

## **Marine Products**

European Edition





## VHF Handheld Transceivers



AIS screen



DISTRESS button



AIS Traffic Info, Now in Your Hand

VHF MARINE TRANSCEIVER WITH DSC & AIS

### **FEATURES**

- Built-in AIS and DSC combination adds further assurance for safety at sea
- 6 W RF output power
- 1500 mW powerful audio output
- Icom common UI offers intuitive operation
- Simplified navigation function and MOB
- 10 hours (approx.) of long operating time
- Float'n Flash™ function
- Active noise canceling technology IPX7 waterproof
   Integrated GNSS 50 waypoint memories Dualwatch and Tri-watch functions Favorite channel function AquaQuake™ prevents audio degradation from a water-logged speaker Supports 4-digit channels
- \* Available functions may be subject to local regulations

### **Supplied Accessories**

- BP-306 battery pack 
   BC-251 battery charger
- AC adapter\* MB-133 belt clip
- FA-SC59V antenna Hand strap
- \* May differ depending on the transceiver version.



Slim, Stylish, Powerful VHF with Professional Features

**VHF MARINE TRANSCEIVERS** 

### IC-M73EURO PLUS IC-M73EURO

### **FEATURES**

- Last call voice recording\*
- Active noise cancelling technology\*
- Bass Boost Function\*
- IPX8 advanced waterproofing
- 6 W RF output, 700 mW loud audio
- 17 hours of long lasting operating time with BP-245H
- \* available in IC-M73EURO PLUS version only.
- Dual watch and Tri-watch functions Instant access to Ch 16 and call channel AquaQuake™ Auto power save Priority and normal scan Tag scan and favorite channel function Optional speaker-microphones, HM-167/HM-202 Supports 4-digit channels Available functions may be subject to local regulations.

### **Supplied Accessories**

- BP-245H battery pack BC-210 battery charger
- BC-123SE\* AC adapter MB-103 belt clip
- FA-S64V\* antenna CP-25H\* cigarette lighter cable
- Hand strap
- $^{\star}$  May differ or not supplied, depending on the transceiver version.



Buoyant 6 Watt VHF with up to 12 Hours of Operation

VHF MARINE TRANSCEIVER

### IIC-M37E

### **FEATURES**

- Large keys and easy-to-grip design
- 6 W RF output power
- 700 mW audio output
- More than 12 hours of long-lasting operating time with BP-296
- Channel history function stores the last five channels
- Float'n Flash™ function
- IP57 dust-protection and waterproof protection Low Battery Alert function Voice Loud and Mute function Dualwatch and Tri-watch functions Instant access to Ch 16 and call channel AquaQuake<sup>™</sup> Favorite channel function Optional speaker-microphone, HM-213 Supports 4-digit channels
- \* Available functions may be subject to local regulations.

### Supplied Accessories

- BP-296 battery pack BC-235 desktop charger
- BC-217SE\* AC adapter MB-133 belt clip
- FA-SC59V antenna Hand strap
- \* May differ or not supplied, depending on the transceiver version.

## VHF Handheld Transceivers



### Slim, Lightweight with **High Performance**

### **VHF MARINE TRANSCEIVER** IC-M25EURO

### **FEATURES**

- Slim, lightweight with high performance
- Large LCD and intuitive user interface
- USB charging (Micro-B USB type)
- Float'n Flash™ function
- 11 hours of long operating time
- 5 W RF output, 700 mW clear audio
- IPX7 waterproof protection
- Dual watch and Tri-watch function Instant access to Ch 16 and call channel • Favorite channel function • Auto scan function\* • AquaQuake™ • 2-step power save • Built-in 3 hours rapid charger • Optional speaker-microphone, HM-213 • Supports 4-digit channels
- \* Available functions may be subject to local regulations.

### Supplied Accessories

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



### **Compact Marine VHF** with 100 PMR Channels

### **VHF MARINE TRANSCEIVER** IC-M85E

- Compact and lightweight
- 100 programmable PMR channels\* Appropriate licence is required.
- Automated emergency alarm with Man Down, Lone Worker and MOB Alarm functions
- 700 mW loud audio
- IP67 dust-tight and waterproof
- Built-in voice scrambler compatible with UT-112/A (Legal use depends on country) • Built-in CTCSS and DTCS tones • Dual watch and Tri-watch functions • Instant access to Ch 16 and call channel • AquaQuake™ • Tag scan and favorite channel function • 21 hours of long battery life (TX:RX:Standby=5:5:90.) • Self check function
- MIL-STD rugged construction Internal VOX capability for hands-free operation • Variety of audio accessories
- Supports 4-digit channels
- \* Available functions may be subject to local regulations.

- BP-294 battery pack BC-227 rapid charger BC-123SE\* AC adapter
- MBB-3 belt clip FA-SC58V antenna Hand strap
- \* May differ or not supplied, depending on the transceiver version.





## Class-D DSC VHF Marine Transceiver with Smartphone App Control







WPT NAV MOE

Navigation screen



Night mode screen

### **FEATURES**

- Up to 3 smart devices\*1 can be connected as wireless microphones with some simple function control available
- CT-M500 optional external interface box for NMEA 2000™ connectivity and Two-way Hailer/PA function 53.6 mm (approx.)
- Wide viewing angle colour TFT LCD
- Integrated AIS receiver and AIS plotter\*2 (AIS data can be input/output through NMEA 2000™ or NMEA 0183-HS.)
- Sleek, slim design, least depth ever for least mounting effort (rear panel depth reduced nearly 50% vs IC-M506GE)
  - \*1 Optional RS-M500 (for Android™/iOS™) app needs to be downloaded. DSC operation is not available with the RS-M500 app.
  - \*2 AIS receiver is not included depending on the transceiver version.



