



Marine Products

European Edition





VHF Handheld Transceivers



Slim Buoyant Handheld DSC Transceiver

VHF MARINE TRANSCEIVER WITH DSC IC-M93D EURO

FEATURES

- 2.3" large high visibility LCD
- Slim buoyant DSC transceiver
- Intuitive user interface
- Built-in class H DSC with a CH70 receiver
- Float'n flash and MOB auto set function
- Integrated GNSS receiver
- Active noise cancelling technology

• IPX7 waterproof • Navigation function • 50 waypoint memories • Dual watch 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-285 battery pack • BC-220 battery charger
- BC-123SE/SUK* 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

* May differ or not supplied, depending on the transceiver version.



Buoyant 6 Watt VHF with up to 12 Hours of Operation

VHF MARINE TRANSCEIVER IC-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™ • 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/SV* AC adapter • MB-133 belt clip
- FA-SC59V antenna • Hand strap

* May differ or not supplied, depending on the transceiver version.



VHF Handheld Transceivers



Satellite PTT



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)
- Buoyant with flashing LED light
- 11 hours of long operating time
- 5 W RF output, 550 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 (with BC-217SE) • Optional speaker-microphone, HM-213 • Supports 4-digit channels

* Available functions may be subject to local regulations.

Supplied Accessories

- BC-217SE* USB charger • MB-133 belt clip
 - FA-SC59V 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

FEATURES

- 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 protection

• Built-in voice scrambler compatible with UT-112/A (Acceptable to use depending on the country.) • Built-in CTCSS and DTCSS tones • Dual watch and Tri-watch functions • Instant access to Ch 16 and call channel • AquaQuake™ • Tag scan and favorite channel function • 14 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.

Supplied Accessories

- BP-290 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.



Real-Time Communications Across the Globe

SATELLITE PTT IC-SAT100

FEATURES

- One-to-many communications
- Total global coverage*¹
- Uses the Iridium® satellite network
- Emergency button on the top panel
- 1500 mW powerful audio
- IP67 waterproof, durable body
- Short data message function
- AES 256-bit encryption

• Interoperability with conventional radios and IP phones through the optional VE-PG4, RoIP gateway*² • 14.5 hours of long lasting battery life*³ • Voice Recording function • Multiple language display • Bluetooth® capability • Integrated GPS receiver • SMA type antenna connector • AquaQuake™ • USB charging (USB Micro-B type)

*¹ Depending on the country or region, carrying and/or use of the IC-SAT100 may be prohibited.

*² Optional connection cable (OPC-2412) is required to connect to the VE-PG4.

*³ TX : RX : standby = 5 : 5 : 90.

Supplied Accessories

- BP-300 battery pack • BC-241 rapid charger
- BC-242 AC adapter • FA-S102U antenna • MBB-5 belt clip



Intrinsically Safe Transceivers

For Marine Channels



ATEX Intrinsically Safe Marine Channels

VHF MARINE TRANSCEIVER
IC-M87 ATEX (1 W)

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 Tri-watch 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
- FA-S59V antenna • Hand strap

* May not supplied depending on the transceiver version.

For PMR Channels



ATEX Intrinsically Safe PMR Channels

VHF TRANSCEIVER
IC-F51 ATEX (1 W)
UHF TRANSCEIVER
IC-F61 ATEX (1 W)

FEATURES

- **ATEX Certifications**
Gas: II 2G Ex ib IIA T3 Gb
Dust: II 2D Ex tb IIIC T160°C Db IP67
(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) x 97 (H) x 36.4 (D) mm • Optional speaker-microphone, HM-138 • 136-174 and 400-470 MHz, 1 W

Supplied Accessories

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

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 10-11). Please ask your dealer to ensure the ATEX and IECEx ratings are acceptable for the intended place of use.



IDAS™
ICOM DIGITAL ADVANCED SYSTEM



IECEx/ATEX Intrinsically Safe Digital Radio

VHF TRANSCEIVER
IC-F3202DEX (1 W)
UHF TRANSCEIVER
IC-F4202DEX (1 W)

FEATURES

- **ATEX Certifications**
Mining: I M2 Ex ib I Mb
Gas: II 2G Ex ib IIC T4 Gb
Dust: II 2D Ex tb IIIC T110°C Db
-20°C ≤ Tamb ≤ +55°C
- **IEC Certifications**
Ex ib I Mb
Ex ib IIC T4 Gb
Ex ib IIIC T110°C Db
-20°C ≤ Tamb ≤ +55°C
- **IP67 dust-tight and waterproof protection**
- **IDAS™ digital and analogue mixed mode**
- **Built-in 2-Tone, 5-Tone, CTCSS and DTCS**

• DTMF autodial • 16 memory channels • MDC 1200 (limited functions)* (* Depending on version) • BIIS 1200 (limited functions)* (* Depending on version) • Optional HM-203EX speaker-microphone • 136-174 and 400-470 MHz, 1 W

Supplied Accessories

- BP-277EX, battery pack • BC-212EX, desktop charger
- BC-123SE/SUK*, AC adapter • MB-94EX, belt clip • Antenna

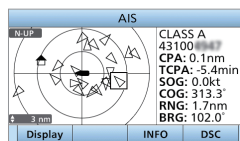
* May differ depending on the transceiver version.



