veracity

LONG RANGE ETHERNET

12V DC POWER
POWER SUPPLY
VLS-1N-L ‹ 100BASE-TX › ‹ 820M ON CAT6 › **VLS-1N-L** IP CAMERA
NETWORK SWITCH 1 LONGSPAN LINK 2 3
POWER POWER SUPPLY

═══ LONGSPAN LINK ━━━ ETHERNET DATA ONLY ① ② ③ SURGE PROTECTION
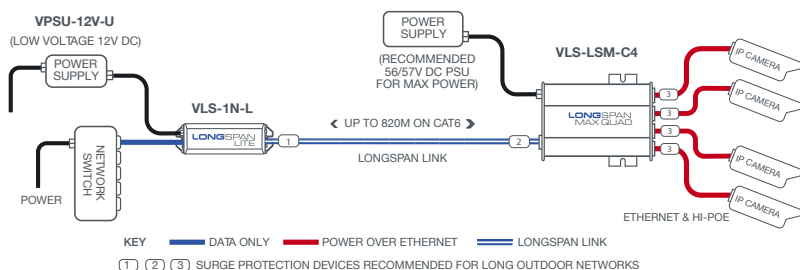
LONGSPAN LITE CAPABILITIES

| LONGSPAN Lite can deliver an unrestricted full-duplex 100Base-TX connection up to 820m on Cat6 or up to 600m on Cat5e network cable.

| A 10Base-T connection can be achieved up to 1050m on Cat6. See LONGSPAN Lite datasheet for details.

| LONGSPAN Lite is fully self-configuring, featuring remote diagnostic LEDs and an extended temperature rating -40ºC to 70ºC.

POWER INPUT

| LONGSPAN Lite must be powered externally (i.e. not via POE).

| LONGSPAN Lite is normally powered by a 12V DC source but can accept a wide range of power inputs: 8V-57V DC or 20V-28V AC.

| Please observe the correct polarity on the green 2-pin screw terminal connector when using DC power sources.

| The correct polarity is shown on the product top label.

INSTALLATION NOTES

| Standard Cat5e or Cat6 cable and RJ45 connectors should be used.

| LONGSPAN Lite supports both patch and crossover cables. Patch wiring (straight through connection) is recommended.

| LONGSPAN devices may also be used with other twisted pair cables* as follows:

4-pair cable: 10Base-T /100Base-TX with standard Cat5e / Cat6 pin-out.

2-pair cable: 100Base-TX performance can be achieved on 2 pairs, where pins 1 & 2 are used for data and pins 7 & 8 are used for POE.

1-pair cable: 10Base-T/100Base-TX performance can be achieved on 1pair, where pins 1 & 2 are not crossed-over.

| When connecting LONGSPAN devices on cables over 600m or over cables with four or more joins (couplers, outlets, patch panels) on-site testing is recommended.

| LONGSPAN Lite extended network link setup and configuration is fully automatic.

| LONGSPAN Lite Ethernet ports should be connected to 100Base-TX or 10Base-T Ethernet compatible equipment.

| LONGSPAN Lite extended network ports should only be connected to other LONGSPAN extended network ports. Devices are always used in pairs.

| LONGSPAN Lite is data-compatible with LONGSPAN Base & Camera devices (POE models) but does not accept or transmit POE.

| Please refer to your regional Veracity Technical Support team for help & advice.

Stated performance will be achieved where twists/metre and cable length permits, otherwise LONGSPAN will default to 10Base-T performance.
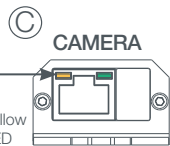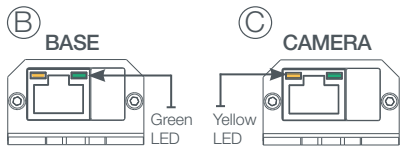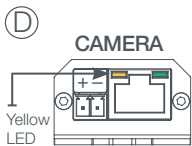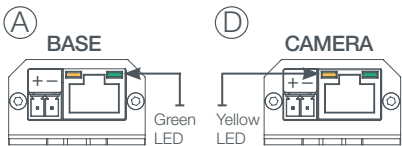

VPSU-12V-U
(LOW VOLTAGE 12V DC)
POWER SUPPLY
VLS-1N-L ‹ UP TO 820M ON CAT6 ›
NETWORK SWITCH 1 LONGSPAN LINK 2
POWER

POWER SUPPLY
(RECOMMENDED 56/57V DC PSU FOR MAX POWER)
VLS-LSM-C4
LONGSPAN MAX QUAD
IP CAMERA 3
IP CAMERA 3
IP CAMERA 3
IP CAMERA 3
ETHERNET & HI-POE