Slim depth

- Simplified Navigation function to a specified waypoint or AIS target • Active Noise Cancelling technology • Voice scrambler with optional UT-112A
- Integrated GNSS receiver (Automatically select internal antenna or UX-241 external antenna)
- · Class leading 15 W (typical) audio output (External speaker) • NMEA 0183-HS (High Speed) Version 1.01 connectivity (38.4 kbps) • IP68 dust-tight and waterproofing (1 m depth water for 60 minutes) • Fog horn (CT-M500 required) • Dualwatch and Tri-watch functions • Instant access to Ch 16 and Call channel • Tag scan and favorite channel functions • AquaQuake™ prevents audio degradation

### SYSTEM OVERVIEW



Wireless LAN Mau





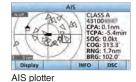


## Premium Class D DSC VHF Radio with System Flexibility

**VHF MARINE TRANSCEIVER** 

## **-M605EURO**









AIS target list



### **FEATURES**

- Wide viewing angle, high contrast 4.3 inch colour TFT LCD
- Remote control with up to three COMMAND HEAD™/COMMANDMIC™
- Integrated AIS receiver (AIS RX data can be output through NMEA 0183-HS)
- Intuitive user interface
- Class leading receiver performance (Selectivity and IMD: 80 dB typ.)
- 15 W loud audio and 30 W two-way hailer
- Built-in Class D DSC
- NMEA 2000™ and NMEA 0183-HS connectivity Active Noise Cancelling Last call voice recording
- Optional Voice Scrambler, UT-112/A Built-in GNSS receiver (GNSS antenna supplied)
- NMEA 0183-HS (High Speed) Version 1.01 connectivity (38.4 kbps) IPX8 advanced waterproof (1m depth water for 60 minutes) • Fog horn • Dual watch and Tri-watch functions • Instant access to Ch 16 and Call channel
- Tag scan and favorite channel functions AquaQuake™ prevents audio degradation from a water-logged speaker







Up to three HM-229, COMMANDMIC™ and/or RC-M600, COMMAND HEAD™ capable.

## Easy-to-Use and Even Easier to Hear!

VHF MARINE TRANSCEIVER

### -M423GE



COMMANDMIC™ HM-195 series capable



### **FEATURES**

- Intuitive user interface and white backlight display
- 10 W loud audio, public address and foghorn
- Optional HM-195GB/GW COMMANDMIC™
- Built-in Class D DSC

• IPX7 waterproof • Active Noise Cancelling • Built-in GNSS receiver (GNSS antenna supplied) • RX speaker function • Black or super white colour version • Speaker-microphone, HM-205B/SW • Supports 4-digit channels

Up to Three COMMANDMIC™ Capable, Black Box Transceiver

**VHF MARINE TRANSCEIVER** 







### **FEATURES**

- Full remote control with up to three COMMANDMIC™ (One COMMANDMIC™ is supplied with the IC-M510BB)
- COMMANDMIC™ can be installed up to 18.3 m, 60 ft away from the RF unit
- "Distress" button on the back of the COMMANDMIC™ (Class D DSC built-in)

Installation example



- DSC remote interface to control from other device or PC (EN 300 338-8 compatible)
- Integrated AIS receiver (AIS plotter screen and target list are displayed on the COMMANDMIC™)
- NMEA 0183-HS and NMEA 2000™ networking capability
- 15 W Loud Hailer/Fog Horn



• Active Noise Cancelling • Up to two minutes last call voice recording • Built-in GNSS receiver (GNSS antenna supplied) IPX7 waterproof protection for COMMANDMIC™ and RF unit (1 m depth water for 30 minutes) • 10 W amplifier for external horn speaker connection • Dual watch and Tri-watch functions • Instant access to Ch 16 and Call channel • Tag scan and favorite channel functions • AquaQuake™ prevents audio degradation from a water-logged COMMANDMIC's speaker • Display and keypad backlighting • Supports 4-digit channels • Compatible with the MA-510TR AIS transponder

## Black Box Transceiver When Space is at a Premium

**VHF MARINE TRANSCEIVER** 

## IC-M400BBE

- Space saving, fully functional VHF/DSC
- Built-in Class D DSC
- Controlled by COMMANDMIC™ HM-195B/SW/GB/GW\*
- 10 W loud audio, public address and foghorn
- IPX7 waterproof Intuitive user interface
- · Active Noise Cancelling
- Built-in GNSS receiver (GNSS antenna supplied)
- \* HM-195B/SW/GB/GW may be sold separately, depending on version.



Top Performance Ultra Compact VHF

VHF MARINE TRANSCEIVER

IC-M330GE



Photo shows IC-M330GE black version.

Photo shows IC-M330GE white version. (Available depending on country)

### **FEATURES**

- Ultra compact body (W×H×D;  $156.5 \times 66.5 \times 88.2$  mm)
- Built-in Class D DSC
   Uncompromised receiver performance
- Dynamic clear audio from bass to treble
- Easy-to-read full dot-matrix display
- IPX7 waterproof Intuitive user interface Active Noise Cancelling
- Built-in GNSS receiver (GNSS antenna supplied) (IC-M330GE only\*)
- Supports 4-digit channels
- \* IC-M330E (without GNSS receiver) also available depending on the country.



