

Marine GPS

MX420... A New Generation Of Type-Approved Navigation Systems



The New **MX420** Navigation System combines the very latest achievements in both GPS and Beacon Receiver Technology, building on generations of groundbreaking product.

The combination of the MX420 Control & Display unit with the MX421 or MX421B Smart Antenna enables you to create a flexible system to meet any demands.

The **MX420/2** with the **MX421 GPS Smart Antenna** is an attractively priced type-approved Commercial Marine Navigator with accuracy better than 3 meters!

When using the **MX421B DGPS Smart Antenna** you gain the Integrity Monitoring features of the Marine Beacon System and your quality assured accuracy will be better than 1 meter.

The **MX420/3** is the smartest and most versatile GPS Navigation System in the world today. It offers extraordinary capabilities with its eight serial ports connected to ECDIS, ARPA, Gyro and other information systems. It can be configured as a single or as a dual redundant system, and is easily upgraded to provide fully compliant AIS functionality.



MX420 Smart, Accurate, Affordable, And Upgradeable.

General Features

Position Presentation:	Lat/Lon, UTM and Loran-C. Option for user defined Datum and Grid
Position Resolution:	4 decimal places (Lat/Lon)
Waypoints:	2000 waypoints with 20 character alphanumeric names and icons
Routes:	100 routes with a dynamic number of waypoints; up to 2000 in all routes
Special Features:	Tide program, Speed Graph, Sun & Moon Almanac, Wind Calculations, GOTO Feature Mark, and MOB feature 3-D Panorama Display
Display:	True sunlight readable 240 x 128 pixel back-lit, B/W LCD display
Dual Control:	MX420/BR, Dual Head System: Master is MX420/8; Slave is either MX420/2 or MX420/8. MX420BRIM, Dual Head - Integrity Monitor System: Two complete systems (MX420/8 with MX421B), operating in dual station mode. If the current Master shows degraded performance the software automatically selects the other unit as the new Master.
Languages:	Danish, Dutch, English, French, Finnish, German, Italian, Spanish, Swedish.

Power

Input Voltage:	10.5 to 32 VDC, 10 watts
Grounding:	Chassis isolated from electrical ground

Physical

Dimensions:	271 x 145 x 53 mm. (W.H.D)
Mounting:	Yoke and flush mounts included

Electrical Interface

Ports:	MX420/2 has 2 and the MX420/8 has 8 bi-directional NMEA 0183 ver.2.2 ports. One can be configured as RS232 port. There are two additional ports for the connection of the MX421 or MX421B Smart Antenna.
NMEA Input:	DPT, DBS, DBT, DBK, GLL, HCC, HDM, HDT, MMB, MWV, RMA, RMC, VHW, VTG, VWR, WPL, XDR.
NMEA Output:	APA, APB, BOD, BWC, BWR, GGA, GLL, GRS, GSA, GSV, HSC, MSK, MSS, RMB, RMC, R01, RTE, SNU, VDR, VHW, VPW, VTG, WCV, WPL, XTE, ZDA, ZTG.
Pulse Log Emulation:	1 - 30,000 pulse per NM
Reprogramming:	Field programmable flash ROM

Connectors

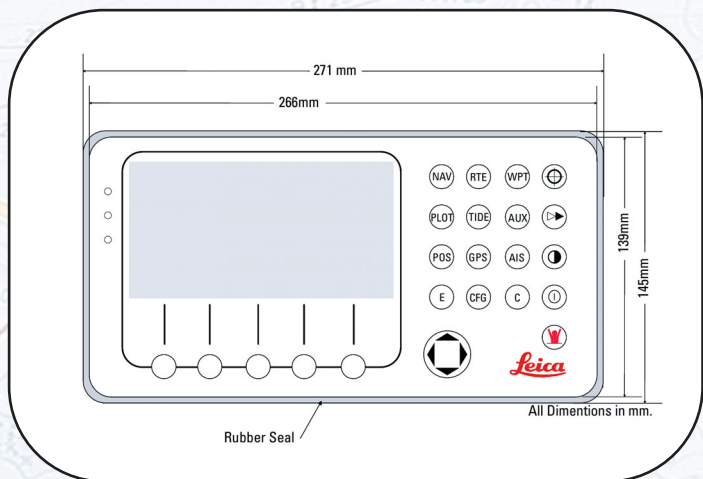
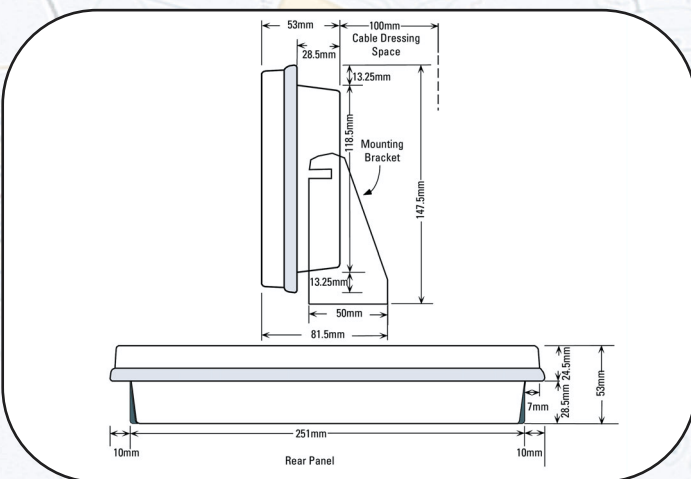
MX420/2 has one, and MX420/8 three (Liang-Tei) eighteen pin connectors for interface and power. Interface cables are two meters and are unterminated.

Environmental

Temperature:	
Operating:	-15° to +55° C
Storage:	-30° to +70° C
Humidity:	MIL-STD 810E, 100% for 30 days at 24° C
Water Resistance:	Splash Proof
Applicable Specifications:	IEC 945 (ver 3), FTZ, FCC, EN55022 (class B), EN50081-1 and EN50082-1, CE-mark, Wheelmark.

GPS - DGPS Receiver

The MX420/2 and MX420/8 connect to the MX421 and MX421B Smart Antennas



Denmark Tel: +45 44 54 03 00 Fax: +45 44 54 03 30
 Singapore Tel: +65 776 9318 Fax: +65 774 7145
 USA 23868 Hawthorne Blvd., Torrance, CA 90505-5908
 Tel: (310) 791-5300 Fax: (310) 791-6108

www.leica-geosystems.com

Busse-Yachtshop.de
 Burkamp 6
 24220 Flintbek bei Kiel

Tel: 04347 9082 34
 Fax: 04347 9082 35
 info@busse-yachtshop.de



Total Quality Management
 Our commitment to total customer satisfaction

US 5/01 Leica reserves the right to make changes in its products and specifications without notice.