

Class B AIS Transponder with Navigation Function and NMEA 2000™ Connectivity

New Navigation function guides you to the specified waypoints (maximum 100 waypoints are selectable) or AIS targets

Wide viewing angle and high-luminance 4.3-inch color IPS TFT display readable under direct sunlight

NMEA 2000™, NMEA 0183/-HS connectivity

Compatible with both 12 V and 24 V power sources

Man OverBoard (MOB) function and navigation to the MOB waypoint

AIS data can be output from a USB cable connector on the rear panel*

* A third party application and a connection cable are required.

Friends function displays pre-stored Friend ships in yellow on the display

Collision Alarm function sounds an alarm when the AIS target is closer than the set CPA/TCPA values

Anchor watch function sounds an alarm when your vessel is at anchor, and has drifted

Multi-lingual user interface (English, French, Indonesian, Spanish and Vietnamese)

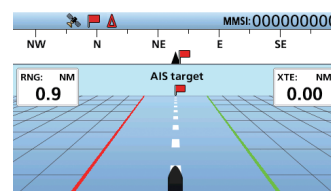
Silent mode switches off the AIS transmitter for security and privacy

You can pick up AIS targets on the display and send Individual DSC Calls*

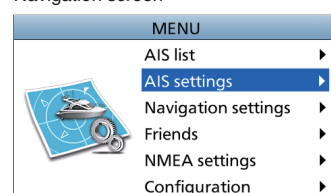
* A compatible Icom VHF radio (IC-M605/EURO or IC-M506/GE) is required.



MA-510TR and supplied GPS antenna



Navigation screen



Menu screen



Night mode screen (standby)

SPECIFICATIONS

GENERAL		
Frequency coverage		161.975 MHz and 162.025 MHz
Type of emission		16K0GXW (GMSK)
Antenna impedance		50 Ω (unbalanced)
Intermediate frequency	AIS 1	1st: 21.700 MHz, 2nd: 450 kHz
	AIS 2	1st: 30.150 MHz, 2nd: 450 kHz
Operating temperature range		-20°C to +60°C, -4°F to +140°F
Power supply requirement		Negative ground: 12 V or 24 V DC nominal (9.6 to 31.2 V)
Current drain (at 12 V DC)		TX: 1.5 A, RX: 0.7 A
Dimensions (approximate)		166.2 (W) $\times$ 110 (H) $\times$ 80 (D) mm, (Projections not included)
Weight (approximate)		6.5 (W) $\times$ 4.3 (H) $\times$ 3.1 (D) inch
		700 g, 1.5 lb
TRANSMITTER		
Output power		2 W
Modulation		GMSK
Conducted spurious emission		Less than -36 dBm (9 kHz-1 GHz)
		Less than -30 dBm (1 GHz-4 GHz)
RECEIVER (AIS)		
Sensitivity		Less than -110 dBm
Adjacent channel selectivity		More than -31 dBm
Spurious response		More than -31 dBm
Intermodulation		More than -36 dBm
Conducted spurious emission		Less than -57 dBm (9 kHz-1 GHz)
		Less than -47 dBm (1 GHz-4 GHz)
Blocking		More than -15 dBm (± 0.5 MHz- ± 5 MHz)
		More than -23 dBm (± 5 MHz- ± 10 MHz)
Co-channel		More than -111 dBm
RECEIVER (DSC)		
Frequency coverage		156.525 MHz
Type of emission		16K0G2B
Sensitivity		Less than -110 dBm
Adjacent channel selectivity		More than 70 dB
Spurious response		More than -34 dBm
Intermodulation		More than -39 dBm
Blocking		More than -20 dBm
GPS RECEIVER		
Received frequency		1575.42 MHz
Acquisition		72 ch (maximum)
Satellites		GPS, GLONASS
Differential satellites		WAAS, EGNOS, MSAS, GAGAN
Dimensions (approximate)		$\phi 96 \times 225$ (H) mm, $\phi 3.8 \times 8.9$ (H) inch
Weight (approximate)		700 g, 1.5 lb (including cable and mounting bracket)
Cable length (approximate)		10 m, 32.8 ft
DATA INTERFACE		
USB		VDM, VDO, ACA, ACS, ALR, TXT, GGA, GNS, GLL, GSA, GSV, RMC, VTG
NMEA 2000		1 port
NMEA 0183	Port 1	4800 bps IN/OUT, DSC, RMC, GGA, VTG, GSA, GSV, GBS, DTM, GNS, GLL
	Port 2	38400 bps OUT, VDM, VDO, ACA, ACS, ALR, TXT, GGA, GNS, GLL, RMC, VTG
	Port 3	4800 bps IN, GGA, GNS, GLL, RMC, VTG, GBS, DTM

All stated specifications are subject to change without notice or obligation.

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OPTIONS

MB-75 FLUSH MOUNT KIT



For flush-mounting the MA-510TR to a flat surface, such as a control panel.

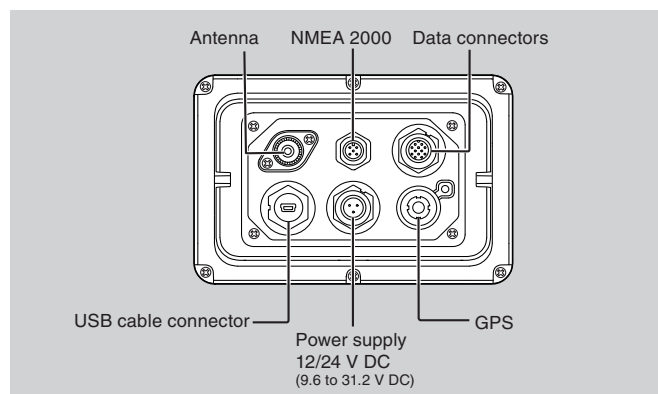
MB-132 FLUSH MOUNT KIT



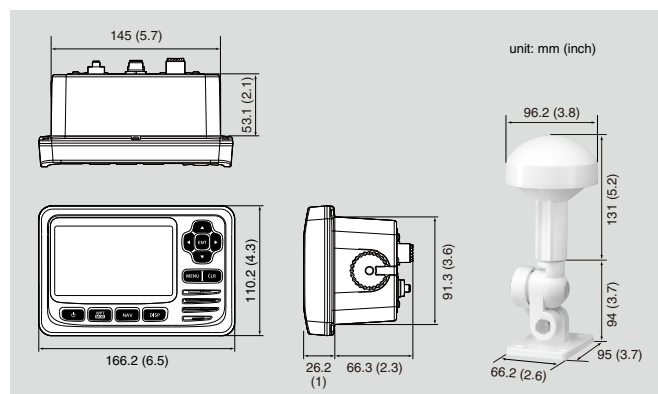
For flush-mounting the MA-510TR to a flat surface, such as a control panel.

CS-MA510TR
PROGRAMMING SOFTWARE

REAR PANEL VIEW



DIMENSIONS



Supplied accessories:

- GPS antenna
- DC power cable
- Mounting bracket kit