

HOW TO CONTACT US

Client helpline:
+44 (0)1224 527104

Online support:
www.veripos.com

Email:
helpdesk@veripos.com

www.artdepartment.co.uk

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TECHNICAL INFORMATION

LD5 INTEGRATED MOBILE UNIT



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LD5 is a ruggedised integrated sensor designed to meet a range of demanding offshore positioning requirements.

The VERIPOS LD5 is a state-of-the-art positioning unit which is available in a number of configurations, from a basic L-band demodulator to a fully integrated mobile positioning unit with demodulator and multi-frequency GNSS receiver. The unit can easily be upgraded to different configurations depending on your requirements.

Installation and set up of the LD5 is simple and straightforward. The on-board colour display and intuitive menu structure make the configuration and operation of the LD5 user friendly. The display also provides the user with valuable real-time position and status information.

The LD5 utilises VERIPOS positioning algorithms and supports all VERIPOS services which can produce position accuracies from metre to decimetre level.

The internally installed SD card permits logging of all data, allowing post-processing and post-mission analysis if required.

The LD5 can also be used as a sensor to output raw GNSS measurements and VERIPOS augmentation data in RTCM format. This can be used by external processing or quality control software, such as VERIPOS Verify QC.

Data can be output through three galvanically isolated serial ports configurable for either EIA232 or EIA422. Data is also available through an Ethernet port.

The LD5 is suitable for a wide range of applications including hydrographic/offshore surveying, dredging, offshore construction, seismic exploration and dynamic positioning.

Technical specifications

Physical characteristics

Receiver size:	Aluminium housing, 90mm(H) x 158mm(W) x 227mm(D)
Rating:	IP66
Weight:	2.25kg
Display:	MMI colour screen and keypad, internal SD card for data storage
Operating temp:	-15 to 55 degrees Celsius
Storage temp:	-20 to 70 degrees Celsius
Input voltage:	10 to 36V DC
Consumption:	3W without GPS card, 7W with GPS card

L-band demodulator

Antenna input: 1525 to 1559 MHz
Connector: N-Type

GNSS options

Septentrio AsteRx2 Family
L1 GPS (+GLONASS)
L1/L2 GPS (+GLONASS)

MF Beacon option

Hemisphere SBX-4

Antenna

Various antenna options available depending on application

Ports

3 Serial Connectors: 9 way D RS232/422
Galvanically isolated
USB Device-Type B socket
Ethernet-RJ45
1PPS-BNC
Event marker-BNC

Certifications

CE
FCC part 15B
Certified to IEC60945-2002

