-M510 promotion video



IC-M94D promotion video



Function movie example (Float'n Flash™ function)

All stated specifications are subject to change without notice or obligation.

Read all instructions enclosed with the product carefully and completely before using the product.

Icom and Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. FLOAT'N FLASH, SUBMERSIBLE PLUS, COMMANDMIC, COMMAND HEAD, AQUAQUAKE, SIMULTANEOUS TALKLISTEN, and IDAS are trademarks of Icom Incorporated (Japan). NMEA logo, NMEA 2000 and NMEA 0183 are trademarks of the National Maritime Electronics Association, Inc. Windows is a trademark of the Microsoft group of companies. Iridium and the Iridium connected logo are trademarks and registered trademarks of Iridium Satellite LLC. The Bluetooth word mark and logos are registered trademark owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. Android and Google Play are registered trademarks or trademarks of Google LLC. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. App Store is a service mark of Apple Inc. QR Code is a trademark of DENSO WAVE INCORPORATED. All other trademarks are the properties of their respective holders.

Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icomjapan.com

Icom America Inc.
www.icomamerica.com

Icom (Europe) GmbH
www.icomeurope.com

Icom (Australia) Pty. Ltd.
www.icom.net.au

Your local distributor/dealer:

Icom Canada
www.icomcanada.com

Icom Spain S.L.
www.icomspain.com

Icom Asia Co., Ltd.
www.icomasia.com

Icom Brazil
E-mail: sales@icombrasil.com

Icom (UK) Ltd.
www.icomuk.co.uk

Icom France s.a.s.
www.icom-france.com