VHF Fixed Mount Transceivers

4.3 inch Colour TFT LCD, Built-in AIS Receiver and Flexible Remote Control Configurations

VHF MARINE TRANSCEIVER IC-M605EURO



TARGET LIST (93)		
MMSI/Name	RNG	BRG
DAIEMARU NO.3	3.3	154
GYOKO MARU	3.4	147
MIRAIE	3.4	249
TOKUYO MARU NO21	3.9	259

AIS target list



Supplied GPS antenna

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)
- NMEA 2000™ connectivity • Intuitive user interface
- Class leading receiver performance (Selectivity and IMD: 80 dB typ.)
- Active noise cancelling technology • Last call voice recording for two minutes
- Voice scrambler with optional UT-112/A • 15 W loud audio and 30 W two-way hailer
- Integrated GNSS receiver (GPS, GLONASS and SBAS) • Built-in Class D DSC

- 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 • Priority scan function • Display and keypad backlighting • External speaker connection • Supports 4-digit channels

Flexible Remote Control Scenario

The IC-M605EURO can be remotely controlled with up to three COMMAND HEAD™/COMMANDMIC™. All functions (including Distress) of the IC-M605EURO can be controlled with the RC-M600. With the RC-M600 and/or HM-229B/W* connected, the IC-M605EURO provides an intercom system allowing two way private communications.

* Optional connection cable, OPC-2384 is required.



Full Remote Control from Optional Command Station

COMMAND HEAD™ RC-M600



Space-Saving Compact Body for Daily Operations

COMMANDMIC™ HM-229B/W

- Black or white colour version
- External microphone-type controller without Distress key



* Photo shows HM-229B.



VHF Fixed Mount Transceivers

Fixed Mount VHF and AIS Receiver Combo with NMEA 2000™ Connectivity

VHF MARINE TRANSCEIVER IC-M506GE



AIS plotter

TARGET LIST (139)		
MMSI/Name	RNG	BRG
431003	1.1	331
TAMAKI PRIN	1.4	003
EIWAMARU	1.4	280
OVAL LP NO.1	1.6	266
KANRYUMARU	1.7	006

AIS target list



Functions menu



Supplied GPS antenna



COMMANDMIC™,
HM-195 series capable



FEATURES

- Integrated AIS Receiver
- NMEA 2000™ connectivity
- 2 minutes last call voice recording
- Intuitive user interface
- Active Noise Cancelling Technology
- Built-in GPS receiver (GPS antenna supplied)
- 15 W loud audio and 25 W two-way hailer
- Optional COMMANDMIC™, HM-195 series
- IPX8 advanced waterproof (1 m depth water for 60 minutes)
- Built-in Class D DSC
- Meets ITU-R M493-14 specifications
- Dual watch and Tri-watch functions
- Instant access to Ch 16 and Call channel
- Tag scan and favorite channel functions
- AquaQuake™
- Priority scan function
- Display and keypad backlighting
- External speaker connection
- Option voice scrambler UT-112/A
- Large dot-matrix display
- Rear panel microphone version
- Supports 4-digit channels

Easy-to-Use and Even Easier to Hear!

VHF MARINE TRANSCEIVER IC-M423GE



COMMANDMIC™,
HM-195 series capable



Supplied GPS antenna



FEATURES

- Intuitive user interface and white backlight display
- Active Noise Cancelling Technology
- Built-in GPS receiver (GPS antenna supplied)
- 10 W loud audio, public address and foghorn
- Optional HM-195GB/GW COMMANDMIC™
- Built-in Class D DSC
- Meets ITU-R 493-14 specifications
- IPX7 waterproof
- Dual watch and Tri-watch functions
- Instant access to Ch 16 and Call channel
- Tag scan and favorite channel functions
- AquaQuake™
- Priority scan function
- Display and keypad backlighting
- External speaker connection
- RX speaker function
- Black or super white colour version
- Speaker-microphone, HM-205B/SW
- Supports 4-digit channels



VHF Fixed Mount Transceivers

Black Box Transceiver When Space is at a Premium

VHF MARINE TRANSCEIVER

IC-M400BBE



Supplied GPS antenna



FEATURES

- Space saving, fully functional VHF/DSC
- Controlled by COMMANDMIC™ HM-195B/SW/GB/GW*
- Active Noise Cancelling Technology
- 10 W loud audio, public address and foghorn
- Meets ITU-R 493-14 specifications
- Built-in Class D DSC
- Intuitive user interface
- Built-in GPS receiver (GPS antenna supplied)
- IPX7 waterproof
- Dual watch and Tri-watch functions
- Instant access to Ch 16 and Call channel
- Tag scan and favorite channel functions
- AquaQuake™
- Display and keypad backlighting
- External speaker connection
- RX speaker function
- Supports 4-digit channels

* HM-195B/SW/GB/GW may be sold separately, depending on version.

Top Performance Ultra Compact VHF

VHF MARINE TRANSCEIVER

IC-M330GE



Supplied GPS antenna



Available in black or white.

FEATURES

- Ultra compact body (W×H×D; 156.5 × 66.5 × 110.1 mm)
- Uncompromised receiver performance (Selectivity and IMD: more than 70 dB)
- Intuitive user interface
- Easy-to-read full dot-matrix display
- Meets ITU-R 493-14 specifications
- Built-in Class D DSC
- Dynamic clear audio from bass to treble
- Built-in GPS receiver (GPS antenna supplied) (IC-M330GE)
- IPX7 waterproof
- Dual watch and Tri-watch functions
- Instant access to Ch 16 and Call channel
- Tag scan and favorite channel functions
- AquaQuake™
- Priority scan function
- Display and keypad backlighting
- External speaker connection
- Supports 4-digit channels

* IC-M330E (without GPS receiver) also available depending on the country.



COMMANDMIC™

Full Remote Control Capability

REMOTE-CONTROL MICROPHONES

HM-195GB/GW

(White backlight LCD)

HM-195B/SW

(Amber backlight LCD)



Above photo shows HM-195GB
Available in black or super white.

