ETHERNET OVER COAX HIGHWIRE Series

NON5

LONG RANGE ETHERNET OVER COAX HIGHWIRE

Longstar Series

(O)

ETHERNET EXTENDERS

OUTREACH Series



LONG RANGE ETHERNET LONGSPAN

Series



FIBRE TO ETHERNET LIGHTSPAN



NTP TIME SERVER

TIMENET Pro



CAMERA INSTALLATION TOOLS POINTSOURCE

PINPOINT



2025 VERACITY IP TRANSMISSION

PRODUCT

POWER SUPPLIES INJECTORS

OUTSOURCE Series







PRODUCT GUIDE

This Product Guide provides short-form information on all Veracity IP Transmission Products and is intended as a useful product comparison and product overview.

A full datasheet for each product is available on the Veracity website www.veracityglobal.com

Each product has an example application diagram which illustrates how the product might be connected. Further application diagrams can be found in the datasheets and on the website.

POE (Power Over Ethernet) is a core feature of most modern IP installations, so we have provided a useful reference table on page 4 which shows the POE Classes, IEEE standard, the power levels at the PSE (Power Sourcing Equipment) and the maximum power which can be delivered at the PD (Powered Device).

For more information on POE and how it works, please visit our website. Use the Power Sources key on page 2, to know which sources can be used with each product, as indicated throughout the guide.



POE REFERENCE TABLE

POE CLAS	IEEE S STANDARD	POE POWER AT PSE	POE POWER AT PD	
0	802.3af	15.4W	12.95W	
1	802.3af	4W	3.84W	
2	802.3af	7W	6.49W	
3	802.3af	15.4W	12.95W	
4	802.3at	30W	25.5W	
5	802.3bt	45W	40W	
6	802.3bt	60W	51W	
7	802.3bt	75W	62W	
8	802.3bt	90W	71.3W	
DSE - Power Sourcing Equipment				

PSE = Power Sourcing Equipment **PD** = Powered Device



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1 PORT ETHERNET OVER COAX

HIGHWIRE®



PRODUCT CODE VHW-HW

HIGHWIRF

- Upgrade analogue to IP cameras no recabling.
- Uses legacy coaxial cabling.
- Supports HD and 4K IP cameras.
- Fully transparent full-duplex 100Base-TX.
- Easy to install no IP address or other setup. 500m on RG11 or up to 300m on RG59.
- 12-40V DC or 24V AC power input.
- Non-POE, local power required at camera. Device Size L:104mm W:54mm H:24mm

COAX TO 500M | ETHERNET OVER COAX



POWER SOURCES



1 PORT POE OVER COAX

(BASE + CAMERA)

HIGHWIRE® POWERSTAR



PRODUCT CODES

Base Camera

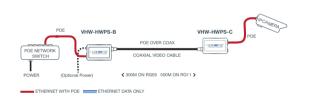
VHW-HWPS-B VHW-HWPS-C

HIGHWIRE POWERSTAR

- Upgrade analogue to IP cameras no recabling.
- Same as HIGHWIRE with POF over coax.
- POE switch powers HIGHWIRE Base device, HIGHWIRE Camera device and IP Camera.
- For maximum range and power Veracity's 57V DC PSU can be used as an alternative to POE in.
- Up to 25W POE to IP camera with 57V DC PSU.
- SAFEVIEW™ Instant LED status confirmation.

Device Size L:104mm W:54mm H:24mm

COAX TO 500M | ETHERNET & POE OVER COAX



POWER SOURCE OR POF POWERED

2 PORT POE OVER COAX (CAMERA)

HIGHWIRE® **POWERSTAR**

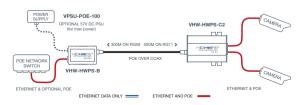


PRODUCT CODE VHW-HWPS-C2

HIGHWIRE POWERSTAR DUO

- Replace 1 analogue camera with 2 IP cameras without the need to recable.
- Combines standard HIGHWIRE with two-port POF network switch.
- No configuration is required.
- Pairs with HIGHWIRE Powerstar Base device.
- POE switch can power Base. Duo & IP cameras.
- SAFEVIEW™ Instant LED status confirmation. Device Size L:132mm W:75mm H:22mm

COAX TO 500M | ETHERNET & POE OVER COAX



POWER SOURCES OR POF POWERED

4 PORT POE OVER COAX (CAMERA)

HIGHWIRE® POWERSTAR PILAD

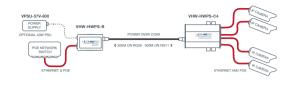
PRODUCT CODE VHW-HWPS-C4

HIGHWIRE POWERSTAR QUAD

- Replace 1 analogue camera with up to 4 IP cameras without recabling.
- I Supports up to 4 HD IP cameras over one coax link
- Pairs with HIGHWIRE Powerstar Base device.
- POE switch can power Base. Quad & IP cameras.
- SAFEVIEW™ Instant LED status confirmation.
- No configuration required.