Size comparison between the IC-M330GE and IC-M423GE





Standby History Select

DSC Scan screen



- Built-in ITU Class E DSC and Distress button for an emergency
- Dedicated DSC watch-keeping receiver
   Wide viewing angle, high contrast 4.3-inch colour TFT LCD
- Intuitive user interface
   NMEA 2000™ and NMEA 0183-HS connectivity
- Integrated GNSS receiver, and supplied GNSS antenna with 5 m cable
   Two minutes Instant Replay Memory
- Matching design with the IC-M605EURO VHF marine transceiver
- 125 W (4.0 27.5 MHz, PEP) of RF output at AT-141 tuner output Optional AT-141 automatic antenna tuner IPX7 waterproof remote controller and corrosion resistant main unit 0.5 29.999 MHz continuous receiver coverage Channel scan, Channel Resume scan and Program scan Advanced RF direct sampling system
- Display and keypad backlighting •12 or 24 V DC power source (depending on version) Programmable microphone button

Simplified ARPA, AIS Target Plotting and DSC Information Display

COLOUR TFT MARINE RADAR

MR-1010RII



2 ft Radome Scanner

### **FEATURES**

- 10.4-inch colour TFT display (480 × 640 dots)
- 36 NM range, 4 kW radome scanner
- Intuitive user interface
- Multi-language interface
   (Arabic, English, French, Italian, Portuguese, Spanish and Turkish)
- 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
- \*1 External bearing, speed, position, waypoint, variation, AIS and DSC data is (are) required, when you use these functions.





## Class B AIS Transponder

# Risk Management and Simplified Navigation in One Package



- Navigation function guides you to the specified waypoints or AIS targets
- Wide viewing angle and high-luminance 4.3-inch colour IPS TFT display
- NMEA 2000™, NMEA 0183-HS connectivity
- 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
- GNSS antenna supplied
  - \*1 A third party application and a connection cable are required.
  - \*2 A compatible Icom VHF radio (IC-M605EURO, IC-M510E, IC-M423GE, IC-M400BBE or IC-M330GE) is required.



## Wireless LAN Transceiver System

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

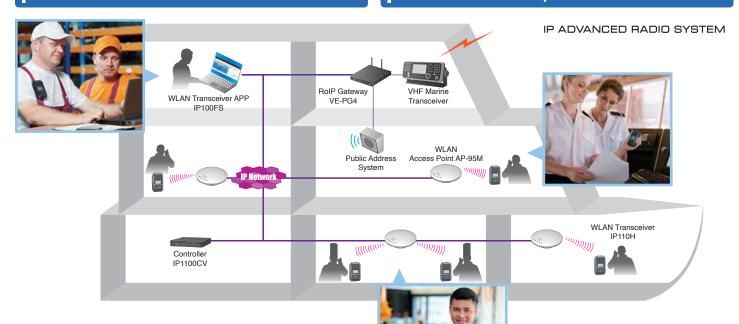
### **System Features**

Wireless Communication System for Ships Crew

Simultaneous TalkListen™ Function



Interconnect 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 body and 146 g (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 APP IP100FS

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

- The IP100FS can communicate with WLAN transceivers from a PC
- The IP100FS can obtain location information of each IP110H based on connection to access points
- Can be installed on a Windows<sup>™</sup> based tablet PC as well as laptop PC

## WLAN TRANSCEIVER CONTROLLER IP1100CV

- The IP1100CV controls all terminal configurations and voice traffic
- · Capable of controlling up to 300 terminals (including IP100FS)





- IEEE 802.11 a/b/g/n/ac compliant
- PoE (Power over Ethernet) capability
- Optional RS-AP3, access point management software



- Versatile radio over IP gateway linking land mobile radios, WLAN transceivers, IP phone systems and external devices
- WLAN transceiver controller (Equivalent to the IP1100CV function) built-in, capable of controlling up to 50 WLAN transceivers
- IDAS™ Conventional and NXDN™
   Type-D multi-site trunking connection







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 Colour TFT LCD

VHF MARINE TRANSCEIVER





MF/HF MARINE TRANSCEIVER

**GM800** 



### **FEATURES**

- Meets the GMDSS VHF and MF/HF radio requirements for SOLAS ships
- ITU Class A DSC Dedicated DSC watch receiver
- Large and high contrast 4.3-inch colour TFT LCD
- Intuitive user interface for straightforward operation
- 10 W audio output power with external speaker (for GM600)
- Optional automatic antenna tuner, AT-141 (for GM800)
- Currently in compliance testing to latest MED certification\*1 (as of September 2022)
  - \*1 Ask your Dealer for the latest details regarding installation requirements in your country.

- Remote Distress alarm Printer connector (Centronics IEEE1284)
- IEC 61162-1 interface for GNSS receiver Output power: 150 W\*2 PEP into 50 Ω (at radio terminal, GM800) Built-in 24 V DC-DC converter (GM800)
- Optional handset, HS-98 (#16, for GM600)
   Supplied handset, HS-98 (#17, for GM800)
   IPX7 waterproof for front panel (GM600), for controller (GM800)
   Supports 4-digit channels

\*2 125 W (4.0–27.5 MHz) (at tuner-output) 85 W (1.6–3.999 MHz) (at tuner-output) Please Note: PS-310 MUST BE USED with GM600 for MED requirements. The complete GMDSS installation for MF/HF DSC (Class A) and telephony additionally requires the optional antenna tuner, AT-141.