FEATURES

- Full control 2nd station capability for IC-M506GE or M423GE
- Remote-Controller head for IC-M400BBE
- Intercom function with IC-M506GE or M423GE
- Distress button on the rear panel



AIS Transponder

Fully Capable Class B AIS Transponder

CLASS B AIS TRANSPONDER

MA-500TR



FEATURES

- Class B AIS transponder
- CPA and TCPA collision-risk management
- AIS target call with Icom VHF transceivers

* The MXG-5000S may be sold separately, depending on country.

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 Colour TFT LCD

VHF MARINE TRANSCEIVER

GM600



PS-310 DC-DC converter

Reliable Long Distance MF/HF Communication

MF/HF MARINE TRANSCEIVER

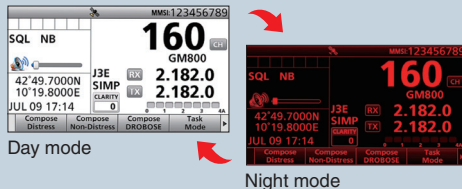
GM800





FEATURES

- Meets VHF GMDSS requirements for SOLAS ships
 - Certified for European Maritime Equipment Directive (MED)
 - ITU Class A DSC
 - Large and high contrast 4.3-inch colour 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 handset, HS-98 (#16) • IPX7 waterproof for front panel
 - Dual watch 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) • Supports 4-digit channels
- Please Note:** PS-310 MUST BE USED with GM600 for MED certification compliance.



FEATURES

- Meets MF/HF GMDSS requirements for SOLAS ships
 - Certified for European Maritime Equipment Directive (MED)
 - ITU Class A DSC
 - Large and high contrast 4.3-inch colour TFT LCD
 - Intuitive user interface for straightforward operation
 - Dedicated DSC watch receiver for continuous scanning of the six distress channels
 - Optional automatic antenna tuner, AT-141
- Output power: 150 W* 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
 - Supplied handset, HS-98 (#17) • IPX7 waterproof for controller
 - Maximum 160 programmable channels • Program scan, channel scan and channel resume scan
 - Unified design with GM600 (VHF)
- * 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 antenna tuner, AT-141.



SURVIVAL CRAFT 2-WAY RADIO IC-GM1600E GMDSS Portable for Survival Craft

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.



IP ADVANCED RADIO SYSTEM

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

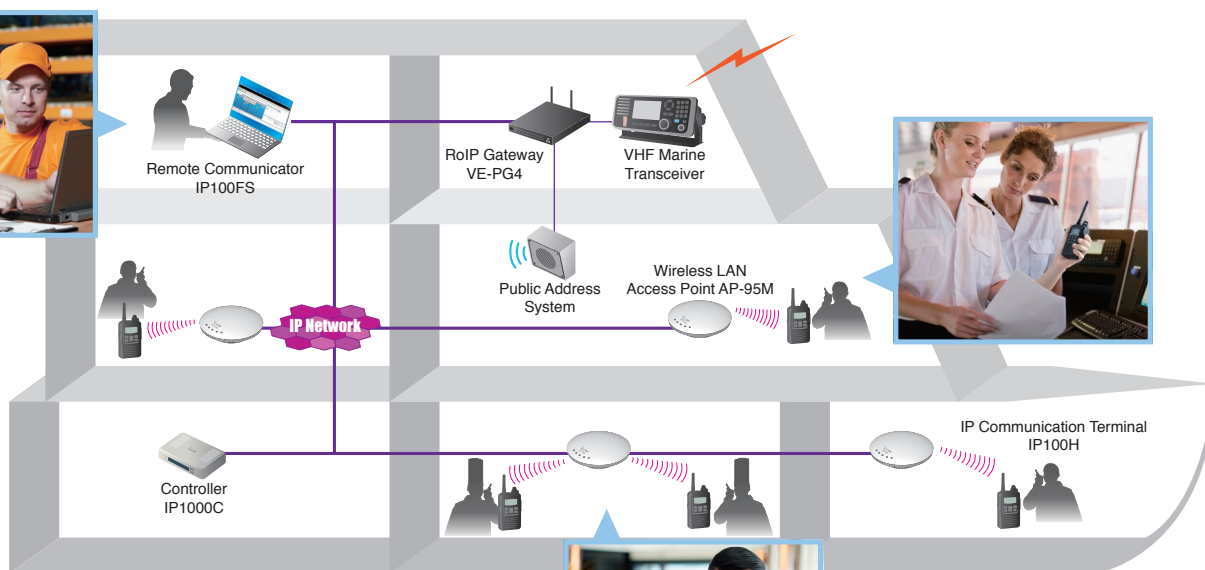
System Features

Wireless Communication System for Ships Crew

Individual, Group or Area Communication

Hands-free, Full-duplex Communication with Optional Earphone-mic or Headset

Interconnect between VHF Marine Transceiver and Public Address System



IP Communication Terminal

IP100H

- Licence-free communication terminal using IEEE 802.11 a/b/g/n standards
- WPA-PSK or WPA2-PSK encryption
- IPX7 waterproof (1 m depth water for 30 minutes)
- Compact 58 × 95 × 26.4 mm body and 205 g (approximate) light weight
- Vibration alert function for incoming calls
- Tested to the MIL-STD 810G specifications
- Emergency function



Remote Communicator Software

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 IP100H based on connection to access points
- Can be installed on a Windows® based tablet PC as well as laptop PC



Controller

IP1000C

- The IP1000C controls all terminal configurations and voice traffic
- Capable of controlling up to 100 terminals (including IP100FS)



Wireless Lan Access Point

AP-95M

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












RoIP Gateway

VE-PG4

- Versatile radio over IP gateway linking land mobile radios, IP communication terminals, IP phone systems and external devices
- Wireless LAN IP Advanced Radio System controller (Equivalent to the IP1000C function) built-in, capable of controlling up to 50 IP communication terminals
- IDAS™ Conventional and NXDN™ Type-D multi-site trunking connection





