Device Size L:132mm W:75mm H:22mm

COAX TO 500M | ETHERNET & POE OVER COAX



POWER SOURCES OR POF POWERED

4 PORT POE OVER COAX (BASE)

HIGHWIRE® POWERSTAR BASE 4



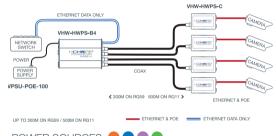
PRODUCT CODE VHW-HWPS-B4

HIGHWIRE POWERSTAR BASE 4

- Replaces typical 4 channel analogue video encoders to enable the installation of replacement IP cameras over existing coax.
- Ethernet and POF over coax.
- Reuses existing coax.
- Fully automatic configuration.
- Gigabit Ethernet network uplink SFP port for optional fibre uplink.

Device Size L:173mm W:110mm H:22mm

COAX TO 500M | ETHERNET & POE OVER COAX



POWER SOURCES

8 PORT POE OVER COAX (BASE)

HIGHWIRE® POWERSTAR BASE 8



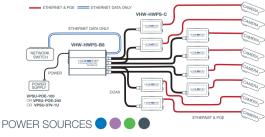
PRODUCT CODE VHW-HWPS-B8

HIGHWIRE POWERSTAR BASE 8

- 8 channels per Base device, up to 32Ch in 1U.
- Full duplex 100Base-TX on each coax link.
- Gigabit uplink port fibre option via SFP socket.
- Only 1 main switch port needed per 8 channels.
- POE or POE Plus per channel, on all channels.
- Up to 300m on RG59, 500m on RG11.
- Automatic configuration for simple installation.

Device Size L:173mm W:110mm H:40mm

COAX TO 500M | ETHERNET & POE OVER COAX



1 PORT POE OVER COAX (CAMERA)

HIGHWIRE® POWERSTAR XT

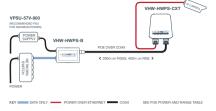


PRODUCT CODE VHW-HWPS-CXT

HIGHWIRE POWERSTAR CAMERA XT

- External version of HIGHWIRE Powerstar (Camera).
- Eliminate power cabling with POE over coax.
- Reliably power POE Plus cameras (25watts).
- SAFEVIEW™ instantly checks connection + power.
- Fully automatic no configuration required.
- Simple fast, cost-effective installation.
- Resilient, IP66, IP67, IP69K, Nema 4X, 6.
- Full 100Base-TX Ethernet performance. Device Size D:69mm W:113mm H:144mm

COAX TO 500M | EXTERNAL POE OVER COAX



POWER SOURCE | POE POWERED

1 PORT LONG BANGE POF **OVER COAX (BASE & CAMERA)**

HIGHWIRE® LONGSTAR



PRODUCT CODES

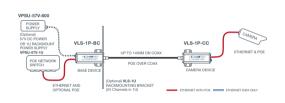
VLS-1P-BC Base VLS-1P-CC Camera

HIGHWIRE LONGSTAR

- Long range Ethernet and POE over coax cable.
- Fully automatic. Simple installation.
- Unrestricted 100Base-TX and POE over 1400m (4,600ft) on RG11.
- Ruggedised, extreme temperature range.
- BS EN 50121-4 compliant (rail and metro).
- Note: LONGSTAR is not compatible with the HIGHWIRE Powerstar range.

Device Size L:115mm W:55mm H:27mm

CAT5/6 | 100BASE-TX TO 1400M | LAN & POE



POWER SOURCES OR POE POWERED

1 PORT LONG RANGE ETHERNET **OVER COAX**

HIGHWIRE® LONGSTAR LITE



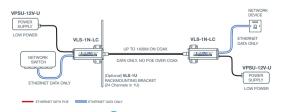
PRODUCT CODE VLS-1N-LC (Non-POE)

HIGHWIRE LONGSTAR LITE

- Long range Ethernet over coax cable.
- Fully automatic. Simple installation. Requires pair.
- Unrestricted 100Base-TX over 1400m (4,600ft) on RG11.
- Ruggedised, extreme temperature range.
- BS EN 50121-4 (rail and metro compliant).
- Up to 4.2km (2.5 miles) data-only link at 10Base-T.

