IC-M510 **VHF MARINE TRANSCEIVER**

SPECIFICATIONS

GENERAL		
Frequency range TX RX DSC AIS1, 2*1	156.025–157.425 MHz 156.050–163.275 MHz 156.525 MHz 161.975, 162.025 MHz	
Usable channels	USA, CAN, INT, WX channels	
Type of emission	16K0G3E (FM), 16K0G2B (DSC) 16K0GXW (AIS)*1	
Power supply requirement	13.8 V DC (11.7-15.9 V DC)	
Current drain TX 25 W output RX Max. audio	5.0 A 3.3 A	
Operating temperature range	-20°C to +60°C; -4°F to +140°F	
Antenna impedance	50 Ω	
Weight (approximate)	730 g; 1.6 lb (Not including microphone	
TRANSMITTER		
Output power (at 13.8 V DC)	25 W, 1 W	
Max. frequency deviation	±5 kHz	
Frequency tolerance	±0.5 kHz	
Spurious emissions	Less than -70 dBc (at 25 W)	
Residual modulation	More than 40 dB	
Adjacent channel power	More than 70 dB	
RECEIVER		
Sensitivity (at 12 dB SINAD) DSC (1% BER)	0.32 μV typical 0.89 μV 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)	More than 15 W 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)*2	
Output power	Less than 10 mW/MHz	

Measurements made in accordance with TIA/EIA 603. All stated specifications are subject to change without notice or obligation.

Applicable IIS Military Specifications

Applicable 0.3. Willtary 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

Dust & Water | IP68 Dust-tight and waterproof protection

Supplied accessories:

• Speaker microphone, HM-205RB • Microphone hange Mounting bracket kit

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







OPC-1000 For HM-205RB

WIRELESS INTERFACE BOX



For NMEA 2000™ interface and Hailer/PA functi To connect to the IC-M510 via WLAN.

Power rating: 30 W,

mpedance: 4 Ω

HM-195B/SW are also available

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



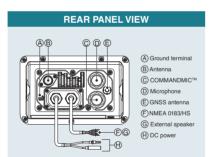


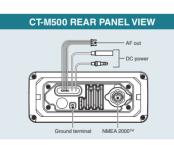


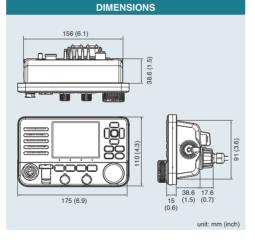




* Free download Android™/iOS™ app. Download on Google Play™/the App Store.







IC-M510 Configuration Variations

	AIS Receiver	
IC-M510 AIS	Integrated	
IC-M510	Not included	

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Your local distributor/dealer:





Printed in Japan



IC-M510



Class-D DSC VHF Marine Radio with WLAN Function

Radio Control & Intercom via Your Smart Device

Use the RS-M500 app (for iOS™/Android™) to remotely control the IC-M510 through WLAN. Up to three smart devices can be used as a wireless microphone or remote controller in substitute for the COMMANDMIC™. Intercom function between your smart device and the radio is also available.









Optional COMMANDMIC™

HM-195GB

Smart device

Deck

Integrated AIS Receiver*



AIS plotter screen

With its integrated AIS receiver* or external NMEA sentence (third party AIS receiver, transponder), the IC-M510 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 receiver is not included depending on the transceiver version.

Wide Viewing Angle Color TFT LCD



The color 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.

Menu screen

Provides Clear, Loud Audio

The IC-M510's internal speaker enhances the received audio. The waterproof speaker provides superior sound quality with a wide frequency range for powerful, clear audio.

VHF MARINE TRANSCEIVER IC-M510

Interface BOX for NMEA 2000™ and Hailer



The optional CT-M500 wireless interface box provides NMEA 2000™ connectivity and Twoway 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
- Integrated GNSS receiver (Selectable from either internal receiver or use 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

Night Mode

- 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-195GB/GW
- Supports 4-digit channels

New Sleek Design



The IC-M510 is slim (depth: 53.6 mm; 2.1 in) and easy to install in your boat. It's all-new sleek design is suitable for either panel or trunnion mounting.

Simplified Navigation Function



The Navigation function guides you to a specified waypoint or AIS target. You can assign up to 100 destinations as waypoints.

CT-M500