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. *See also surge protection statement below and LONGSPAN Application Notes.*

IMPORTANT SAFETY NOTES

| This equipment is designed for indoor use only. Place in a well ventilated position.

| The LONGSPAN Base surface can get hot, so caution should be taken when handling the unit. Please allow time to cool after switching off before handling the surfaces.

| If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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.

This Device Complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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QSG DV1.4EN LONGSPAN® &
SAFEVIEW® are registered trademarks
and LONGSPAN Base 8™ is a
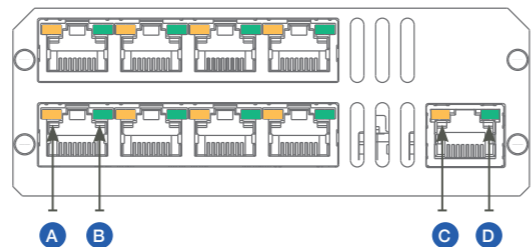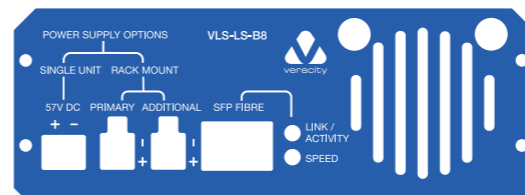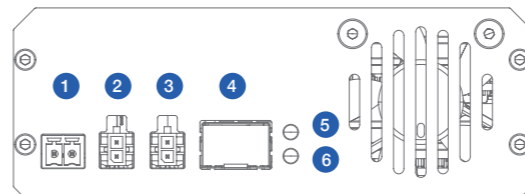trademark of Veracity UK Ltd

RoHS CE FC (WEEE)

FRONT CONNECTIONS & LEDS

FRONT

	LED	FUNCTION
A	LONGSPAN RJ45 Yellow	**On** = Link Established. **Flash** = Network Activity.
B	LONGSPAN RJ45 Green	**On** = 100Mbps. **Flash** = 10Mbps. **Blink** = No Link to Camera.
C	Ethernet RJ45 Yellow	**On** = Link Established. **Flash** = Network Activity.
D	Ethernet RJ45 Green	**On** = Power Good.

REAR CONNECTIONS & LEDS

REAR

	CONNECTIONS	SFP LED	OPERATION
1	57V DC Single Unit Power (up to 8 x 30W)	Top / 5	**Link/Activity** **Green** = Power On. Fibre detected. **Blinking Green** = Link is Established. Network Activity.
2	57V DC Primary Rackmount Power (up to 8 x 30W)		
2 / 3	57V DC Primary Rackmount plus the 57V DC Additional Rackmount Power (up to 4 x 30W & 4 x 70W)	Bottom / 6	**Speed** **Green** = 1000Mbps. **Red** = 10/100Mbps.
4	SFP Socket		

VLS-LS-B8

QUICK START GUIDE

8 PORT LONG RANGE ETHERNET & POE

LONGSPAN®
BASE 8

veracity

OVERVIEW

LONGSPAN Base 8™ delivers unprecedented power and bandwidth over extreme lengths of regular Cat5e or Cat6 network cable.

LONGSPAN Base 8 delivers unrestricted 100Base-TX over 8 ports. The top 4 ports deliver 802.3at POE (up to 30W) and the bottom 4 ports deliver 802.3bt POE (up to 70W) at distances far beyond the normal Ethernet limits for problem-free IP camera installation.

LONGSPAN Base 8 provides eight ethernet cable connections. The Base unit has a single standard RJ45 Gigabit Ethernet port to allow connection to a main network switch. An SFP socket is also provided to allow a fibre network connection if required by the application.