# Intrinsically Safe Radio



**GMDSS** Portable for **Survival Craft** 

**SURVIVAL CRAFT 2-WAY RADIO** IC-GM1600E

### FEATURES

- 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 access to Ch 16 and call channel
- Auto power save 4-step battery indicator

### **Included Accessories** • BP-252 battery pack • BC-173 battery charger

- BC-147SE AC adapter MB-103Y belt clip
- FA-S61V antenna (Fixed type) Neck strap

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



**ATEX Intrinsically Safe** PMR Channels

VHFTRANSCEIVER

IC-F51 ATEX (1W)

UHF TRANSCEIVER

IC-F61 ATEX (1 W)

### FEATURES

ATEX Certifications

Gas: II 2G Ex ib IIA T3 Gb (Tamb=-20°C to +55°C)

- IP67 dust-tight and waterproof protection
- Built-in 2-Tone, 5-Tone, CTCSS and DTCS
- Lone Worker function BIIS 1200 capability MDC 1200 compatibility • Eight DTMF autodial memories
- Compact body; 56 (W)  $\times$  97 (H)  $\times$  36.4 (D) mm
- Optional speaker-microphone, HM-138 136-174 and 400-470 MHz 1 W

### **Supplied Accessories**

• BP-227AX, battery pack • MB-98, belt clip • Antenna



**ATEX Intrinsically Safe** Marine Radio

**VHF MARINE TRANSCEIVER** 

IC-M87ATEX (1W)

### FEATURES

ATEX Certifications

Gas: II 2G Ex ib IIA T3 Gb (Tamb=-20°C to +55°C)

- Tough and compact body
- Marine and land channel groups
- 22 programmable land channels
- Built-in voice scrambler\*
- IPX7 waterproof protection Dual watch and Triwatch functions • Instant access to Ch. 16 and call channel • Auto power save • Auto scan function
- Tag scan function Optional speaker-microphone, HM-138 • Supports 4-digit channels
- \* May differ depending on the transceiver version.

### **Supplied Accessories**

- BP-227AX battery pack BC-152N battery charger
- BC-147SE\* AC adapter MB-86 belt clip

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 13-14). Please ask your dealer to ensure the ATEX ratings are acceptable for the intended place of use.

# Satellite PTT Radios



### What is Satellite PTT?

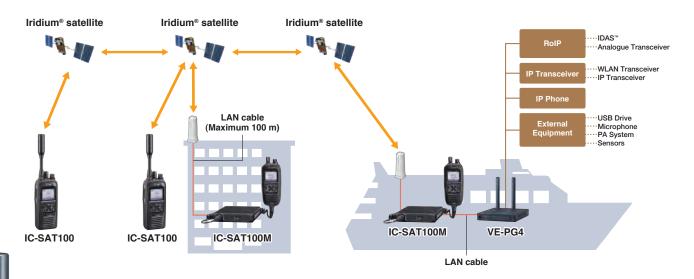
SATELLITE PTT (Push-To-Talk) is a two-way radio system that uses the Iridium® satellite network. It can be used as a communication tool in remote, isolated areas and at sea where there are no mobile phones or communications infrastructure. Even if the terrestrial network infrastructure is rendered unusable 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



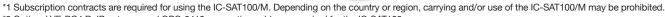


- · Emergency key on the top panel
- · IP67 dust-tight and waterproof protection
- 1500 mW of powerful audio
- 14.5 hours of long lasting battery life\*3
- · Short Data Message
- Voice Recording function
- · Built-in Bluetooth® capability\*4
- · SMA type antenna connection
- · USB charging
- · AES 256-bit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

## IC-SAT100M

- · Emergency key on the top panel
- Satellite communication in-vehicle and in-building
- · LAN cable (maximum 100 m) 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 from speaker-microphone (External SP can be connected)
- · Short Data Message
- Voice Recording function
   Built-in Bluetooth® capability\*4
- · AES 256-bit encryption for security





<sup>\*2</sup> 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<sup>®</sup> 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 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** 

Maximun 169 m\* coaxial cable for installing in a clear location to obtain a line-of-sight path to the satellite.

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





HEADSET Bluetooth® headset



MULTI-CHARGER **BC-214N**\*

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.



**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.



COAXIAL CABLE OPC-2462

Coaxial cable (5D-HFA) for the AH-41.

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) 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 cable

SP-35L: 6 m cable



**HEADSET** VS-3 Bluetooth® headset



AC ADAPTER **BC-157S** 12 V/7.5 A output for



AH-40 for in-vehicle use.





### IC-SAT100/M Short Data Message Applications for Android™/iOS™ 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 Android™/iOS™ device.

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



COAXIAL CABLE OPC-2422 Extension cable between the AH-40 and

the radio. 5 m

## Optional Accessories for Handheld Transceivers

	BATTER	Y CASES		BATTERY PACKS							
MODEL NAME	BP-291 LR6 (AA)×5 cells	BP-297*1 LR03 (AAA)×3 cells	BP-227AX (Li-ion) For intrinsically safe radios 7.4 V/1850 mAh (min.) 1950 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 m/Ah (typ.)	BP-296 (Li-ion) 3.6 V/2200 mAh (min.) 2350 mAh (typ.)		BP-234 (Lithium) 9.0 V/3300 mAh (non-rechargeable)		
IC-M94DE				V							
IC-M73EURO					V						
IC-M37E		V					V				
IC-M25EURO*2											
IC-M85E	V							V			
IC-F51 ATEX IC-F61 ATEX			~								
IC-M87 ATEX			~								
IC-GM1600E						(On-board use only)			(For survival craft)		

<sup>\*1</sup> 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. \*2 As the Lithium-ion battery pack (3.7 V 1500 mAh) is built-in to the IC-M25EURO, the user cannot change the battery pack.

