



VOSS: <http://help.veripos.com>

Reference card for use day to day, to print and use.




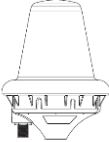
1. Latch Power Button
2. Status LEDs
3. Main Antenna Connector
4. Aux Antenna Connector
5. 1 PPS /Event Connector
6. Com 1 Connector
7. Power Connector
8. Ethernet / USB Connector
9. Com2 / Com3 Connector
10. Com4 / Com5 Connector

Cables and adaptors supplied

1 x PSU 4 pin Lemo Plug	1 x Ethernet / USB Cable 16 pin Lemo Plug (PN 10119)
1 x PPS / Event Cable 7 pin Lemo Plug (PN 10122)	1 x Com1 Cable 9 pin Lemo Plug (PN 10120)
1 x Com2 / Com3 Cable 14 pin Lemo Plug (PN 10121)	1 x Com4 / Com5 Cable 10 pin Lemo Plug
1 x AC power lead	
4 x LMR240 coaxial cable TNC Plug to N-Type Plug (PN: VI-C-0012)	2 x LMR400 coaxial cable N-Type Skt to N-Type Skt (PN: VI-C-0030)
1 x LMR240 coaxial cable N-Type Plug to N-Type Plug (PN: VI-C-0011)	1 x LMR240 coaxial cable TNC Plug to N-Type Plug (PN: VI-C-0012)
1 x LMR400 coaxial cable N-Type Skt to N-Type Skt (PN: VI-C-0030)	

Antennas

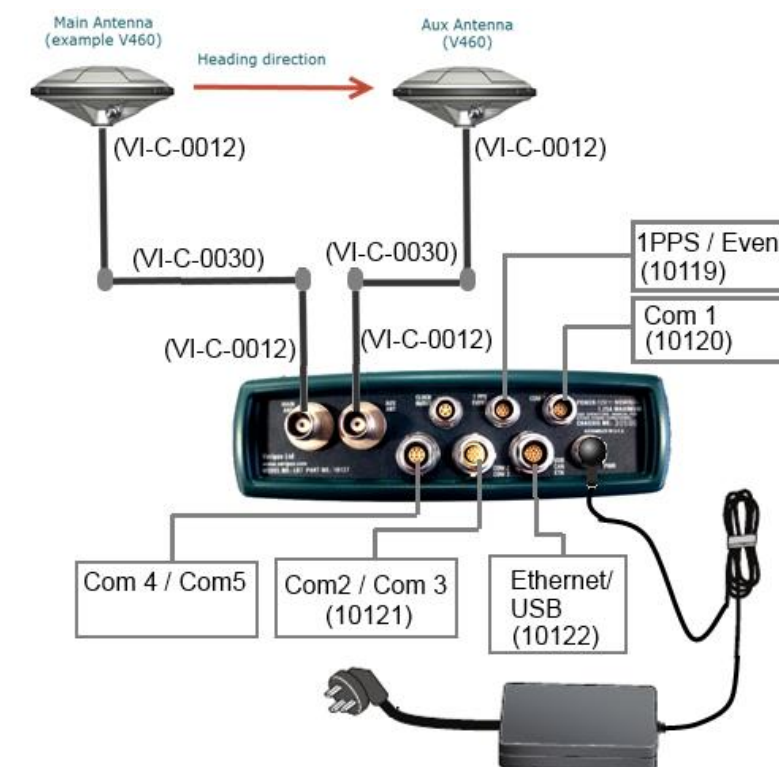
See LD7 Installation manual for more information.

2 x LBand & GNSS combined	V460	
Dedicated LBand (optional)	V86	

Connecting LD7

Connect the LD7 making connections as shown in the typical example installation below.

When installing the Lemo connectors ensure the red dot on the plug and red mark on the socket line up



Initial start-up

Press the power switch on the front panel. Allow the unit approximately 120 seconds to start up.

Use a Windows 7 or XP PC with browser software (**preferably Google Chrome** version 30.0.1559.101 or above)

Amend the IP address of the PC to a compatible address for the LD7.

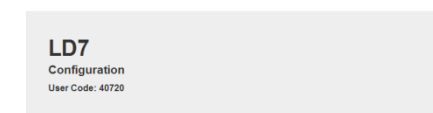
The default fixed IP address of the LD7 is **192.168.0.126**.

Connect the LD7 RJ45 lead via an Ethernet hub or directly to the PC.

On the PC, open internet browser and enter the default LD7 IP address, 192.168.0.126

Enter the unique LD7 User code on front of LD7 unit and press OK.

