

IC-M510E



Class-D DSC VHF Marine Radio with WLAN Function



Integrated AIS Receiver*

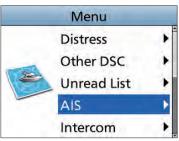


AIS plotter screen

With its integrated AIS receiver* or external NMEA sentence (third party AIS receiver, transponder), the IC-M510E can show realtime AIS vessel traffic information on the display. You can directly make an individual DSC call to selected AIS targets from the AIS screen.

* AIS receiver is not included depending on the transceiver version.

Wide Viewing Angle Colour TFT LCD



Menu screen

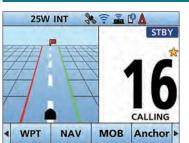
The colour TFT LCD provides nearly a 180-degree viewing angle. The wide display has high-resolution characters and function icons. The night mode screen ensures good readability in low light conditions.

New Sleek Design



The IC-M510E is slim (depth: 53.6 mm) and easy to install in your boat. It's all-new sleek design is suitable for either panel or trunnion mounting.

Simplified Navigation Function



fied waypoint or AIS target. You can assign up to 100 destinations as waypoints.

The Navigation function guides you to a speci-

Navigation screen

Panel mount example



VHF MARINE TRANSCEIVER IC-M510E

Night Mode

Optional COMMANDMIC™

HM-195GB HM-229B

Provides Clear, Loud Audio

The IC-M510E's internal speaker enhances the received audio. The waterproof speaker provides superior sound quality with a wide frequency range for powerful, clear audio.

Interface BOX for NMEA 2000™ and Hailer



CT-M500

The optional CT-M500 wireless interface box provides NMEA 2000™ connectivity and Two-way Hailer/PA function. The CT-M500 and the radio can be connected through WLAN. This separate interface box option allows for flexibility in positioning the unit closer to the NMEA network connection point.

And More

- · Active Noise Canceling
- NMEA 0183/HS connectivity, NMEA 2000™ (CT-M500 required)
- Integrated GNSS receiver (Selectable from either internal receiver or use optional UX-241 GNSS antenna)
- IP68 advanced waterproofing (1 m depth of water for 60 minutes)
- Automatic Foghorn function (CT-M500 required)
- Voice Scrambler with optional UT-112A
- AquaQuake[™] prevents audio degradation from a water-logged speaker
- · Supplied speaker-microphone, HM-205RB can be connected to the rear panel
- External speaker connection
- Controlled with COMMANDMIC™ HM-195 or HM-229 series
- Supports 4-digit channels

SPECIFICATIONS

GENERAL		
Frequency range TX RX	156.025–161.425 MHz* ³ 156.300–161.925 MHz* ³	
DSC	156.525 MHz	
AIS1, 2*1	161.975, 162.025 MHz	
Usable channels	INT, USA, ATIS*2 channels	
Type of emission	16K0G3E (FM), 16K0G2B (DSC) 16K0G2B (AIS)*1	
Power supply requirement	13.8 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	

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

Chandaud	MIL 810 G		
Standard	Method	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
- · DC power cable
- · Mounting bracket kit

OPTIONAL ACCESSORIES

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







VOICE SCRAMBLER

UNIT

9com



For HM-205RB

WIRELESS INTERFACE BOX



CT-M500

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

COM













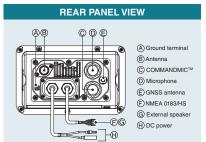


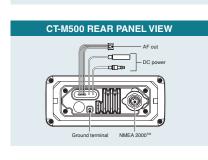
For transmitting own vessel AIS information.

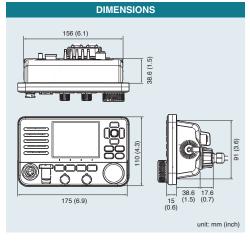


iOS™/Android™ application for remote operation of the IC-M510E without DSC operation.

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







IC-M510E Configuration Variations

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

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