				DES	KTOP CHARG	BERS			
MODEL NAME	BC-251	BC-210*7	BC-235	BC-173	BC-219N*7	BC-225*7	BC-226*4	BC-227*7	BC-152N*3
	Rapid charger	Rapid charger	Desktop charger	Regular charger	Rapid charger	Intelligent rapid	Connectable type.	Rapid charger	Regular charger
						charger	Connects up to six BC-226 units.		
IC-M94DE	V								
IC-M73EURO		V							
IC-M37E			V						
IC-M25EURO									
IC-M85E					~	V	~	~	
IC-F51 ATEX IC-F61 ATEX									~
IC-M87 ATEX									V
IC-GM1600E				(for BP-252)					

<sup>-3</sup> The battery charger must not be used in an explosive atmosphere. \*4 An AC adapter should be purchased separately. BC-123S (straight plug version) for single unit or BC-228 for multiple connections.

	MU	JLTI-CHARGE	RS		4	AC ADAPTERS	3	
MODEL NAME	BC-214N*5 *7 Rapid charger	BC-238*6 Rapid charger	BC-121N*3 Rapid charger	BC-123SE/SUK 12 V/1 A, Straight plug	BC-123SE/SUK 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-M73EURO					(Use with BC-210)			
IC-M37E		(AD-138 installed)						
IC-M25EURO								
IC-M85E	(Use #63, AD-132N installed)			(Use with BC-226)	✓ (Use with BC-219N, BC-225 or BC-227)		(Use with BC-214N)	(Use with BC-226)
IC-F51 ATEX IC-F61 ATEX			(Use with AD-100)			(Use with BC-152N)	(Use with BC-121N)	
IC-M87 ATEX			(Use with AD-100)			(Use with BC-152N)	(Use with BC-121N)	
IC-GM1600E						(Use with BC-173, On-board use only)		

	USB CH	IARGER	USB CABLE	CHARGER ADAPTERS	CIGARETTE LIC	GHTER CABLES	DC POWE	R CABLES	READER SOFTWARE
MODEL NAME	BC-217SE	BC-258E/V	OPC-2394	AD-100	CP-25H	CP-23L	OPC-515L	OPC-656	RS-BC225
	5 V/1 A	5 V/2 A	(8)		(8)	EP?	P	8	
IC-M94DE					(Use with BC-251)				
IC-M73EURO					(Use with BC-210)		(Use with BC-210)		
IC-M37E	(Use with BC-235)								
IC-M25EURO	~	(Use with OPC-2394)	~						
IC-M85E						✓(Use with BC-219N, BC-225 or BC-227)	✓ (Use with BC-219N, BC-225 or BC-227)	(Use with BC-214N)	(Use with BC-225)
IC-F51 ATEX IC-F61 ATEX				(Use with BC-121N)		,			
IC-M87 ATEX				(Use with BC-121N)					
IC-GM1600E									

## Optional Accessories for Handheld Transceivers

				SPEAKER-M	ICROPHONES				TIE-CLIP MICROPHONE
MODEL NAME	HM-228	HM-165	HM-202	HM-167	HM-213	HM-222	HM-236	HM-138	HM-163MC
	Waterproof								
								8	6
IC-M94DE	V	V							
IC-M73EURO			~	~					
IC-M37E					V				
IC-M25EURO					~				
IC-M85E						~	~		V
IC-F51 ATEX IC-F61 ATEX								~	
IC-M87 ATEX								V	
IC-GM1600E									

		HEADSETS		PTT SWITCH CABLE			<b>EARPHONES</b>		
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		3.5 mm plug	SP-40 3.5 mm plug
IC-M94DE									
IC-M73EURO									
IC-M37E									
IC-M25EURO									
IC-M85E	(Use with VS-5MC)	(Use with VS-5MC)	(Use with VS-5MC)	V	(Use with HM-163MC)	<b>✓</b> *1	(Use with HM-163MC)	(Use with HM-222 or AD-135)	(Use with HM-222 or AD-135)
IC-F51 ATEX IC-F61 ATEX									
IC-M87 ATEX									
IC-GM1600E									

<sup>\*1</sup> SP-26:for use with HM-163MC. SP-27:for use with HM-222 or AD-135.

	ACC AD	APTERS	BELT	CLIPS	Е	BELT HANGER	S
	AD-118 6-Pin Hirose plug adapter	AD-135 3.5 mm jack earphone adapter	MB-86 MB-136 Swivel type Photo shows MB-86	MB-98 MB-103/103Y MB-133 MBB-3 Alligator	MB-96N Swivel type	MB-96F Fixed type	MB-96FL Long type
IC-M94DE				(Use MB-133)		V	V
IC-M73EURO			(Use MB-86)	(Use MB-103)	V	V	~
IC-M37E				(Use MB-133)			
IC-M25EURO				(Use MB-133)			
IC-M85E	V	V	(Use MB-136)	(Use MBB-3)	~	~	~
IC-F51 ATEX IC-F61 ATEX			(Use MB-86)	(Use MB-98)		V	
IC-M87 ATEX			(Use MB-86)	(Use MB-98)		~	
IC-GM1600E				(Use MB-103Y)			

	CARRYIN	G CASES		ANTENNAS	
MODEL NAME	LC-187 Charging is possible while the case is attached	LC-188	FA-S59V FA-S64V FA-SC58V FA-SC59V (left) & FA-S64V (right)	FA-S24V 136–150 MHz FA-S59V 150–174 MHz FA-S27U 400–470 MHz FA-S56U 450–520 MHz	FA-S62VS 150–162 MHz FA-S63VS 160–174 MHz FA-S57US 450–490 MHz
IC-M94DE			FA-SC59V		
IC-M73EURO			FA-S59V or FA-S64V		
IC-M37E			FA-SC59V		
IC-M25EURO			FA-SC59V		
IC-M85E	V	~	FA-SC58V		
IC-F51 ATEX IC-F61 ATEX				~	~
IC-M87 ATEX			FA-S59V		
IC-GM1600E					