All LONGSPAN Base 8 units must be powered through the DC power connectors. The single-screw-terminal connector is designed for a maximum of 6A at 57V DC. For **lower-power applications** Veracity's 100W POE power supply (VPSU-POE-100) **or** 240W POE power supply (VPSU-POE-240) may be used, connected to the single PSU screw-terminal power connector.
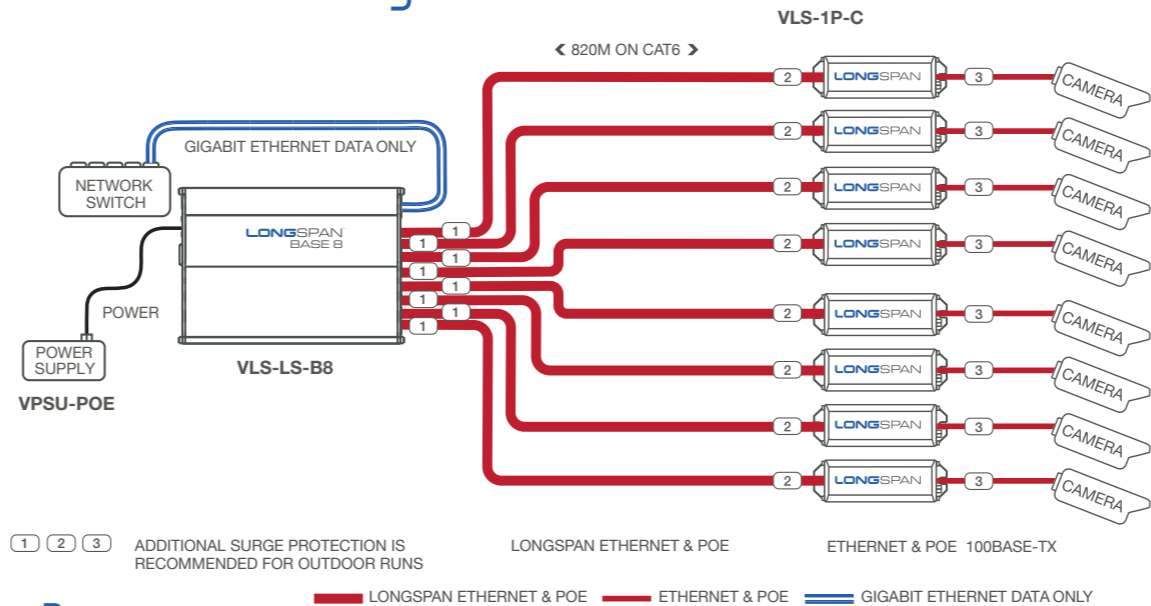
For **high-power applications** (up to 30W per port for the top row and up to 70W per port for the bottom row) a Veracity Rackmount power supply must be used, connected to the Primary and Additional power connectors. Each connector is designed for a maximum of 5A at 57V DC. Both Primary and Additional connectors must be used for maximum power delivery.

SAFETY FEATURE

If the operating temperature of the LONGSPAN Base 8 unit becomes too high (due to power overload, fan failure or obstructed airflow), the output ports will shut down and the green LEDs will flash rapidly, indicating a fault. This is to protect the internal electronics and is a general safety feature.

01

LONGSPAN APPLICATION DIAGRAM

VLS-1P-C

‹ 820M ON CAT6 ›

GIGABIT ETHERNET DATA ONLY

NETWORK SWITCH

POWER

POWER SUPPLY

VPSU-POE

VLS-LS-B8

CAMERA

LONGSPAN ETHERNET & POE

ETHERNET & POE 100BASE-TX

[1] [2] [3] ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR OUTDOOR RUNS

━━━ LONGSPAN ETHERNET & POE   ━━━ ETHERNET & POE   ━━━ GIGABIT ETHERNET DATA ONLY

INSTALLATION

| Install the LONGSPAN Base 8 unit into the rack using the Veracity Rackmount accessory (VRM-TRAY-BASE).

| Connect the Gigabit uplink port to the main network switch (alternatively use an SFP module and connect that to the main network).

| At the IP camera (device) end, connect an IP camera (or other IP device) to the Ethernet port of a LONGSPAN Camera, using the recommended surge protection (item 3 in the diagram). Repeat to install up to eight IP cameras (devices).
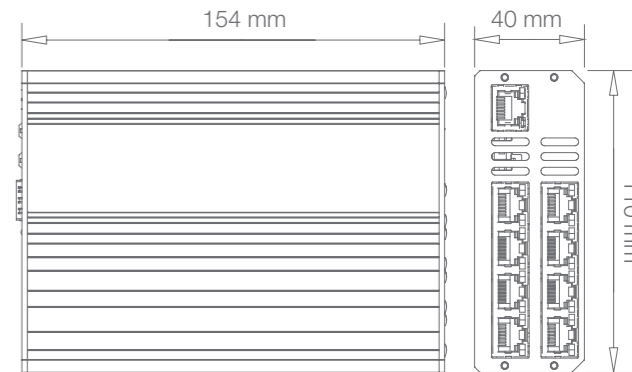
| At the IP camera (device) end, connect the long network cables to the extended network port of the LONGSPAN Camera units using the recommended surge protection (item 2 in the diagram), noting that CAT6 cable is recommended for cable runs longer than 300m and essential for cable runs longer than 600m.

| At the base (switch) end, connect the other end of the long network cables to the LONGSPAN Base 8 unit via the recommended surge protection (item 1 in the diagram). For high-power applications, note that the bottom row of RJ45 connectors can output up to 70W of POE, and the top row up to 30W of POE.

02

| Install the appropriate power supply for the application, having calculated the maximum power draw for the whole system, noting that the LONGSPAN Base 8 unit itself will use 8W at idle and 20W under maximum output load.

| Connect either a single unit power supply to the screw-terminal connector or a Rackmount supply to the Primary and/or Additional power connectors as appropriate for the total power required by the application.

| Confirm 100Base-TX on the LEDs and confirm POE power availability on the LONGSPAN Camera unit's SAFEVIEW® LEDs and also that each IP camera or other IP device is powered-up successfully.

| The installation is complete.

PRODUCT DIMENSIONS

154 mm

40 mm

110 mm

03

04