

LONGSPAN
LONG RANGE ETHERNET & POE



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

Long range point-to-point ethernet over regular Cat 5 / Cat 6 cable

Unrestricted 100Base-T with POE at over 800 metres (2600 feet)

POE version delivers full POE Plus power at 600 metres (2000 feet)

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 Cat5e and Cat6 cable

LONGSPAN delivers unrestricted 100Base-T and 802.3af/at 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. That's why LONGSPAN has been designed to run IP cameras over 800 metres (2600 feet) of normal network cable, supporting the full 200Mbps required for 100Base-T

Ethernet. The full-speed Ethernet provided by LONGSPAN ensures perfect image quality at critical moments, even at the longest ranges.

For even more extreme distances, LONGSPAN can automatically drop to 10Base-T operation, supporting a range of over 1000 metres (3280ft).

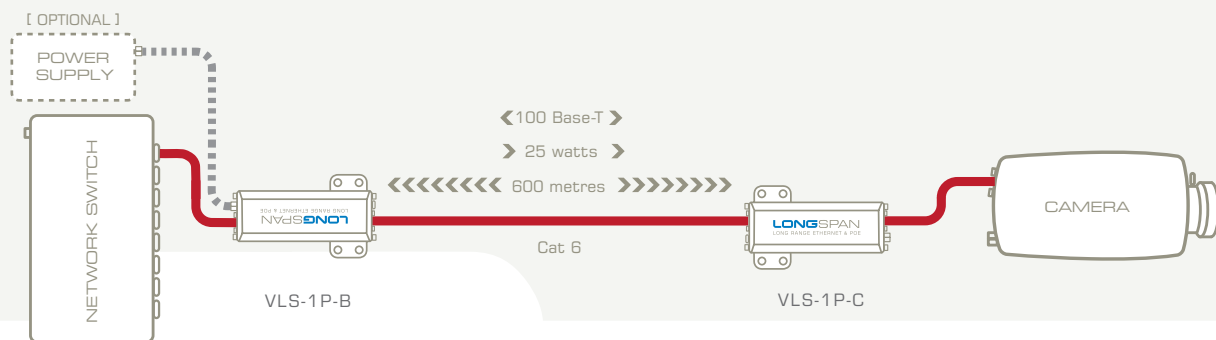
POE-equipped models allow all the power from the link to be sourced from a single POE switch or power supply, for simple installation and reliable UPS-backed power delivery. LONGSPAN's unique power transmission technology can deliver the full 25.5 watts required for POE Plus equipment at up to 600

metres, or standard 15 watt POE up to 820 metres.

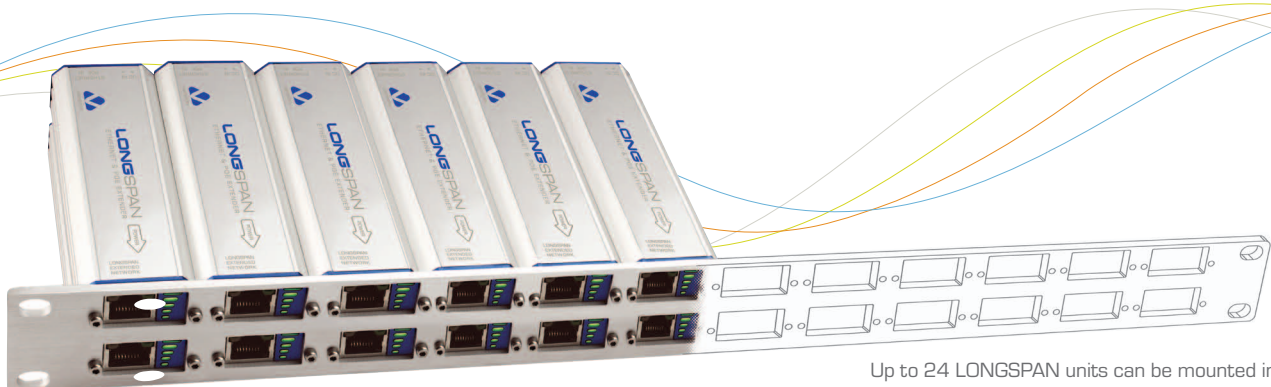
Upgrade legacy UTP cable

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.

LONGSPAN's unique technology automatically adapts to the number of pairs available, and delivers the same unrestricted 10 or 100Mbps full-duplex network connection, assuring predictable IP video quality each and every time.



A pair of LONGSPAN converters deliver full-bandwidth Ethernet and 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

LONGSPAN self-configures for best 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 configurable rack mounting system, which allows up to 24 channels 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. To extend power as well, models which can receive POE at the base side, or deliver POE at the camera side, are available.



Smart LED display - SafeView™ technology.

LONGSPAN Data Range

RATE	CAT 6	CAT 5e	1 - PAIR (typ)
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 | Data rate at full range stated: 100Base-T = 200Mbps, 10Base-T = 20Mbps

Technical Specification:

POWER Non-POE models	Unit Power DC power input	1.0 watts 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) POE out (camera) DC power in (base)	IEEE 802.3af (POE) or IEEE 802.3at (POE Plus), 2-event, power class 4 IEEE 802.3AF (POE) or IEEE 802.3at (POE Plus) Detachable screw terminal for optional Veracity 57V supply
LONGSPAN	Connector Cable Rate	RJ45 Cat 6, Cat 5e, Cat 3, other 1/2/4-pair UTP Patch wiring recommended, other wiring auto-corrected 200Mbit/s up to 600 metres (Cat 6) 20Mbit/s up to 1000 metres (Cat 6), auto-adapts
ETHERNET	Connector Cable Rate	RJ45 Patch or crossover, auto detected 100Base-TX or 10Base-T, full-duplex with auto-negotiation
LEDS	Ethernet LONGSPAN SafeView™ (POE models only)	Link/activity, power good Link/activity, rate Power available (5/10/15/20/25 watts) POE and link status (green/amber), diagnostic codes (red)
PHYSICAL	Dimensions Weight Operating temp Rel humidity Compliance	L 120mm / 4.7in (inc. removable mounting brackets), W 36mm / 1.4in, H 23mm / 0.9in 100g / 3.5oz -40°C to 70°C / -40°F to 158°F 85% non-condensing FCC, CE, RoHS
PRODUCT CODES Non-POE Models	VLS-1N-L VPSU-12V-U	Single LONGSPAN converter, 1 port, no POE. (2 required per link) 12V power supply for non-POE models, universal AC input.
PRODUCT CODES POE Models	VLS-1P-B VLS-1P-C VPSU-57V-800	Single LONGSPAN converter with POE in, extended POE out, and SafeView™ display, for base (switch) side installation. Single LONGSPAN converter with POE out, extended POE in, and SafeView™ display, for camera (remote device) side installation. 57V power supply for POE models (optional: for maximum power or as an alternative to POE input).
PRODUCT CODES Accessories	VLS-1U VPSU-xx	1U panel for up to 24 LONGSPAN units. Rack-mountable multi-channel power supplies with optional dual-redundancy and status LEDES: see rackmount accessory and power supply datasheet.



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