: Applicable : Not applicable The IC-F51/F61 ATEX and IC-M87 ATEX Intrinsically Safe model should only be used with the specified Intrinsically Safe approved options may not be available in some countries. Please ask your dealer for de	
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## Optional Accessories for Fixed Mount Transceivers and Others

### **VHF FIXED MOUNT TRANSCEIVERS**

	HAN	ID MICROPHO	NES	COMMAND HEAD™		COMMANDMIC	тм	HORN SPEAKER	HANDSET
MODEL NAME	HM-205B/RB/SW Speaker microphone	HM-235B/W	HM-214V	RC-M600	HM-229B/W	HM-195B/SW With Distress Button	HM-195GB/GW With Distress Button		HS-98 (#16)
	0		8						
IC-M605EURO	(Use with HM-205RB)			~	~			V	
IC-M510E	(Use with HM-205RB)				~	~	V	V	
IC-M423GE	(Use with HM-205B/SW)					~	V	V	
IC-M510BB							V	V	
IC-M400BBE						~	V	V	
IC-M330GE		(Same as supplied)						~	
GM600			(Same as supplied)						~

	INTERFACE BOX	FRONT PANEL COVER	CONNECTION CABLE	EXT	TENSION CAB	LES	DC-DC CONVERTER	FLUSH MOUNT KITS	VOICE SCRAMBLER
MODEL NAME	CT-M500 For NMEA 2000 and hailer/RX speaker		OPC-2384 12-pin to 8-pin for use with COMMANDMIC™	OPC-2377 10 m cable	6.1 m cable for use with	with rear microphone	PS-310 (#01) 24 V input PS-310 (#02) 12 V input	100 TO	UT-112/A Total of 32 voice scramble codes available
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)	V
IC-M510E	V	~			(Use with COMMANDMIC, HM-205RB)	(For use with HM-205RB)		(Use with MBF-7)	(Use UT-112A)
IC-M423GE					(Use with COMMANDMIC)			(Use with MB-132)	
IC-M510BB					(Use with COMMANDMIC)				
IC-M400BBE					(Use with COMMANDMIC)				
IC-M330GE								(Use with MBF-5)	
GM600							V		

	GNSS ANTENNA	SOFTWARE
MODEL NAME		RS-M500*
	5 m cable	For Android™/ iOS™ device
	8	16
IC-M605EURO	(Same as supplied)	
IC-M510E	<b>✓</b>	V
IC-M423GE		
IC-M510BB	(Same as supplied)	
IC-M400BBE		
IC-M330GE		
GM600		

<sup>\*</sup> Free download app for Android<sup>TM</sup>/iOS<sup>TM</sup>. Download on Google Play<sup>TM</sup>/App Store.

### AIS TRANSPONDER

AIO THANOI ONDEN					
	FLUSH MOUNT KITS				
MODEL NAME	MB-75	MB-132			
MA-510TR	<b>V</b>	V			

### MARINE RADAR

	SYSTEM CABLE		
MODEL NAME	<b>OPC-2340</b> 30 m		
MR-1010RII	<b>✓</b>		

### MF/HF FIXED MOUNT TRANSCEIVERS

	HAND MICROPHONE	HANDSET	EXTERNAL SPEAKER	ANTENNA TUNER	SHIELDED CONTROL CABLE	MOUNTING BRACKET	FLUSH MOUNT KITS
MODEL NAME	HM-214H	HS-98	SP-24E		OPC-1465	MB-108	MB-75
	Waterproof			IPX6	10 m		
IC-M804	✓ (Use #13)	✓ (Use #18)	✔ (Use #02)	✔ (Use #64)	(Use with AT-141)	<b>✓</b>	<b>✓</b>
GM800	✔ (Use #13)	✔ (Use #17)	✔ (Use #18)	✔ (Use #45)	(Use with AT-141)	V	V

: Applicable : Not applicable

## Optional Accessories for Wireless LAN Transceivers

### **WLAN TRANSCEIVERS**

	CHARGER STAND	AC ADAPTER	SPEAKER-MI	CROPHONES	EARPHONE-MICROPHONE		HEAD	SETS	
MODEL NAME	BC-257 Connects up to four BC-257 units.	BC-228 15 V/4 A For BC-257 multiple connec- tion	HM-186PI	HM-228 Water proof	НМ-179РІ	VS-3 Bluetooth® headset	HS-94 Earhook type with boom microphone		HS-97 Throat microphone type
IP110H	(Use with OPC-2480*1/BC-228)	(Use with BC-257)	~	~	~	~	(Use with OPC-2133)	(Use with OPC-2133)	(Use with OPC-2133)

 $<sup>^{\</sup>star 1}$  OPC-2480 is a USB type C cable, which is supplied with the IP110H.

 $<sup>^{\</sup>star 2}$  HS-94, HS-95 and HS-97 headsets are simplex operation only.