KEY ━━━ DATA ONLY ━━━ POWER OVER ETHERNET ═══ LONGSPAN LINK
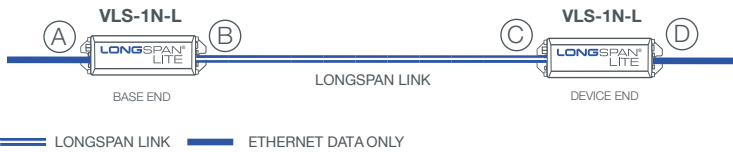① ② ③ SURGE PROTECTION DEVICES RECOMMENDED FOR LONG OUTDOOR NETWORKS

ETHERNET AND LONGSPAN LEDS

| The tables below show the Ethernet and LONGSPAN Lite interface ports status LEDs.

| The green LONGSPAN LED may blink quickly while connecting.

| For extremely long runs, it may take a few seconds to optimise the link.

| For more detailed connection information please refer to the current LONGSPAN datasheet on www.veracityglobal.com

VLS-1N-L
A   B
LONGSPAN LITE
BASE END

LONGSPAN LINK

VLS-1N-L
C   D
LONGSPAN LITE
DEVICE END

═══ LONGSPAN LINK   ▬▬▬ ETHERNET DATA ONLY

A BASE — Green LED
D CAMERA — Yellow LED
B BASE — Green LED
C CAMERA — Yellow LED

ETHERNET LINK Ⓐ Ⓓ

ETHERNET LEDS	FUNCTION
RJ45 Green	Power
On	Power Good
RJ45 Yellow	Link / Activity
On	Link Established
Flash	Network Activity

LONGSPAN LINK Ⓑ Ⓒ

LONGSPAN LEDS	FUNCTION
RJ45 Green	Power
On	100Mbps
Flash	10Mbps
Blink	No Link
RJ45 Yellow	Link / Activity
On	Link Established
Flash	Network Activity

LARGER SYSTEMS

| For high channel count or high-density applications, LONGSPAN Lite units may be rackmounted in the VLS-1U fascia plate to support up to 24 units in 1U. (See LONGSPAN Lite datasheet).

| A variety of Veracity power supply options are available for larger centralised installations. Please see datasheets.

LONGSPAN DIMENSIONS

Ø5mm

111mm

23mm

36mm

100mm

96mm

120mm
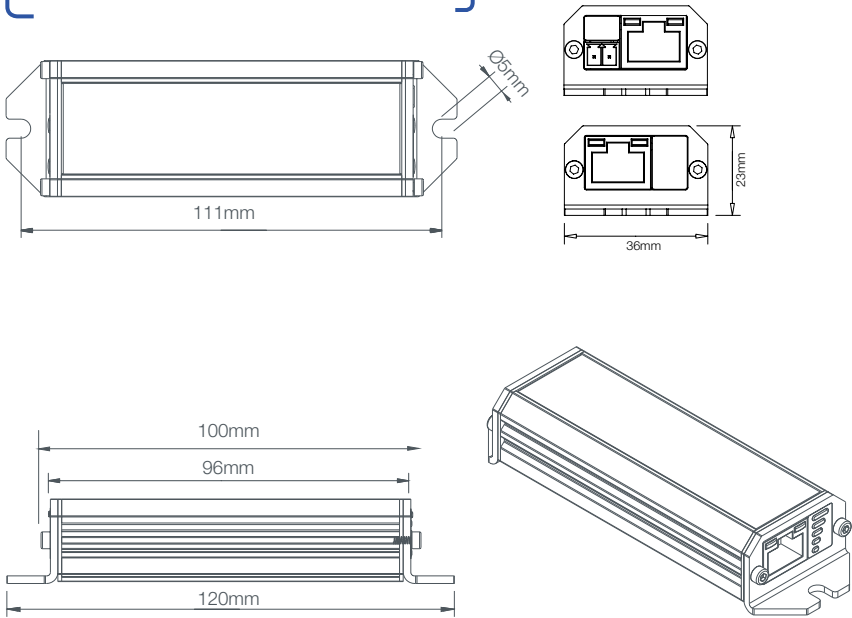
SURGE PROTECTION

| Any LONGSPAN network design for outdoor or external sections must incorporate the appropriate level of surge protection to avoid invalidation of warranty due to electrical storm damage. It is the responsibility of the system installer to ensure the correct level of surge protection.

Surge Protection
All Veracity products have been independently tested to verify their resilience to the stringent immunity levels of international standards. Users should note that no electronic equipment can be guaranteed to be completely protected at levels beyond the defined standard; therefore product warranty cannot include damage to products which has been caused by surges exceeding those of the standards specified, for example lightning strike activity.

It is the user's responsibility to implement relevant surge protection measures, as appropriate to the installation. This may include the fitting of additional surge protection devices where required.