

# MX 500

## Navigation Control and Display Unit

■ The MX 500 D/GPS Control and Display Unit meets the latest IMO Specification

\*ISO9001:2000 Certified



### ■ PROFESSIONALS CHOICE

The MX 500 is a type approved marine navigator with the MX 521, MX 421 or MX 525 D/GPS Antenna Sensors, including RAIM (Receiver Autonomous Integrity Monitoring). Compatible with MX 575 D/GPS Position & Heading Sat Compass.

### ■ NEW FEATURES

The MX 500 can be used as a Single Station or in Dual-Control mode with up to four slaves via new high-speed LAN interface. In addition:  
Network to Integrated Bridge Systems (IBS) or to other conventional equipment via LAN or NMEA serial ports.  
Save & restore Waypoints, Routes, and Configuration settings via USB or built-in Flash RAM.  
Optional software updates via LAN,

USB, or NMEA serial ports.

Multiple options for navigation data management via LAN, USB, or NMEA serial ports.

### ■ BUILT-IN EXPERIENCE

The new MX 500 is based on years of experience building professional marine navigators, starting with the MX100, MX 400, and the MX 420 families, and features the unique benefits of previous models, including:

User-friendly man-machine interface based on its renowned predecessors.

Integrity monitoring of dual D/GPS antenna installations for automated redundancy and reliability (BRIM).  
User selectable NMEA 0183 messages V1.5 to V2.3 for backward compatibility with the widest range of devices.

Multi-port interface that can be connected to ECDIS, ARPA, Gyro and other navigation information systems.

### ■ NEW FEATURES! ▼

*Option to save and restore Waypoints, Routes and Configuration settings using USB device or through the built-in Flash RAM*

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

*Convenient navigation equipment interface using LAN or NMEA ports*

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

*IMO Type Approved including RAIM (Receiver Autonomous Integrity Monitoring)*

*User selectable NMEA 0183 messages V1.5 to V2.3*



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# NORTHSTAR

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### MX 500 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:	3.8 inch B/W STN, 320 x 240 pixels, back-lit LCD display
Dual Control:	Master/Slave/Repeater configuration with up to 4 Slaves/Repeaters via high-speed LAN
Languages:	English, Danish, Dutch, French, Finnish, German, Italian, Spanish, Swedish
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.

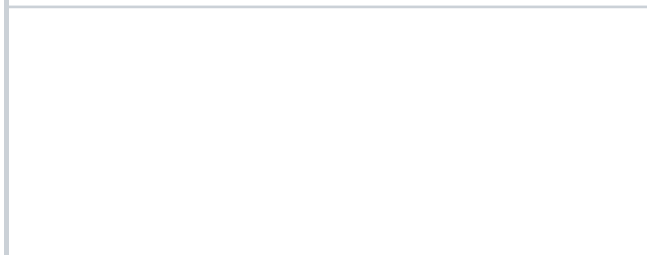
### PHYSICAL

Dimensions:	198 x 102 x 96 mm. (W.H.D.) 7.7 x 4.0 x 3.8 in. (W.H.D.)
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
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NMEA Output:	NMEA 0183 V2.3: 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, DTM, GNS, GST, GSV & WPT
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, DTM, GNS & WPT
Pulse Log Emulation:	1-30,000 pulses per NM
Reprogramming:	Field programmable flash ROM using the USB, serial or LAN ports
Connectors:	1x -12-pin connector for power and data 1x -10-pin connector for antenna 1x - 8-pin connector for auxiliary data 1x - RJ-45 for LAN 1x - USB (front)

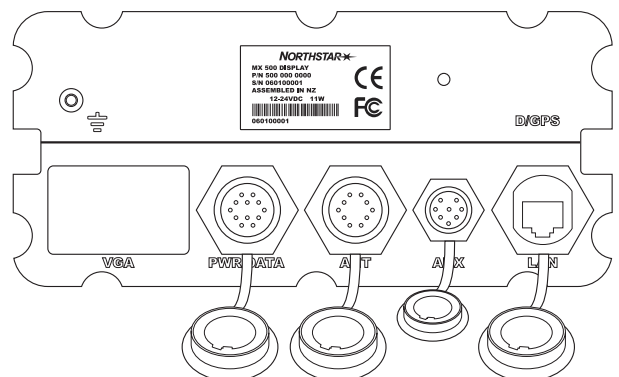
### ENVIRONMENTAL

Temperature:	Operating: -5°F to +131°F Storage: -22°F to +158°F
Humidity/EMI/Vibration:	IEC/EN 60945ed4
Housing:	Splash proof
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, Wheelmark

### GPS/DGPS RECEIVER

MX 500 connects To: MX 521, MX 525, MX 575, MX 421

\* BNT-ME Proprietary RAIM message (\$PMVXG, GBS)



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