Options for Handheld Transceivers










	BATTERY 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-227AXD (Li-ion) For intrinsically safe radios 7.4 V/1850 mAh (min.) 1950 mAh (typ.) 	BP-277EX (Li-ion) For intrinsically safe radios 7.4 V/1800 mAh (min.) 1900 mAh (typ.) 	BP-285 (Li-ion) 7.2 V/1485 mAh (min.) 1570 mAh (typ.) 	BP-245H (Li-ion) 7.2 V/2100 mAh (min.) 2250 mAh (typ.) 	BP-252 (Li-ion) 7.2 V/1000 mAh (min.) 1050 mAh (typ.) 	BP-296 (Li-ion) 3.6 V/2200 mAh (min.) 2350 mAh (typ.) 
IC-M93D EURO						✓			
IC-M73EURO							✓		
IC-M37E		✓							✓
IC-M25EURO*2									
IC-M85E	✓								
IC-M87ATEX			✓						
IC-F51 ATEX				✓					
IC-F61 ATEX									
IC-F3202DEX					✓				
IC-F4202DEX									
IC-GM1600E								✓ (On-board use only)	

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

*2 As the Lithium-ion battery cell (3.7 V 1500 mAh) is built-in to the IC-M25EURO, the user cannot replace the battery cell.

	BATTERY PACKS		DESKTOP CHARGERS						
MODEL NAME	BP-290 (Li-ion) 7.2 V/1910 mAh (min.) 2010 mAh (typ.) 	BP-234 (Lithium) 9.0 V/3300 mAh (non-rechargeable) 	BC-212EX*3 Rapid charger for intrinsically safe radios 	BC-220 Rapid charger 	BC-210 Rapid charger 	BC-235 Desktop charger 	BC-173 Regular charger 	BC-219N Rapid charger 	BC-225 Intelligent rapid charger 
IC-M93D EURO				✓					
IC-M73EURO					✓				
IC-M37E						✓			
IC-M25EURO									
IC-M85E	✓							✓	✓
IC-M87ATEX									
IC-F51 ATEX									
IC-F61 ATEX									
IC-F3202DEX			✓						
IC-F4202DEX									
IC-GM1600E		✓ (For survival craft)					✓ (On-board use only)		










	DESKTOP CHARGERS				MULTI-CHARGERS				AC ADAPTERS
MODEL NAME	BC-226 Connectable type. Connects up to six BC-226 units. 	BC-227 Rapid charger 	BC-119N*3 Rapid charger 	BC-152N*3 Regular charger 	BC-214*4 Rapid charger 	BC-197*5 Rapid charger 	BC-238*6 Rapid charger 	BC-121N*3 Rapid charger 	BC-123SE/SUK 12 V/1 A 
IC-M93D EURO					(Use #13, AD-133 installed)				(Use with BC-220)
IC-M73EURO						(Use #33, AD-129 installed)			(Use with BC-210)
IC-M37E							(AD-138 installed)		
IC-M25EURO									
IC-M85E	✓	✓			(Use #23, AD-132N installed)				✓(Use with BC-219N, BC-225 or BC-227)
IC-M87ATEX			(Use with AD-100)	✓				(Use with AD-100)	
IC-F51 ATEX			(Use with AD-100)	✓				(Use with AD-100)	
IC-F61 ATEX									
IC-F3202DEX									✓(Use with BC-212EX)
IC-F4202DEX									
IC-GM1600E									










	AC ADAPTERS				USB CHARGER	CHARGER ADAPTERS	CIGARETTE LIGHTER CABLES		DC POWER CABLES
MODEL NAME	BC-145SE/SUK 16 V/0.93 A 	BC-147SE 12 V/330 mA 	BC-157S 12 V/7.5 A 	BC-228 15 V/4 A 	BC-217SE 5 V/1 A 	AD-100 AD-129*5 AD-132N*4 AD-133*4 AD-138*6 	CP-25H 	CP-23L 	OPC-515L 
IC-M93D EURO			(Use with BC-214)			(Use AD-133 with BC-214)	(Use with BC-220)		
IC-M73EURO			(Use with BC-197)			(Use AD-129 with BC-197)	(Use with BC-210)		(Use with BC-210)
IC-M37E					(Use with BC-235)	(Use AD-138 with BC-238)			
IC-M25EURO									
IC-M85E			(Use with BC-214)	(Use with BC-226)		(Use AD-132N with BC-214)	✓(Use with BC-219N, or BC-227)		✓(Use with BC-219N, BC-225 or BC-227)
IC-M87ATEX	(Use with BC-119N)	(Use with BC-152N)	(Use with BC-121N)			(Use AD-100 with BC-119N/121N)			
IC-F51 ATEX	(Use with BC-119N)	(Use with BC-152N)	(Use with BC-121N)			(Use AD-100 with BC-119N/121N)			
IC-F61 ATEX									
IC-F3202DEX									
IC-F4202DEX									
IC-GM1600E		✓(Use with BC-173, On-board use only)							

*3 The battery charger must not be used in an explosive atmosphere. *4 Either AD-133 or AD-132N is supplied with the BC-214, depending on version. *5 AD-129 is supplied with the BC-197, depending on version.





























