

Deliver the power and bandwidth your IP camera needs over exceptional distances

LONGSPAN delivers unprecedented power and bandwidth over extreme lengths of regular Cat 5e or Cat 6 network cable.

Long range point-to-point Ethernet over regular Cat 5 or Cat 6 cable

Unrestricted 100Base-T with POE at over 800 metres

POE version delivers full POE Plus power at 600 metres

Ruggedised for high performance over extreme temperature range

Smart power and diagnostic display for reliable installation

Fully automatic, simple to install and maintenance-free



## Full speed, long-range, point-to-point Ethernet link with POE over Cat 5e and Cat 6 cable

LONGSPAN delivers unrestricted 100Base-T with 802.3af and 802.3at POE at distances way beyond the normal Ethernet limits for problem-free IP camera installation

### Unrivalled range and power

IP cameras can demand peak network bandwidth of several times their average data rate while transmitting high-activity or low-light scenes. LONGSPAN has been POE-equipped models allow all of the designed to run IP cameras over 800 power for the link to be sourced from metres (2600 feet) of normal network a single POE switch or power supply, cable, supporting the full 200Mbps for simple installation and reliable required for 100Base-T Ethernet. The UPS-backed power delivery. LONGSPAN's Veracity LONGSPAN's unique technology full-speed Ethernet provided by LONGSPAN unique power transmission technology automatically adapts to the number of ensures perfect image quality at critical can deliver the full 25.5 watts required pairs available, and delivers the same moments, even at the longest cable ranges. for POE Plus equipment at up to 600 unrestricted 10 or 100Mbps full-duplex For even more extreme distances, metres (2000 feet), or standard 15 watt network connection, assuring predictable LONGSPAN can automatically drop to POE up to 820 metres (2600 feet).

10Base-T operation, supporting a range of over 1000 metres (3280ft).

#### Upgrade legacy UTP cable

LONGSPAN also supports 1-pair and 2-pair cable with extended range, so analogue cameras in UTP installations can now be upgraded to IP with no need to replace the installed cabling infrastructure.

IP video quality each and every time.



Diagram 1. A pair of LONGSPAN converters deliver full-bandwidth Ethernet & optional full-power POE over greatly extended distances of regular network cable or UTP.



Up to 24 LONGSPAN units can be mounted in a 1U rack space.

#### Designed for installers

performance every time it is connected. No user setup, no DIP switch settings, and no system pairings are required.

On POE models, a smart LED display utilising Veracity's SafeView™ technology provides instant confirmation of link status, power availability, and diagnostic information, from either end of the cable. High-density installations are supported with a neat configurable rack mounting

system, which allows up to 24 channels LONGSPAN self-configures for the best to be installed in just 1U of rack space.

> For network-only applications, the same non-POE model is fitted at each end of the link. For network and power delivery, Base and Camera POE units are used together. A POE switch or separate POE injector may be used as the Base power source. Maximum power and range is achieved with the optional 57V Veracity PSU, enabling the LONGSPAN Base unit to become the POE injector for the link.



Example 1. LONGSPAN BASE and CAMERA are sold separately.

#### LONGSPAN Data Range

RATE	CAT 6	CAT 5e	1 - PAIR (typical)
100 Base-T	820m (2700ft)	690m (2250ft)	300m (1000ft)
10 Base-T	1050m (3500ft)	950m (3100ft)	900m (3000ft)

#### LONGSPAN POE Range

CAMERA POWER	802.3af POE Switch		802.3at POE Plus Switch		Veracity Power Supply	
	CAT 6	CAT 5e	CAT 6	CAT 5e	CAT 6	CAT 5e
5 watts	1050m	950m	1050m	950m	1050m	950m
10 watts	600m	450m	1050m	950m	1050m	950m
15 watts	n/a	n/a	700m	550m	1000m	800m
20 watts	n/a	n/a	500m	350m	750m	600m
25 watts	n/a	n/a	n/a	n/a	600m	450m

NOTES: Range is for typical 24AWG Cat 5e or 23AWG Cat 6, 4-pair UTP | For other cables types, or any installations over 600 metres length, consult Veracity for recommendations or test on site | Distances may be increased by connecting multiple  $links in series \mid Datarate at full range stated: 100 Base-T=200 Mbps, 10 Base-T=20 Mbps$ 



Example 2. Smart LED display shows SafeView™ technology.

# TECHNICAL SPECIFICATION DICESPANTM

POWER (NON-POE MODELS)

Unit power 1.0 watts

DC Power input Detachable screw terminal for class II isolated external supply

8-57 volts DC or 20-28 volts AC, max 100mA

POWER (POE MODELS)

POE in (base) IEEE 802.3af (POE) or IEEE 802.3at (POE Plus), 2-event, power class 4

POE out (camera) IEEE 802.3af (POE) or IEEE 802.3at (POE Plus)

DC power in (base)

Detachable screw terminal for optional Veracity 57V supply

LONGSPAN INTERFACE

Connector RJ45

Cable Cat 6, Cat 5e, Cat 3, other 1/2/4-pair UTP

Patch wiring recommended, other wiring auto-corrected

Rate 200Mbit/s up to 600 metres [2,000ft] (CAT 6)

20Mbit/s up to 1000 metres [3300ft] (CAT 6), auto-adapts

ETHERNET INTERFACE

Connector RJ4

Cable Patch or crossover, auto detected

Rate 100Base-TX or 10Base-T, full-duplex with auto-negotiation

LED INDICATORS

Ethernet Link/activity, power good LONGSPAN Link/activity, rate

Safeview™ Power available (5/10/15/20/25 watts)

(POE models only) POE and link status (green/amber), diagnostic codes (red)

PHYSICAL/ENVIRONMENTAL

Dimensions L 120mm (inc. brackets), W 36mm H 23mm

Weight 100g [3.5oz]

Operating temperature -40°C to 70°C [-40°F to 158°F]

Relative humidity 85% non-condensing Compliance FCC, CE, RoHS

PRODUCT CODES

VLS-1N-L LONGSPAN LITE Single Non POE LONGSPAN converter, 1 port, no POE. (2 required per link)

VPSU-12V-U 12V power supply for non-POE models, universal AC input.

VLS-1P-B LONGSPAN BASE Single POE LONGSPAN converter with POE in, extended POE out, and

SafeView<sup>™</sup> display, for base side (switch) installation.

VLS-1P-C LONGSPAN CAMERA Single POE LONGSPAN converter with POE out, extended POE in, and

SafeView<sup>™</sup> display, for camera side (remote device) installation.

VPSU-57V-800 57V power supply for POE models (optional: for maximum power

or as an alternative to POE input).

VLS-1U 1U panel for up to 24 LONGSPAN units.

VPSU-xx Rack-mountable multi-channel power supplies - optional dual-redundancy

and status LEDS: see rackmount accessory and power supply datasheet.

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