

**SIMRAD**

# SIMRAD MX510

## Professional Navigation System



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**IMO Type-Approved with RAIM enabled**

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**Choice to save and restore Waypoints, Routes and Configuration settings**

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**Multiple navigation data management options using LAN, USB or NMEA serial ports**

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**Convenient navigation equipment interface using LAN or NMEA ports**

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**High speed LAN interface for Master/Slave operation (with Integrity Monitoring) and up to 4 slave displays**

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### GPS/DGPS Receiver

The MX510 connects to the MX521A smart D/GPS antenna, MX525A black box D/GPS receiver and MX575A D/GPS Compass. It is backward compatible with the MX421, MX521 and MX525 smart antennas.

### Built-in Experience

The new MX510 is based on years of experience building professional navigators, starting with the MX100, MX400, and the MX420 families. Now the MX510 has a new 21st century PC-based technology that utilizes state of the art innovation in marine navigation.

### New Features

The MX510 gives you the flexibility to use it as single stand-alone navigation system or in Dual-Control mode with one or more slaves via high-speed LAN connectivity. You now have a choice to save and restore navigation data using either a USB memory stick or through the built-in flash RAM. Optional software updates can be made through the USB port.

### Designed for the Users

The MX510 is easy to use via the user-friendly MMI (Man Machine Interface) already renowned from its predecessors; this versatile navigation system offers extraordinary capabilities, with its multi-port interface that can be connected to ECDIS, ARPA, Gyro and other navigation information systems.

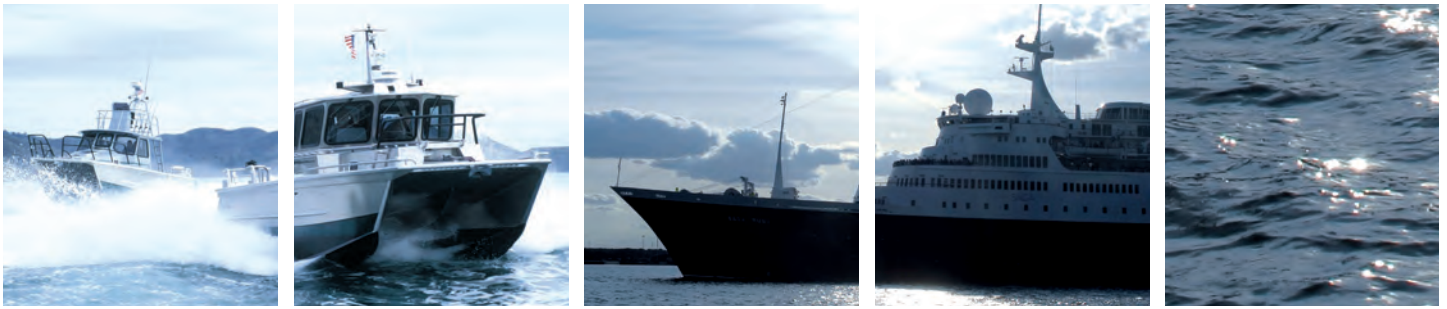
### DGPS

The MX510 with the MX521A or MX525A D/GPS is a type-approved marine navigator. Backward compatible with MX421 D/GPS antenna. It is also compatible with MX575 D/GPS Compass.



ISO 9001 :2000 Certified ^





**MX 510 General Features**

**Position Presentation:** Lat/Lon, UTM and User-Defined GRID (option)

**Position Resolution:** 4 decimal places (Lat/Lon)

**Waypoints:** 2000 waypoints with 20-character alphanumeric names and icon

**Routes:** 100 Routes with a dynamic number of waypoints; up to 2000 in all routes

**Special Features:** GOTO, Mark and MOB, 3-D Panoramic steering display, Tide, Speed Graph, Sun & Moon Almanac, and Wind Calculations.

**Display:** 5.7in. B/W STN, 320 x 240 pixels, back-lit LCD display

**Dual Control:** Master/Slave configuration or with up to 4 repeaters via high-speed LAN

**Languages:** English, Danish, Dutch, French, Finish, German, Italian, Spanish, Swedish (Some screens may still be in English)

**CPU:** Intel PXA255 XScale Processor

**Memory Size:** Data: 32MB RAM Program: 32MB (FLASH)

**Data Storage:** USB memory stick ( FAT32 format), or Built-in Flash RAM

**Power**

**Input Voltage:** 10.5 to 32 VDC, 10 watts

**Grounding:** Chassis isolated from electrical ground.

**Physical**

**Dimensions:** 292 x 150 x 105mm. (WxHxD)

11.5 x 5.9 x 4.2in.

**Weight:** 3.35 lbs

**Mounting:** Yoke or optional flush mount

**Electrical Interface**

**Ports:** 2-EN-61162-1 compliant user programmable I/O data ports and 2 I/O ports dedicated to smart antenna, black box receiver, USB and LAN ports

**NMEA Output:** NMEA 0183 V3.0: APA, APB, BOD, BWC, BWR, GGA, GLL, GRS, HSC, MSK, MSS, RMB, RMC, Rnn, RTE, SNU, VDR, VHW, VPW, VTG, WCV, WPL, XTE, ZDA, ZTG, GBS, HDT & ROT

**NMEA Input:** DPT, DBS, DBT, DBK, GLL, HCC, HDM, HDT, MMB, MWV, RMA, RMC, VHW, VTG, VWR, WPL, XDR, GSA, GST, GRS, GSV, GBS\*, RTE & ROT

**Pulse Log Emulation:** 1-30,000 pulses per NM

**Reprogramming:** field programmable using USB

**Connectors:**

1x -12-pin conn. for Power & Data

1x -10-pin conn. for Antenna

1x -8-pin conn. for Auxillary

2x USB

1x RJ45 LAN

**Environmental**

**Temperature:**

Operating: -15°C to +55°C

Storage: -30°C to +70°C

**Humidity:** IEC 60945 ed4

**Housing:** Splashproof

**Compliance:**

**IMO:** MSC 112 (73), IEC 61108-1, IEC 61162-1, IEC 60945 Ed. 4

**FCC:** Meets FCC Part 15 subpart B

**Type Approval:** CE, USCG, CCS, Wheelmark

\* MX Proprietary RAIM message (\$PMVXG, GBS)

DISTRIBUTED BY



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