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

Options for Handheld Transceivers

	DC POWER CABLES	READER SOFTWARE	SPEAKER-MICROPHONES						
MODEL NAME	OPC-656 	RS-BC225 	HM-203EX For intrinsically safe radios Waterproof 	HM-228 Waterproof 	HM-165 Waterproof 	HM-202 Waterproof 	HM-167 Waterproof 	HM-213 Waterproof 	HM-222 Waterproof 
IC-M93D EURO	(Use with BC-214)			✓	✓	✓	✓		
IC-M73EURO	(Use with BC-197)					✓	✓		
IC-M37E								✓	
IC-M25EURO								✓	
IC-M85E	(Use with BC-214)	(Use with BC-225)							✓
IC-M87ATEX									
IC-F51 ATEX IC-F61 ATEX									
IC-F3202DEX IC-F4202DEX			✓						
IC-GM1600E									

	SPEAKER-MICROPHONES		TIE-CLIP MICROPHONE	HEADSETS			PTT SWITCH CABLE	EARPHONES	
MODEL NAME	HM-236 Waterproof 	HM-138 Waterproof 	HM-163MC 	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 	SP-26 2.5 mm plug SP-27 3.5 mm plug Tube earphone  Photo shows SP-26
IC-M93D EURO									
IC-M73EURO									
IC-M37E									
IC-M25EURO									
IC-M85E	✓		✓	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓	✓ (Use with HM-163MC)	✓*1
IC-M87ATEX		✓							
IC-F51 ATEX IC-F61 ATEX		✓							
IC-F3202DEX IC-F4202DEX									
IC-GM1600E									

*1 SP-26 is use with HM-163MC. SP-27 is use with HM-222 or AD-135.

	EARPHONES				ACC ADAPTERS		BELT CLIPS		
MODEL NAME	SP-28 2.5 mm plug 	SP-29 3.5 mm plug 	SP-32 Tube earphone adapter 	SP-40 3.5 mm plug 	AD-118 6-Pin Hirose plug adapter 	AD-135 3.5 mm jack earphone adapter 	MB-94EX For intrinsically safe radios 	MB-86 MB-136 Swivel type  Photo shows MB-86	MB-98 MB-103/103Y MBB-3 Alligator  Photo shows MB-133
IC-M93D EURO									 (Use MB-133)
IC-M73EURO								 (Use MB-86)	 (Use MB-103)
IC-M37E									 (Use MB-133)
IC-M25EURO									 (Use MB-133)
IC-M85E	 (Use with HM-163MC)	 (Use with HM-222 or AD-135)	 (Use with EH-15B)	 (Use with HM-222 or AD-135)				 (Use MB-136)	 (Use MBB-3)
IC-M87ATEX								 (Use MB-86)	 (Use MB-98)
IC-F51 ATEX IC-F61 ATEX								 (Use MB-86)	 (Use MB-98)
IC-F3202DEX IC-F4202DEX									
IC-GM1600E									 (Use with MB-103Y)

	BELT HANGERS			CARRYING CASES		ANTENNAS			
MODEL NAME	MB-96N Swivel type 	MB-96F Fixed type 	MB-96FL Long type 	LC-187 Charging is possible while the case is attached 	LC-188 	FA-S59V FA-S64V FA-SC58V FA-SC59V  FA-S59V (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 	FA-SC25V 136–150 MHz FA-SC55V 150–174 MHz FA-SC25U 400–430 MHz FA-SC57U 430–470 MHz
IC-M93D EURO		✓	✓			FA-SC59V			
IC-M73EURO	✓	✓	✓			FA-S59V or FA-S64V			
IC-M37E						FA-SC59V			
IC-M25EURO						FA-SC59V			
IC-M85E	✓	✓	✓	✓	✓	FA-SC58V			
IC-M87ATEX		✓				FA-S59V			
IC-F51 ATEX IC-F61 ATEX		✓					✓	✓	
IC-F3202DEX IC-F4202DEX									✓
IC-GM1600E									









✓ : Applicable : Not applicable

The IC-M87 ATEX Intrinsically Safe model 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.




Options for Fixed Mount Transceivers /AIS Transponder

VHF FIXED MOUNT TRANSCEIVERS



	HAND MICROPHONES			COMMAND HEAD™	COMMANDMIC™			HORN SPEAKER	HANDSET
MODEL NAME	HM-205B/RB/SW Speaker microphone	HM-235B/W	HM-214V	RC-M600	HM-229B/W	HM-195B/SW	HM-195GB/GW	SP-37	HS-98 (#16)
									
IC-M605EURO	(Use with HM-205RB)			✓	✓			✓	
IC-M506GE	(Use with HM-205B)					✓	✓	✓	
IC-M423GE	(Use with HM-205B/SW)					✓	✓	✓	
IC-M400BBE						✓	✓	✓	
IC-M330GE		✓						✓	
GM600			✓						✓

	CONNECTION CABLE	EXTENSION CABLES			DC-DC CONVERTER	FLUSH MOUNT KITS	VOICE SCRAMBLER	GPS ANTENNA
MODEL NAME	OPC-2384 12-pin to 8-pin for use with COMMANDMIC™	OPC-2377 10 m; 32.8 ft cable	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 (#01) 24 V input PS-310 (#02) 12 V input	MB-75 MB-132 MBF-5 Photo shows MB-75	UT-112/A Total of 32 voice scramble codes available	UX-241 5 m; 16.4 ft cable
								
IC-M605EURO	(Use with HM-229B/W)	(Use with RC-M600)	(Use with HM-229B/W, HM-205RB)	(For use with HM-205RB)		(Use with MB-132, MB-75)	✓	(Same as supplied)
IC-M506GE			(Use with COMMANDMIC)			(Use with MB-132, MB-75)	✓	
IC-M423GE			(Use with COMMANDMIC)			(Use with MB-132)		
IC-M400BBE			(Use with COMMANDMIC)					
IC-M330GE						(Use with MBF-5)		
GM600					✓			

AIS TRANSPONDER

	FLUSH MOUNT KITS		GPS RECEIVER
MODEL NAME	MB-75	MB-132	MXG-5000S
			
MA-500TR	✓	✓	✓

MF/HF FIXED MOUNT TRANSCEIVER

	HAND MICROPHONE	HANDSET	EXTERNAL SPEAKER	ANTENNA TUNER	SHIELDED CONTROL CABLE	MOUNTING BRACKET
MODEL NAME	HM-214H	HS-98 (#17)	SP-24E (#18)	AT-141 IP56	OPC-1465 10 m; 32.8 ft	MB-108
						