	EARPHONE	PLUG ADAP	TER CABLES	BELT CLIP
MODEL NAME	SP-16PIBW	OPC-2132 2-pin microphone adapter	OPC-2133	MBB-1 Alligator type
IP110H	<b>V</b>	V	V	<b>V</b>

## **Specifications for Transceivers**

### **HANDHELD TRANSCEIVERS**

		IC-M94DE	IC-M73EURO	IC-M37E	IC-M25EURO	IC-M85E
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	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 PMR TX/RX: 136–174
Dimensions (projections not included; W × H × D)		60.9 × 145.8 × 43.8 mm	52.5 × 125 × 30 mm	59.7 × 140.5 × 38.7 mm	56.6 × 134.2 × 30.5 mm	56 × 92 × 36.2 mm
Weight (approxi	mate)	357 g (With BP-306, antenna and MB-133)	320 g (With BP-245H, MB-103 and FA-S64V)	293 g (with BP-296, FA-SC59V and MB-133)	218 g (With MB-133 and antenna)	281 g (With BP-294, FA-SC58V and MBB-3)
	Transmit (High)	1.5 A	1.5 A	2.75 A	2.3 A	1.5 A
Current drain (approximate) Max	Max. audio	350 mA (External SP) 700 mA (Internal SP)	250 mA (External SP) 450 mA (Internal SP)	200 mA (External SP) 400 mA (Internal SP)	200 mA (External SP) 400 mA (Internal SP)	450 mA
Audio	External SP	200 mW (8 Ω load)	200 mW (8 Ω load)	200 mW (4 Ω load)	200 mW (4 Ω load)	700 mW typical (8 Ω load @ 1 kHz)
output power	Internal SP @1 kHz	1500 mW typical (8 Ω load)	700 mW typical (8 Ω load)	700 mW typical (8 Ω load)	700 mW typical (8 Ω load)	700 mW typical (12 Ω load)
RF output power	r	6 W/1 W	6 W/3 W/1 W/0.5 W* (* For only FRG version)	6 W/1 W	5 W/1 W/0.5 W* (* For only FRG version)	5 W/3 W/1 W
Operating time (approximate)		10 hours (with BP-306)*1	Plus version 17 hours Basic version 20 hours (with BP-245H)*1	12 hours (with BP-296)*1	11 hours (with built-in battery)*1	21 hours (with BP-294)*1
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

		IC-F51 ATEX	IC-F61 ATEX	IC-M87 ATEX	IC-GM1600E
Frequency range (Unit: MHz)		TX/RX: 136–174	TX/RX: 400–470	TX: 156.000-161.450 RX: 156.000-163.425	TX/RX: 156.300-156.875
Dimensions (pro not included; W		56 × 97 × 36.4 mm (with BP-227AX)		$62 \times 97 \times 39 \text{ mm}$ (with BP-227AX)	65 × 145 × 44 mm
Weight (approximate)		295 g (with BP-227AX)		280 g (with BP-227AX)	385 g (With BP-234)
Current drain	Transmit (High)	0.7 A	0.8 A	0.7 A typical	1.0 A/0.7 A (2 W/1 W)
(appoximate)	Max. audio	300 mA		200 mA typical	200 mA typical
Audio	External SP	-		200 mW (8 Ω load)	200 mW (8 Ω load)
output power	Internal SP @1 kHz	500 mW typical (8 Ω load)		200 mW (8 Ω load)	350 mW typical (8 Ω load)
RF output powe	r	1	W	1/0.5 W	2 W/1 W
Operating time (approximate)		16.5 hours (with BP-227AX)*2		19 hours (with BP-227AX)*2	Specified as IMO Res. MSC.149(77)
AIS Receiver		_		-	-

Measurements made in accordance with EN 301-178 and EN 300 086 for IC-M87 ATEX. EN 300 086 for IC-F51 ATEX, F61 ATEX.

### VHE EIVED MOUNT TRANSCEIVERS

		IC-M605EURO	IC-M510E	IC-M423GE	IC-M510BB	IC-M400BBE	IC-M330GE	GM600
	Transmit	156.025–161.425	156.025–161.425	156.000–161.450	156.025–161.425	156.000–161.450	156.000–162.000	156.025–161.600
Frequency	Receive	156.300-162.000	156.300–161.425	156.000-161.450	156.025-161.425	156.000–161.450	156.000–162.000	156.025–161.600
range	DSC (CH 70)	156.525	156.525	156.525	156.525	156.525	156.525	156.525
(Unit: MHz)	AIS	161.975, 162.025	161.975, 162.025*1	- 130.323	161.975, 162.025	-	-	- 130.323
Power supp	oly requirement	13.8 V DC (10.8–15.6 V DC)	13.8 V DC (10.8–15.6 V DC)	13.8 V DC (10.8–15.6 V DC)	12.0 V DC (10.8–15.6 V DC)	13.8 V DC (10.8–15.6 V DC)	13.8 V DC (10.8–15.6 V DC)	24 V DC (21.6–31.2 V DC)*3 12 V DC (10.8–15.6 V DC)*3 (negative ground)
Dimensions projections no	S (W × H × D; ot included)	274 × 114 × 121.5 mm	175.0 × 110.0 × 53.6 mm	180 × 82 × 119.9 mm	M510BB 216 × 79 × 113 mm HM-195 67.5 × 144.5 × 37 mm	M400BBE 216 × 79 × 125 mm HM-195 67.5 × 144.5 × 37 mm	156.5 × 66.5 × 88.2 mm	274 × 114 × 121.5 mm
Weight (app	proximate)	1.5 kg	750 g (Not included microphone)	1.2 kg	IC-M510BB 890 g HM-195B/SW 400 g	IC-M400BBE 830 g HM-195B/SW 400 g	730 g	1.6 kg
<b></b>	Transmit (High)	6.0 A max.	5.0 A max.	5.5 A	5.5 A	5.5 A	5 A	3.3 A*2
Current drain	Max. audio	8.0 A max. (Ext SP, RX hailer ON, HM-229 x 3)	3.3 A max.	5 A typ. (Ext SP, RX SP ON) 1.5 A (Internal SP)	4.5 A (HM-195 × 3, RX hailer) 1.5 A (HM-195 × 1)	3.5 A	1 A	2.0 A*2
	Voice (20 dB SINAD)	-5 dBµ emf typical	-5 dBµ emf typical	-5 dBµ emf typical	Less than -2 dBµ emf	-5 dBµ emf typical	-5 dBµ emf typical	-7 dBµ emf typical
Sensitivity	DSC (1% BER)	-3 dBµ emf typical	-1 dBµ emf typical	-4 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-	Voice	75 dB	75 dB	68 dB	68 dB	68 dB	68 dB	75 dB
modulation	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 outpu (10% dist./4 Ω		15 W (Ext. speaker)	15 W typ. (Ext. speaker)	10 W (Ext. speaker)	2 W (HM-195B/SW) 13 W (RX Speaker)	2 W (HM-195B/SW) 10 W (RX Speaker)	2 W	10 W (Ext. speaker) 2 W (Int. speaker)
RF output p	oower	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 inter	face	NMEA 2000, NMEA 0183-HS × 2	NMEA 2000*4 NMEA 0183-HS	NMEA 0183	NMEA 2000, NMEA 0183-HS	NMEA 0183	NMEA 0183	IEC 61162-1
AIS Receive	er	Built-in	Built-in*1	_	Built-in	_	_	_

