

IC-M510E EVO



Class-D DSC VHF Marine Radio with Smart Device Remote Control



Award Winning Sleek Design iF DESIGN AWARD 2022

The IC-M510E series is a winner in the world-renowned iF DESIGN AWARD 2022. The radio can be installed in either panel or trunnion mounting and has a sleek design that looks great on a boat's black glass cockpit dashboard.



Panel mount example

Built-in NMEA 2000™

The NMEA 2000™ network provides plug-and-play data communication to inter-connect with other marine equipment such as an MFD (Multi-Function Display.) The radio can send GNSS (GPS) position, AIS*¹, DSC call, and radio channel data to other equipment.



NMEA 2000™ in/out

Integrated AIS Receiver*1

With its integrated AIS receiver*1 or external NMEA sentence*2, the IC-M510E EVO can show real-time AIS vessel traffic information on the display. You can directly make an individual DSC call to selected AIS targets from the AIS screen.



AIS plotter screen

Loud 25 W Two-Way Hailer/20 W RX Hailer

When connected to the optional SP-37 speaker horn, you can talk with the crew on the deck or shore via the radio's microphone and hear any reply via the horn speaker. The RX hailer function enables you to keep watch of the radio traffic on the deck or tower through the hailer speaker. You can also sound foghorn patterns from the hailer speaker. In addition, the built-in waterproof speaker enhances the received audio and provides powerful, clear audio.



Built-in Class D DSC and Distress Button

With just a press of the "DISTRESS" button, the built-in DSC (Digital Selective Calling) system can digitally transmit distress information to the Coast Guard and/or other vessels. The DSC watch function continuously monitors the DSC channel (Ch. 70) for added safety and security.



DISTRESS button

Wide Viewing Angle Colour TFT LCD

The colour TFT LCD provides nearly a 180-degree viewing angle. The wide display has high-resolution characters and function icons. Just hold down the DISP key to switch the Night mode screen which ensures good readability in low light conditions.

Other Features

- Simplified Navigation function
- Combined with MA-510TR supports safer navigation
- Active Noise Canceling technology
- Integrated GNSS receiver (selectable from either internal GPS antenna or use optional UX-241 GNSS antenna)
- IP68 advanced waterproofing (1m depth of water for 60 minutes)
- Voice Scrambler with optional UT-112A
- AquaQuake[™] water draining function
- Supplied HM-205RB speaker-microphone can be connected to either the front or rear panel to meet to the user's requirement
- External speaker connection
- Optional HM-195 CommandMic[™] are available
- Supports 4-digit channels
- Supplied waterproof flash mount gasket for panel mount

IC-M510E EVO

SPECIFICATIONS

GENERAL		
Frequency range*3 TX RX	156.025 ~ 161.425 MHz 156.500 ~ 162.000 MHz*	
	* 156.500 ~ 162.025 MHz for China	
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	12.0 V DC (10.8 V ~ 15.6 V DC)	
Current drain TX 25 W output (at 13.8 V DC) RX Max. audio	5.0 A 1.6 A (IC-M510E EVO only) 7.3 A (with ext SP, RX hailer, and HM-195)	
Operating temperature range	–20°C ~ +60°C	
Antenna impedance	50 Ω	
Dimensions (W \times H \times D)	175 × 110 × 53 mm	
Weight (approximately)	750 g (not including microphone)	
TRANSMITTER		
Output power (at 12.0 V DC)	25 W, 1 W	
Max. frequency deviation	±5 kHz	
Frequency error	Less than ±0.5 kHz	
Spurious emissions	Less than 0.25 μW	
Residual modulation	More than 40 dB	
Adjacent channel power	More than 70 dB	
RECEIVER		
Sensitivity (at 20 dB SINAD) DSC (1% BER)	−5 dBµ emf typical−1 dBµ emf typical	
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 with 4 Ω)	More than 15 W (external speaker) 20 W typical (RX Hailer) 25 W typical (Hailer)	
Wireless LAN		
Wireless LAN standard	IEEE802.11 b/g/n	
Authentication and Encryption	WEP (64/128 bit), WPA-PSK (TKIP) WPA2-PSK (AES)	
	1 ~ 13 (2.4 GHz band)*4	
Channels	1 - 10 (2.4 Ci iz baila)	

*¹ 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	MIL 810 G	
	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

IC-M510E EVO Configuration Variations

	AIS Receiver
IC-M510E EVO AIS	Integrated
IC-M510E EVO	Not included

OPTIONAL ACCESSORIES

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





SPEAKER-

















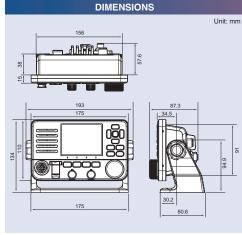


iOS™/Android™ application for remote operati of the IC-M510E EVO without DSC operation

Supplied accessories:

- Speaker microphone, HM-205RB
- Microphone hanger Mounting bracket kit · Flash mount gasket
- DC power cable





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