GM800	✓	✓	✓	✓	(Use with AT-141)	✓










Options for Satellite PTT Radio








	BATTERY PACK	RAPID CHARGER	MULTI-CHARGER	SPEAKER-MICROPHONE	TIE-CLIP MICROPHONE	ACC ADAPTERS		EARPHONES	
MODEL NAME	BP-300 (Li-ion) 7.2 V/2200 mAh (min.) 2350 mAh (typ.)	BC-241 + BC-242	BC-214N* + BC-157S	HM-222 With 3.5 mm jack Waterproof	HM-163MC With 2.5 mm jack	AD-135 3.5 mm jack earphone adapter	AD-118 For use with Hirose plug accessory	EH-15B 2.5 mm plug	SP-32 Tube earphone adapter
									
IC-SAT100	✓	✓	✓	✓	✓	✓	✓	(Use with HM-163MC)	(Use with EH-15B)

* The AD-140 charger adapters are supplied with the BC-214N, depending on the charger version.

✓ : Applicable : Not applicable










Options for Satellite PTT Radio










	EARPHONES					PTT SWITCH CABLE	HEADSETS		
MODEL NAME	SP-26 2.5 mm plug	SP-27 3.5 mm plug	SP-28 2.5 mm plug	SP-29 3.5 mm plug	SP-40 3.5 mm plug	VS-5MC For manual PTT, VOX operation	HS-94 Earhook type with boom microphone	HS-95 Behind-the- head type	HS-97 Throat micro- phone type
									
IC-SAT100	✓ (Use with HM-163MC)	✓ (Use with HM-222 or AD-135)	✓ (Use with HM-163MC)	✓ (Use with HM-222 or AD-135)	✓ (Use with HM-222 or AD-135)	✓	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)	✓ (Use with VS-5MC)










	Bluetooth® HEADSET	BELT CLIP	ANTENNAS		DOCKING STATION	CABLES	
MODEL NAME	VS-3	MBB-5	FA-S102U	AH-40 Antenna for in-vehi- cle and in-building use	BC-247* Charger cradle for in- vehicle and in-building use	OPC-656 DC power cable.	OPC-2422 Coaxial cable for AH-40 (5 m)
							
IC-SAT100	✓	✓	✓	✓	✓	✓ (Use with BC-214N)	✓

* AC adapter and connection cables are supplied.

Options for IP Advanced Radio System

	BATTERY PACKS		BATTERY CASE	RAPID CHARGER	MULTI-CHARGER	SPEAKER-MICROPHONES		EARPHONE-MICROPHONES	
MODEL NAME	BP-271 (Li-ion) 7.4 V/1150 mAh (min.) 1200 mAh (typ.) 	BP-272 (Li-ion) 7.4 V/1880 mAh (min.) 2000 mAh (typ.) 	BP-273 LR6 (AA) × 3 cells 	BC-202 + BC-123SA/SE 	BC-211 + BC-157S 	HM-183LS <div>Waterproof</div> 	HM-186LS 	HM-153LS 	HM-166LS 
IP100H	✓	✓	✓	✓	✓	✓	✓	✓	✓

	HEADSETS (Full-duplex operation)		HEADSETS (Simplex operation)			PLUG ADAPTER CABLES	PTT SWITCH CABLES		
MODEL NAME	HS-102 Earphone type	HS-85 Over-the-head type with PTT switch	HS-94 Earhook type with boom microphone	HS-95 Behind-the- head type	HS-97 Throat micro- phone type	OPC-2006LS For VOX opera- tion	OPC-2144 Slim L-type plug	OPC-2359	OPC-2328 For manual PTT operation
									
IP100H	✓ (Use with OPC-2359)	✓ (Use with OPC-2144)	✓ (Use with OPC-2006LS or OPC-2328)	✓ (Use with OPC-2006LS or OPC-2328)	✓ (Use with OPC-2006LS or OPC-2328)	✓	✓	✓	✓

	AC ADAPTERS		AUDIO CONNECTION CABLES						ACCESS POINT MANAGER
MODEL NAME	BC-207S 12 V/4.2 A	BC-147SE 12 V/330 mA	OPC-2273 For VHF radio 5 m	OPC-2275 For mobile transceiver 5 m	OPC-2276 For HM-152 or SM-26 5 m	OPC-2389 For RS-232 serial connection 5 m	OPC-2390 For IC-FR5100 series 5 m	OPC-2412 For the IC-SAT100 5 m	RS-AP3
									
IP100FS		✓							
AP-95M	✓								✓
IP1000C	✓								
VE-PG4			✓	✓	✓	✓	✓	✓	

	DESKTOP MICROPHONE	SPEAKER-MICROPHONE	HAND MICROPHONE	MICROPHONE ADAPTER
MODEL NAME	SM-26	HM-241	HM-152	CT-23
				
IP100FS	✓ (Use with CT-23)		✓ (Use with CT-23)	✓
AP-95M				
IP1000C				
VE-PG4	✓	✓	✓	

