




































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)	


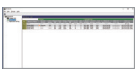







	DESKTOP CHARGERS				MULTI-CHARGERS				AC ADAPTERS
MODEL NAME	BC-226 Connectable type. Connects up to six BC-226 units. 	BC-227 Rapid charger 	BC-119N*3 Rapid charger 	BC-152N*3 Regular charger 	BC-214*4 Rapid charger 	BC-197*5 Rapid charger 	BC-238*6 Rapid charger 	BC-121N*3 Rapid charger 	BC-123SE/SUK 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 IC-F61 ATEX			✓ (Use with AD-100)	✓				✓ (Use with AD-100)	
IC-F3202DEX IC-F4202DEX									✓ (Use with BC-212EX)
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 IC-F61 ATEX	✓ (Use with BC-119N)	✓ (Use with BC-152N)	✓ (Use with BC-121N)			✓ (Use AD-100 with BC-119N/121N)			
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

MODEL NAME	DC POWER CABLES	READER SOFTWARE	SPEAKER-MICROPHONES						
	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									

MODEL NAME	SPEAKER-MICROPHONES		TIE-CLIP MICROPHONE	HEADSETS			PTT SWITCH CABLE	EARPHONES	
	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 
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.

MODEL NAME	EARPHONES			ACC ADAPTERS		BELT CLIPS			
	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 	MB-98 MB-103/103Y MB-133 MBB-3 Alligator 
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)

MODEL NAME	BELT HANGERS			CARRYING CASES		ANTENNAS			
	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-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)				 (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	EH-15B 2.5 mm plug
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-vehicle 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 Waterproof	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 x H x D)		57.0 x 144.6 x 38.5 mm	52.5 x 125 x 30 mm	59.7 x 140.5 x 38.7 mm	56.6 x 134.2 x 30.5 mm	56 x 92 x 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 x H x D)		62 x 97 x 39 mm	56 x 97 x 36.4 mm (with BP-227AXD)		63 x 144 x 50 mm (with BP-277EX)		65 x 145 x 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 (32Ω load)		200 mW (8 Ω load)
	Internal SP @1 kHz	–	–		800 mW typical (32Ω 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	1 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 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 (1% BER) 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 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)	More than 2 W	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	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.

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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