E900
Installation manual

Revision 1

marine.lxnav.com

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1 Important Notices

Information in this document is subject to change without notice. LXNAV reserves the right to change or improve their products and to make changes in the content of this material without obligation to notify any person or organization of such changes or improvements.

A Yellow triangle is shown for parts of the manual which should be read very carefully and are important when operating the E900.

Notes with a red triangle describe procedures which are critical and may result in loss of data or any other critical situation.

A bulb icon is shown when a useful hint is provided to the reader.

1.1 Limited Warranty

This product is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, LXNAV will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts and labour, provided that the customer pays for shipping costs. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alterations or repairs.

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To obtain warranty service, contacts your local LXNAV dealer or contact LXNAV directly.

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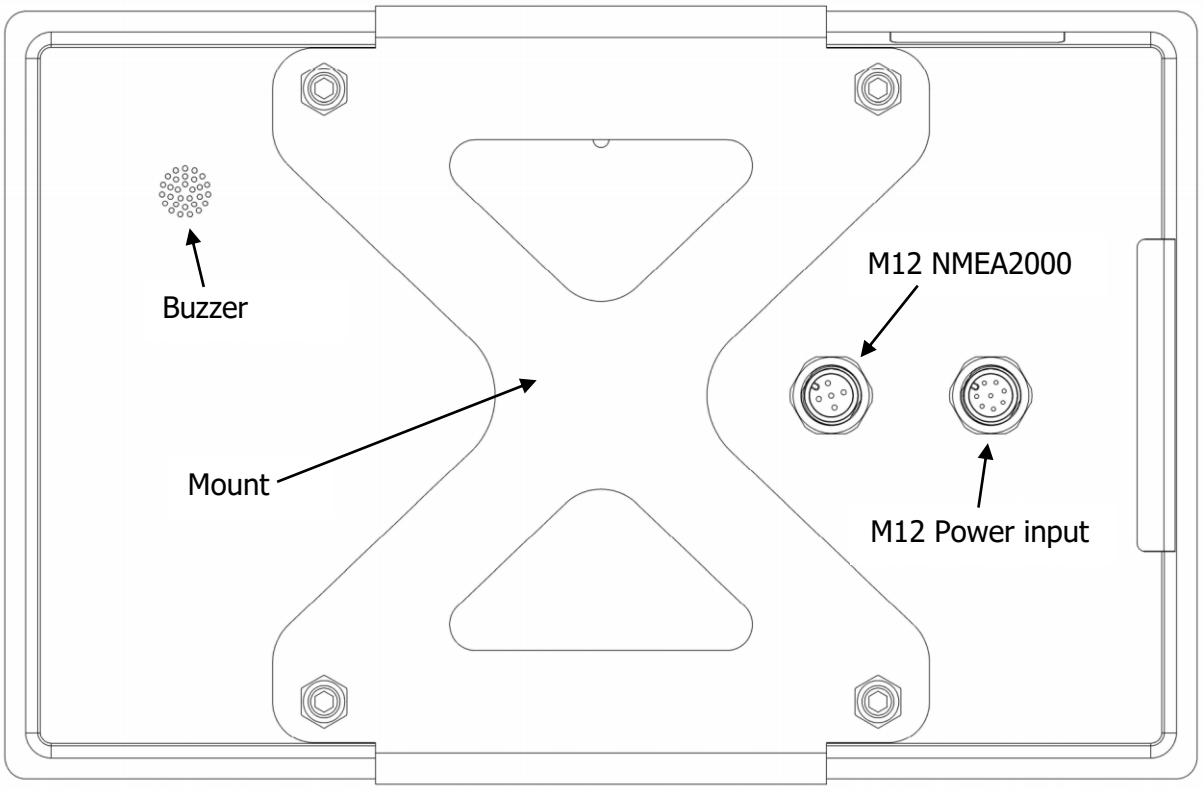
1.2 Packing Lists

- E900
- E900 holder
- Mounting material
- Installation and user's manual
- Power supply cable
- Screen cover

2 Technical Data



2.1 Connections

2.1.1 M12 NMEA2000 male connector pinout

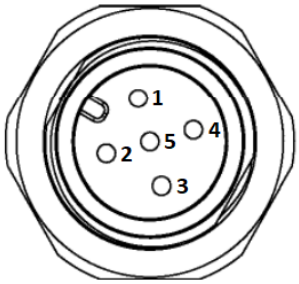


Figure 1: NMEA2000 connector pinout (male)

Pin number	Description
1	**Shield**
2	N.C.
3	**Ground**
4	**CAN H**
5	**CAN L**

2.1.2 M12 Power connector

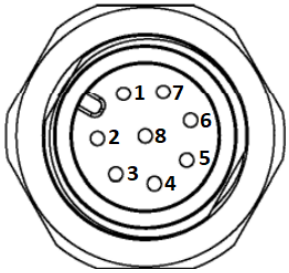


Figure 2: Power male connector pinout (male)

