VHF MARINE TRANSCEIVER

SPECIFICATIONS

	-	
GENERAL		
Frequency range TX BX	156.025–157.425 MHz	
DSC	156.050–163.275 MHz 156.525 MHz	
AIS1, 2*1	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	More than 15 W with a 4 Ω	
(at 10% distortion)	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	

^{*1} Only for the Integrated AIS version. *2 May differ depending on the country of use. Measurements made in accordance with TIA/EIA 603. All stated specifi-cations 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	-		
Duct Blowing	E10 E	I		

516.

Also meets equivalent MIL-STD-810-C, -D, -E and -F Applicable IP Rating

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Shock

Ingress Protection Sta

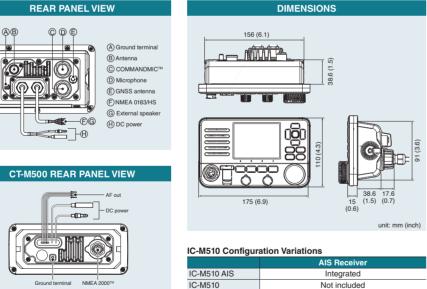
Dust & Water IP68 Dust-tight and waterproof protection

Supplied accessories:		
Speaker microphone, HM-205RB	 Microphone hanger 	
 DC power cable 	 Mounting bracket kit 	



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

IC-M510



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Printed in Japan

IC-M510

VHF MARINE TRANSCEIVER



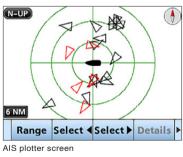
Class-D DSC VHF Marine Radio with WLAN Function

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.



Integrated AIS Receiver*



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.

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.

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

Simplified Navigation Function



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

The Navigation function



WLAN

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Smart device

VHF MARINE TRANSCEIVER IC-M510

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.

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.

CT-M500

MULAN

Front Deck

0-0-7

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Smart device

Bed

Room



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)

HM-195GB

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