Measurements made in accordance with EN 301 025-2, -3 for IC-M605EURO, IC-M510E, IC-M423GE, IC-M510BB, IC-M400BBE and IC-M330GE. EN301 925 for GM600.

1 Only for the AIS version. 2 With PS-310 (#01). 3 With PS-310 (#02). 4 CT-M500 required

EN 301-178-2, EN 300 086 and IEC61097-12 for IC-GM1600E. \*2 Conventional mode. 5:5:90 duty cycle, power save ON.

## Specifications for MF/HF Transceivers, AIS and RADAR

### MF/HF FIXED MOUNT TRANSCEIVERS

		IC-M804	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	
RX/TX		J3E (USB), J2B (AFSK), F1B (FSK)	J3E (USB), F1B (FSK)	
Mode	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	Main unit	367 × 95 × 260 mm	367 × 95 × 260 mm	
projections not ncluded; W × H × D) Controller		274 × 114 × 86 mm	274 × 114 × 86 mm	
Main unit		8.6 kg	8.6 kg	
Weight (approx.) 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*	
Current drain	Receive (Max. audio)	Less than 6.0 A (at 12 V)/ Less than 3.0 A (at 24 V)	Less than 3.0 A	
	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)	
Sensitivity	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 ra		0 dBμV emf	0 dBμV emf	
Audio output power		4.0 W with 4 $\Omega$ 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)	150 W PEP into 50 $\Omega$ (at radio terminal) 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-M804. \* at 1.1 kHz and 1.7 kHz two tones.

### **AIS TRANSPONDER**

AIO IIIAIN	JI OIVDE		
		MA-510TR	
Frequency ran (Unit: MHz)	ige	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; $W \times H \times D$ )		166.2 × 110.2 × 92.5 mm	
Weight (appro	ximate)	700 g	
Current drain	Transmit	1.5 A	
Current drain	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 pov	ver	2 W	

### Measurements made in accordance with IEC62287-1.

### **MARINE RADAR**

DISPLAY UNIT	MR-1010RII
Display	10.4-inch colour TFT LCD
Resolution (H × V)	480 × 640 dots
Minimum range	25 m; 82 ft (at <sup>1</sup> / <sub>8</sub> NM range)
Maximum range	36 NM
Power supply requirement	12 V or 24 V DC (10.2–42 V DC)
Dimensions (projections not included; W × H × D)	301 × 323.5 × 119.2 mm
Weight (approximate)	4.3 kg
Usable temperature range	–15°C to +55°C
Power consumption (approximate)	55 W
Available scanner unit	2 ft (60 cm) radome

SCANNER U	JNIT	MR-1010RII	
Туре		2 ft (60 cm) radome	
Peak output	power	4 kW	
Rotation sp	eed	24, 36 rpm typical	
Beamwidth	Horizontal	4° typical	
Dealliwidili	Vertical	22° typical	
Sidelobe		-22 dB typical	
Transmissio	n frequency	9410 MHz ±30 MHz	
Dimensions not included;		640 × 256 × 640 mm	
Weight (app	roximate)	8 kg	
Usable temp	perature	–25 °C to +70 °C; –13 °F to +158 °F	
Connection	cable	15 m; 49.2 ft (OPC-2341)	

### **SATELLITE PTT**

	IC-SAT100	IC-SAT100M
Frequency Range	1616–1626.5 MHz	1616–1626.5 MHz
Talkgroups	15 (Max.)	15 (Max.)
Dimensions (W × H × D; Projections are not included)	57.8 × 135 × 32.8 mm	Antenna unit (with RF unit): $76.8 \times 200 \times 76.8$ mm, Main unit: $125 \times 29 \times 156.5$ mm
Weight (approximate)	360 g	Antenna unit (with RF unit): 500 g, Main unit with microphone: 1.2 kg
IP Rating	IP67	IP67 (Antenna unit (with RF unit)), IP55 (mic), IP54 (main unit)
Operating Time (Hours)	14.5	N/A
Display	Yes	Yes
Keypad	Limited	Limited
AF Output Power (Internal SP)	1500 mW typical	1500 mW typical
Encryption AES	Yes	Yes
Vibration Alert	Yes	N/A
Voice Recorder	Yes	Yes
Bluetooth® Capability*	Yes	Yes
GPS Receiver	Yes	Yes
Short Data Message	Yes	Yes
Emergency Call	Yes	Yes
PoE Capability	N/A	Yes
I/O Control Port	USB, 14-PIN ACC	D-SUB, LAN, Ignition sense

<sup>\*</sup> Version without Bluetooth® also available. Ask your Dealer for details.

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