Once connected the main browser page is shown:



LD7 Main browser page – default / recommended settings shown

Beam selection

On the LBand page select a Veripos correction satellite beam for your



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vessel work area from the drop down options and click Apply:

Beam Selection

AORE

Upon lock to the selected beam the **Sync** LED should be green.

NOTE

In most locations, more than one beam will be available. Different beams carry corrections for different reference stations. A beam should be selected which has the highest elevations and reference stations most suited to the work area.

Beam	Coverage
143.5E	Asia, Australasia, Indian Ocean
POR	East Asia, Australasia, Alaska
IOR	Asia, Indian Ocean, East Africa, Persian Gulf, Caspian Sea
25E	North Sea, Mediterranean Sea, Africa, Persian Gulf, Caspian Sea
AORW	North America, Gulf of Mexico, South America
98W	North America, Gulf of Mexico, South America
AORE	North Sea, Mediterranean Sea, Africa

Enabling the LD7 for Veripos Services

Contact the Veripos Helpdesk to request a service enable quoting your Unit ID, Service Access Licence (SAL) number and listing services required e.g. Veripos Ultra with Standard.

Download a Service Notification Form from <http://help.veripos.com> and use this when contacting the Veripos Helpdesk for an enable.

Tel. +44 1224 965900 email: helpdesk@veripos.com

NOTE

The sync indicator must be green in order for the Access code to be received.

When the unit is enabled the **ENB** LED should be Green

Configuring data outputs from the LD7

Position and heading data (NMEAa or NMEAAb) can be output on Com ports 1 or 2 or via LAN from the LD7. On the Web Browser go to the GNSS Tab and set the NMEA Messages required for output.

NMEAa

GGA GLL VTG ZDA
 GST GSA GSV GNS
 GRS RMC HDT

NMEAAb

GGA GLL VTG ZDA
 GST GSA GSV GNS
 GRS RMC HDT

For serial output, go to the LD7 I/O page and select the data streams and baud rate required for Com ports 1 and 2.

LD7 IO

Serial

COM1 Data: NMEAa Baud: 9600
 COM2 Data: NMEAAb Baud: 9600
 COM3 Data: GNSS Baud: 115200
 COM4 Data: RTCMa Baud: 115200
 COM5 Data: RTCMb Baud: 115200

Configuring data outputs from the LD7 (LAN)

Position and heading data (NMEAa or NMEAAb) is also available for output via LAN. To output NMEA messages from the LD7, the IP address of the GNSS receiver should be used. Note that this is different from the IP address used to connect to the LD7 WebUI.

Data stream	IP Address	Port No.
NMEAa	GNSS Rx IP Address (192.168.0.127 default)	9011
NMEAAb	GNSS Rx IP Address (192.168.0.127 default)	9012

LD7 with Verify QC – LAN outputs

Configure the Verify QC PC network settings to an applicable IP address and Subnet Mask for use with the LD7 (**Control Panel/Network Connections**).

NOTE

The LD7 processor, GNSS and LBand receivers all have separate IP addresses. Take into account when setting an IP address on the PC.

To determine or set the LD7, LBand and GNSS Rx IP Addresses use the LD7 Web Browser.

GNSS IP Address: 192.168.0.127
 IP Address: 192.168.0.127
 Netmask: 255.255.255.0
 Gateway: 192.168.0.1

LD7 IP Address: 192.168.0.126
 Address Type: Dynamic Static
 IP Address: 192.168.0.126
 Netmask: 255.255.255.0
 Gateway:

LBand IP Address: 192.168.0.128
 IP Address: 192.168.0.128
 Netmask: 255.255.255.0
 Gateway: 192.168.0.1

LD7 LAN Port mapping			
Data stream	IP Address	Port No	Verify QC IP
GNSS Raw	GNSS Rx IP Address	9013	GNSS Rx
RTCMa	LBand IP Address	9001	RTCM
LBand Config	LBand IP Address	9003	Demodulator Status

Configure Verify QC inputs for Client Sockets with the following IP Address and LAN ports;

LD7 with Verify QC - Serial Port outputs

You can view or amend baud rates, etc. by going to LD7 IO page in the Web Interface.

Default COM port settings			
LD7 COM port No.	Source /Baud	Content	Verify QC IP
COM3	GNSS / 115200	GNSS Raw	GNSS Rx
COM4	LBand / 115200	RTCMa	RTCM
COM 5	LBand / 115200	RTCMb	RTCM

NOTE

Baud Rates are user configurable. As a result users should check the Baud Rate Settings using the LD7 Web Interface (see Configuring data outputs section of this quick guide).