Pin number	Description
1	N.C.
2	N.C.
3	N.C.
4	N.C.
5	**12V (Power)**
6	N.C.
7	N.C.
8	**GND**

2.2 General specifications

Parameter	Condition	Min	Typ	Max	Unit
Operating supply voltage(1)		8	12	28	V
Current consumption(1)			750		mA
Load equivalent number			0		LEN
Operating temperature		-20		+60	°C
Storage temperature		-30		+85	°C
Recommended humidity		0		95	RH
Weight			650		g
Housing length			149		mm
Housing width			232		mm
Ingress Protection			IPX6		
LCD brightness(2)			1300		NITS
LCD diagonal size			9		Inch
LCD horizontal resolution			1024		pixel
LCD vertical resolution			600		pixel
LCD color resolution			64k		Colors
Integral GPS receiver (uBlox) (3)			56		Chan.

Note1: Supplied via 8 pin M12 connector
Note2: Automatically adjustable
Note3: Possibility to add a Smart GPS antenna

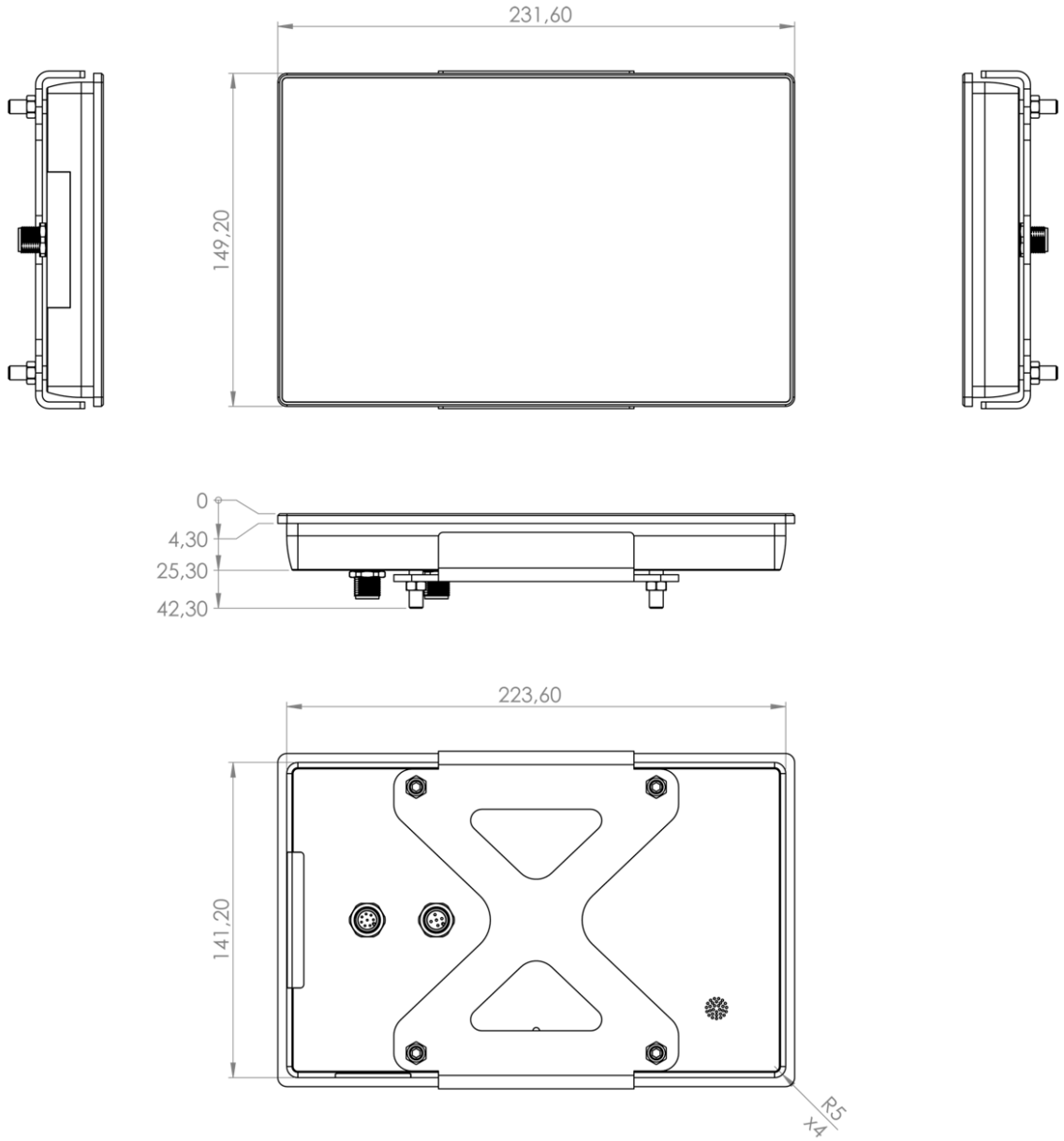
2.3 NMEA2000 specifications

Parameter	description
Compatibility	NMEA2000 compatible
Baudrate	250kbps
Connection	A coded M12 connector