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

Specifications for VHF Handheld Transceivers

		IC-M93D EURO	IC-M73EURO	IC-M37E	IC-M25EURO	IC-M85E
Frequency range (Unit: MHz)		TX: 156.000–161.450, 156.000–161.600* RX: 156.000–163.425 CH70: 156.525 (* For only HOL version)	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 TX/RX: 136–174 (PMR)
Dimensions (projections not included; W × H × D)		57.0 × 144.6 × 38.5 mm	52.5 × 125 × 30 mm	59.7 × 140.5 × 38.7 mm	56.6 × 134.2 × 30.5 mm	56 × 92 × 29 mm
Weight (approx.)		300 g (With BP-285, FA-SC59V and MB-133)	320 g (With BP-245H, MB-103 and FA-S64V)	293 g (with BP-296, FA-SC59V and MB-133)	220 g (With MB-133 and FA-SC59V)	246 g (With BP-290, FA-SC58V and MBB-3)
Current drain	Transmit(High)	1.5 A	1.5 A typical	2.75 A	2.3 A (at 3.7 V DC)	1.5 A
	Max. audio	250 mA typical (External SP) 450 mA typical (Internal SP)	250 mA typical (External SP) 450 mA typical (Internal SP)	200 mA (External SP) 400 mA (Internal SP)	200 mA typical (External SP) 300 mA typical (Internal SP)	450 mA
Sensitivity (at 20 dB SINAD; emf)		–6 dBμ typical	–4 dBμ typical	–4 dBμ typical	–6 dBμ typical	–4 dBμ typ. (Marine) –4 dBμ typ. (PMR: Wide) –2 dBμ typ. (PMR: Narrow)
Intermodulation rejection		68 dB	68 dB	68 dB	68 dB	68 dB (Marine) 65 dB (PMR)
Audio output power	External SP	200 mW (8 Ω load)	200 mW (8 Ω load)	200 mW (4 Ω load)	200 mW typical (4 Ω load)	700 mW typical (8 Ω load @ 1 kHz)
	Internal SP @ 1 kHz	900 mW typical (12 Ω load)	700 mW typical (8 Ω load)	700 mW typical (8 Ω load)	550 mW typical (12 Ω load)	700 mW typical (12 Ω load)
RF output power		5 W/1 W/0.5 W* (* For only FRG version)	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 (approx.)		9 hours (with BP-285)*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	14 hours (with BP-290)*1
Waterproof protection		IPX7 (1 m depth/30 min.)	IPX8 (1.5 m depth/30 min.)	IP57 (1 m depth/30 min.)	IPX7 (1 m depth/30 min.)	IP67 (1 m depth/30 min.)
Integrated GNSS receiver		✓	–	–	–	–
Float'n Flash		✓	–	✓	✓	–

Measurements made in accordance with EN 302-885 for IC-M93D EURO. 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-M87ATEX	IC-F51 ATEX	IC-F61 ATEX	IC-F3202DEX	IC-F4202DEX	IC-GM1600E
Frequency range (Unit: MHz)		TX: 156.000–161.450 RX: 156.000–163.425 TX/RX: 146–174 (PMR)	TX/RX: 136–174	TX/RX: 400–470	TX/RX: 136–174	TX/RX: 400–470	TX/RX: 156.300–156.875
Dimensions (projections not included; W × H × D)		62 × 97 × 39 mm	56 × 97 × 36.4 mm (with BP-227AXD)		63 × 144 × 50 mm (with BP-277EX)		65 × 145 × 44 mm
Weight (approx.)		280 g (With BP-227AX)	295 g (with BP-227AXD)		466 g (with BP-277EX, belt clip & ant.)	460 g (with BP-277EX, belt clip & ant.)	385 g (With BP-234)
Current drain	Transmit(High)	0.7 A typical	0.7 A	0.8 A	0.55 A		1.0 A/0.7 A (2 W/1 W)
	Max. audio	200 mA typical	300 mA		300 mA		200 mA typical
Sensitivity (at 20 dB SINAD; emf)		–2 dBμ typical (Marine) –4 dBμ typical (PMR)	–4 dBμV typical		–4 dBμV typical		–2 dBμ typical
Intermodulation rejection		68 dB (Marine) 65 dB (PMR)	67 dB typical (W/M/N)		67 dB typical (W/M/N) 73 dBμV typical (Digital, emf)		68 dB
Audio output power	External SP	200 mW (8 Ω load) (Marine) 350 mW typical (8 Ω load) (PMR)	500 mW typical (8 Ω load)		400 mW typical (32 Ω load)		200 mW (8 Ω load)
	Internal SP @ 1 kHz	–	–		800 mW typical (32 Ω load)		350 mW typical (8 Ω load)
RF output power		1 W	1 W		1 W		2 W/1 W
Operating time (approx.)		19 hours (with BP-227AX)*1	16.5 hours (with BP-227AXD)*2		21.5 hours (with BP-277EX)*2	19 hours (with BP-277EX)*2	Specified as IMO Res. MSC.149(77)
Waterproof protection		IPX7 (1 m depth/30 min.)	IP67 (1 m depth/30 min.)		IP67 (1 m depth/30 min.)		Specified as IMO Res. MSC.149(77)
Integrated GNSS receiver		–	–		–		–
Float'n Flash		–	–		–		–

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. EN 300-086 and EN 301-166 for IC-F3202DEX, F4202DEX. 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 Fixed Mount Transceivers and Satellite PTT

