

SPECIFICATIONS

GENERAL		
Frequency range	TX RX DSC AIS1, 2 ⁴¹	156.025–161.425 MHz* ³ 156.300–161.925 MHz* ³ 156.525 MHz 161.975, 162.025 MHz
Usable channels		INT, USA, ATIS* ² channels
Type of emission		16K0G3E (FM), 16K0G2B (DSC) 16K0G2B (AIS)* ³
Power supply requirement		3.8 V DC (10.8–15.6 V DC)
Current drain	TX 25 W output RX Max. audio	5.0 A 4.0 A (with HM-195)
Operating temperature range		–20°C to +60°C; –4°F to +140°F
Antenna impedance		50 Ω
Weight (approximate)		750 g; 1.7 lb (Not including microphone)
TRANSMITTER		
Output power (at 13.8 V DC)		25 W, 1 W
Max. frequency deviation		±5 kHz
Frequency error		±0.5 kHz
Spurious emissions		Less than 0.25 µW (at 25 W)
Residual modulation		More than 40 dB
Adjacent channel power		More than 70 dB
RECEIVER		
Sensitivity (at 20 dB SINAD) DSC (1% BER)		–5 dBµ –1 dBµ emf
Adjacent channel selectivity DSC (1% BER)		More than 75 dB More than 73 dBµ emf
Spurious response DSC (1% BER)		More than 75 dB More than 73 dBµ emf
Intermodulation DSC (1% BER)		More than 75 dB More than 68 dBµ emf
Hum and noise		More than 40 dB
Audio output power (at 10% distortion)		15 W typ. with a 4 Ω external speaker
Wireless LAN		
Wireless LAN standard		IEEE802.11 b/g/n
Authentication and Encryption		WEP (64/128 bit), WPA-PSK (TKIP), WPA2-PSK (AES)
Channels		1 to 13 (2.4 GHz band)* ⁴
Output power		Less than 10 mW/MHz

⁴¹ Only for the Integrated AIS version. ² Available depending on the transceiver version. ³ May differ depending on version. ⁴ May differ depending on the country of use. Measurements made in accordance with EN301 025-2, -3. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	Method	MIL 810 G	Procedure
Low Pressure	500.5		I, II
High Temperature	501.5		I, II
Low Temperature	502.5		I, II
Temperature Shock	503.5		I–C
Solar Radiation	505.5		I
Rain	506.5		I
Humidity	507.5		II
Salt Fog	509.5		–
Dust Blowing	510.5		I
Immersion	512.5		I
Vibration	514.6		I
Shock	516.6		I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.


Applicable IP Rating

Ingress Protection Standard	
Dust & Water	IP68 Dust-tight and waterproof protection
Supplied accessories:	
• Speaker-microphone, HM-205RB	• Mic ophone hanger
• DC power cable	• Mounting bracket kit

OPTIONAL ACCESSORIES

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

COMMANDMIC™



Supplied accessories

- OPC-1540, 6.1 m (20 ft) cable
- Microphone hanger
- Mounting base for connector

HM-195GB or HM-229B (Black) HM-195GW or HM-229W (White)

"Distress" button with HM-195 series. * HM-229 has no "Distress" button.

SPEAKER-MICROPHONE

HM-205RB
Same as supplied.

EXTENSION CABLES




OPC-1541 (6.1 m, 20 ft) For COMMANDMIC™
OPC-1000 (6.1 m, 20 ft) For HM-205RB

WIRELESS INTERFACE BOX



CT-M500
For NMEA 2000™ interface and Hailer/PA function. To connect to the IC-M510E via WLAN.

HORN SPEAKER




SP-37
Power rating: 30 W, Impedance: 4 Ω

VOICE SCRAMBLER UNIT

UT-112A
Total of 32 voice scramble codes available.

FLUSH MOUNT KIT




MBF-7

FRONT PANEL COVER




MBZ-1
Attach to protect from sunlight.

CLASS B AIS TRANSPONDER



MA-510TR
For transmitting own vessel AIS information.

REMOTE CONTROL SOFTWARE



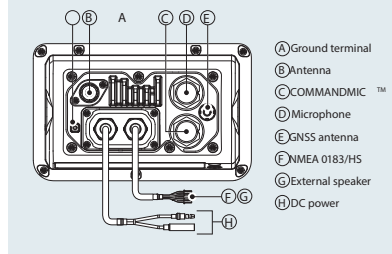
RS-M500*
iOS™/Android™ application for remote operation of the IC-M510E without DSC operation.

GNSS ANTENNA

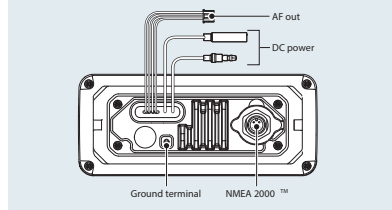
UX-241

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

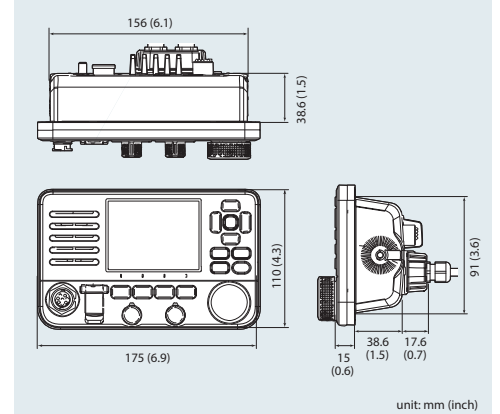
REAR PANEL VIEW



CT-M500 REAR PANEL VIEW



DIMENSIONS



IC-M510E Configuration Variations

	AIS Receiver
IC-M510E AIS (#25)	Integrated
IC-M510E (#15)	Not included