3 Dimensions

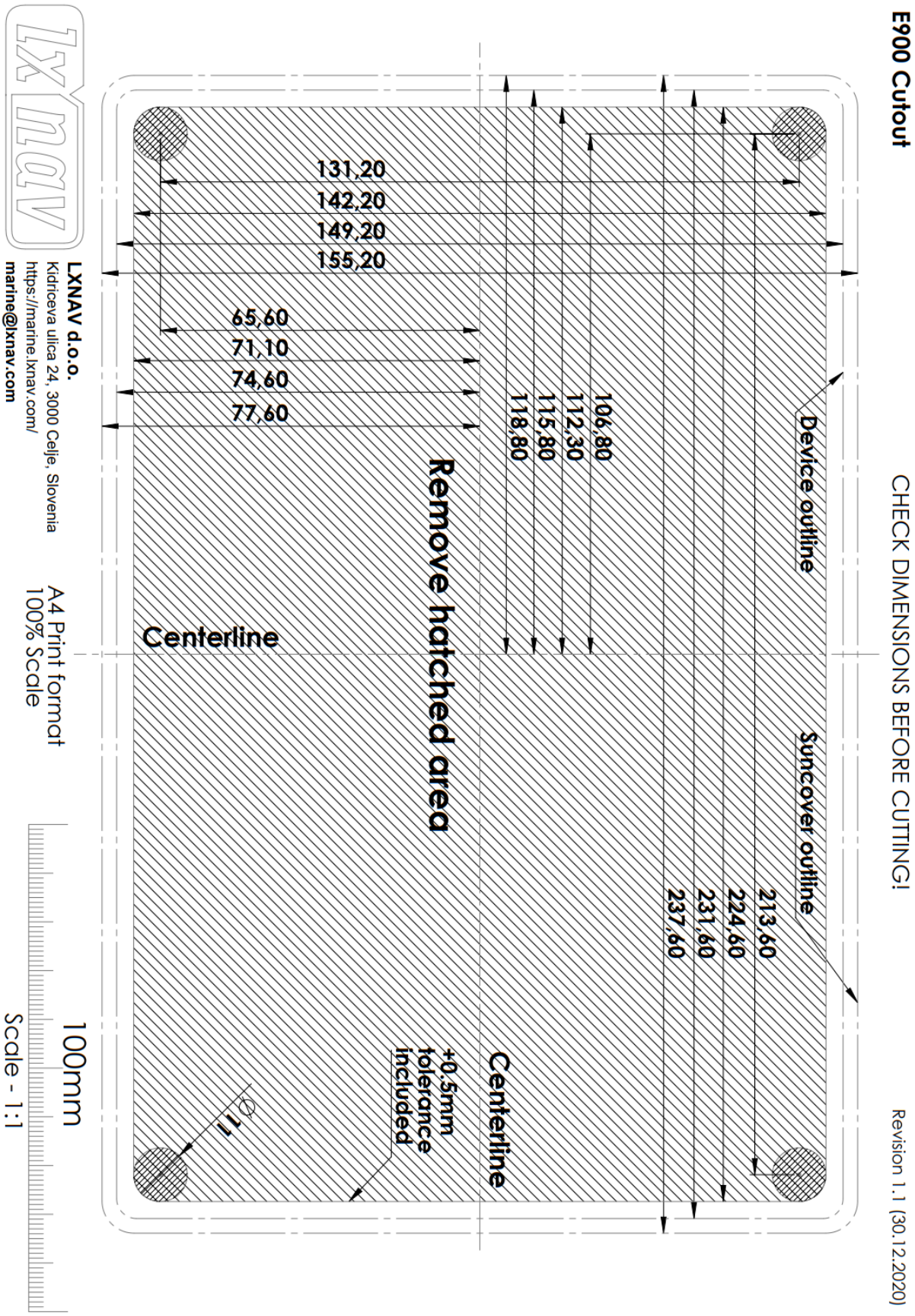
3.1 General dimensions

All measurements are in mm.
Not in correct scale!



3.2 Cutout dimensions

For technical drawings in other formats please contact info@lxnav.com



Drawing not in scale!
Please download the cutout in scale from http://marine.lxnav.com

4 Revision history

Date	Revision	Description
August 2020	1	Initial release of this manual