VHF FIXED MOUNT TRANSCEIVERS

	IC-M605EURO	IC-M506GE	IC-M423GE	IC-M400BBE	IC-M330GE	GM600
Frequency range	TX: 156.000–161.600 MHz RX: 156.000–163.425 MHz CH 70: 156.525 MHz AIS 1: 161.975 MHz AIS 2: 162.025 MHz	TX: 156.000–162.000 MHz RX: 156.000–163.425 MHz CH 70: 156.525 MHz AIS 1: 161.975 MHz AIS 2: 162.025 MHz	Tx: 156.000–161.450 MHz Rx: 156.000–163.425 MHz CH 70: 156.525 MHz	Tx: 156.000–161.450 MHz Rx: 156.000–163.425 MHz CH 70: 156.525 MHz	TX: 156.000–162.000 MHz RX: 156.000–163.425 MHz CH70: 156.525 MHz	TX: 156.025–161.600 MHz RX: 156.025–162.000 MHz CH70: 156.525 MHz
Power supply 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)	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)*1 12 V DC (10.8–15.6 V DC)*2 (negative ground)
Dimensions (projections not included; W x H x D)	274 x 114 x 121.5 mm	178.9 x 113.9 x 113.8 mm	180 x 82 x 119.9 mm	IC-M400BBE 216 x 79 x 125 mm HM-195B/SW 675 x 144.5 x 37 mm	156.5 x 66.5 x 110.1 mm	274 x 114 x 121.5 mm
Weight (approx.)	1.5 kg	1.4 kg	1.2 kg	IC-M400BBE 830 g HM-195B/SW 400 g	730 g	1.6 kg
Current drain	Transmit (High)	6.0 A max.	5.5 A	5.5 A	5.5 A	3.3 A*1
	Max. audio	8.0 A max. (Ext SP, RX hailer ON, HM-229x3)	5 A typ. (Ext SP, RX hailer ON) 1.5 A (Internal SP)	5 A typ. (Ext SP, RX SP ON) 1.5 A (Internal SP)	3.5 A	2.0 A*1
Sensitivity	Main (20 dB SINAD) DSC (1% BER)	–5 dBμ emf typical –3 dBμ emf typical	–5 dBμ emf typical –4 dBμ emf typical	–5 dBμ emf typ. –4 dBμ emf typ.	–5 dBμ emf typical –5 dBμ emf typical	–7 dBμ emf typical –7 dBμ emf typical
Intermodulation	Main DSC (1% BER)	More than 75 dB More than 73 dBμ emf	More than 75 dB More than 68 dBμ emf	More than 68 dB More than 68 dBμ emf	More than 68 dB More than 68 dBμ emf	More than 75 dB 73 dBμ emf
Audio output power (10% dist./4 Ω load)		More than 15 W (External speaker)	15 W (External speaker)	More than 10 W (External speaker)	More than 2 W (HM-195B/SW) More than 10 W (RX Speaker)	10 W (External speaker) 2 W (Internal speaker)
RF output power		25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W	25 W/1 W
NMEA interface	NMEA 2000, NMEA 0183/0183-HS x 2	NMEA 2000/0183	NMEA 0183	NMEA 0183	NMEA 0183	IEC 61162-1
AIS Receiver	Built-in	Built-in	–	–	–	–

Measurements made in accordance with EN 301 025-2, -3 for IC-M605EURO, IC-M506GE, IC-M423GE, IC-M400BBE and IC-M330GE. EN301 925 for GM600.

*1 With PS-310 (#01). *2 With PS-310 (#02).

AIS TRANSPONDER

		MA-500TR
Frequency range		161.975, 162.025 MHz (default) 156.025–162.025 MHz
Type of emission		16K0GXW (GMSK)
Power supply requirement		12.0 V DC (9.6–15.6 V)
Dimensions (projections not included; W x H x D)		165 x 110 x 123 mm
Weight (approx.)		1.0 kg
Current drain	Transmit	1.5 A
	Receive	0.7 A
Sensitivity (20% error rate)		–110 dBm
Intermodulation rejection		65 dB
RF output power		2 W

Measurements made in accordance with IEC62287-1.

SATELLITE PTT RADIO

		IC-SAT100
Dimensions (W x H x D; projections are not included)		57.8 x 135 x 32.8 mm
Weight (Approximate)		360g (with BP-300 and FA-S102U)
Display (W x H, approximate)		33 x 27 mm (viewing area)
Operational temperature range		−30°C to +60°C
Audio output power (5% dist./8Ω load)	Internal speaker	1500 mW typical
	External speaker	1000 mW typical
Operating time (Approximate)		14.5 hours (TX : RX : standby = 5 : 5 : 90)
Waterproof protection		IP67 (1 m depth/30 min.)
Integrated GPS receiver		✓

MF/HF FIXED MOUNT TRANSCEIVER

		GM800
Frequency range		TX: 1.6–27.5000 MHz (ITU marine channels) RX: 0.5–29.9999 MHz (continuously) DSC: 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045 MHz
Current drain	Tx/Rx	J3E (USB/LSB)*, H3E* (AM), J2B* (AFSK), F1B (FSK), A1A* (CW)
	DSC	F1B
Power supply requirement		24 V DC (21.6–31.2 V DC) (floating ground)
Dimensions (projections not included; W x H x D)	Main unit	367 x 95 x 260 mm
	Controller	274 x 114 x 86 mm
Weight (approx.)	Main unit	8.6 kg
	Controller	760 g
Current drain	Transmit (Max. power)	Less than 20 A (at 1.1 kHz and 1.7 kHz two tones)
	Receive (Max. audio)	Less than 3.0 A
Sensitivity	J3E, A1A (20 dB SINAD)	30 dBμV emf (0.5–1.599 MHz) 16 dBμV emf (1.6–3.999 MHz) 11 dBμV emf (4.0–29.999 MHz)
	J2B, F1B (1% error rate)	3 dBμV emf (1.6–2.099 MHz) 0 dBμV emf (2.1–27.5 MHz)
	H3E (20 dB SINAD)	44 dBμV emf (0.5–1.599 MHz) 30 dBμV emf (1.6–3.999 MHz)
	DSC (J2B) (1% error rate)	0 dBμV emf
Audio output power		4 W with 4 Ω load (External speaker) 2 W with 8 Ω load (Internal speaker)
RF output power		150 W PEP into 50 Ω (at radio terminal) 125 W (4.0–27.5 MHz) (at tuner-output) 85 W (1.6–3.999 MHz) (at tuner-output)

Measurements made in accordance with EN300 373-1 for GM800.

* Receive only.

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

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

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