Device Size L:115mm W:55mm H:27mm

CAT5e/6 | 100BASE-TX TO 1400M | LAN



POWER SOURCES

4 PORT POE OVER COAX BUNDLE

HIGHWIRE® FNCODER REPLACEMENT KIT



PRODUCT CODES

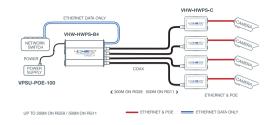
VHW-HWPS-ERK4-UK or EU or US

HIGHWIRE ENCODER REPLACEMENT KIT

- Kit comes with HIGHWIRE Base 4, four HIGHWIRE Powerstar (camera) devices and a 1500mA 57V Power Supply and Power Cord.
- Fully automatic configuration.
- Replaces typical 4 channel analogue video encoders to enable the installation of replacement IP cameras over existing coax.
- Ethernet and POE over coax.

Base Device Size L:173mm W:110mm H:22mm

COAX TO 500M | ETHERNET OVER COAX



POWER SOURCE 57V 1500mA INCLUDED IN BUNDLE

1 PORT COMPACT POF OVER COAX (CAMERA)



PRODUCT CODE VHW-HWPS-CBB

HIGHWIRE BACKBOX

- I Upgrade analogue to IP cameras no re-cabling. Compact device for inside camera housings.
- Flexible leads easy connection in small space.
- Reliably power POE Plus cameras up to 25W.
- SAFEVIEW™ checks connection + power status.
- Compatible with VHW-HWPS Base devices.
- Full 100Base-TX Ethernet performance. Device Size L:84mm W:62mm H:23mm Lead Length: 150mm

COAX TO 500M | ETHERNET OVER COAX



POWER SOURCE | POE POWERED

POWER SOURCES

Most Veracity IP Transmission devices can be POE-powered or directly DC-powered. A direct DC input power arrangement at the base end will provide the maximum available

POE power level at the device (camera) end and at the maximum distance.

In this guide, there is a colour key for each product which shows compatible power supplies and the range of power supply options.

Larger power supplies such as the 400W and 1x1kW or 2x1kW are designed to power multiple multi-channel transmission devices and can be conveniently mounted at the rear of the rack in the same 1U height as the front-mounted transmission devices, thereby increasing density and saving rack space.

POWER SUPPLY KEY





57V 1500mA



57V 100W POF



56V 240W POE



57V 1U RACK 8800mA



12V UNIVERSAL PSU



24V RMPSU

1 PORT ETHERNET & POE EXTENDER

OUTREACH® MAX



PRODUCT CODE VOR-ORM

OUTREACH MAX

- Extends Cat5e/6 Ethernet by 100 metres.
- Powered by POE.
- Daisy-chain devices for multiples of 100 metres.
- Easy to install, no set-up required.
- POE compatible. (802.3af, 802.3at, 802.3bt).
- Handles up to 90W high power.
- Full POE delivery at 200/300m (1 device/2 devices).

Device Size L:105mm W:40mm H:22mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN & POE



POWER SOURCE | POE POWERED

1 PORT ETHERNET EXTENDER

OUTREACH®



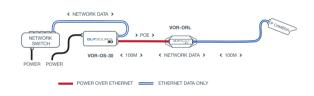
PRODUCT CODE VOR-ORL

OUTREACH LITE

- Universal Ethernet network range extender.
- Double your network range without having to install switch power cables.
- POE powered. No local power required.
- Full unrestricted network bandwidth 10/100.
- LAN extender for non-POE devices.
- Integrated mounting holes.
- | Easy to install, no set-up required.

Device Size L:105mm W:40mm H:22mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN



POWER SOURCE | POE POWERED

1 PORT GIGABIT ETHERNET & POE EXTENDER

DUTREACH® MAX G



PRODUCT CODE **VOR-ORM-G**10

OUTREACH MAX G

- Instantly doubles Gigabit Ethernet range to 200m.
- Full unrestricted Gigabit Ethernet.
- Powered by POE. No local power required.
- Easy to install, no set-up required.
- POE and POE Plus compliant (IEEE 802.3af and 802.3at and higher power 802.3bt).
- Extends POE and POE Plus up to 90W.
- Universal 10/100/1000 compatibility.

 Device Size L:119mm W:36mm H:24.5mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN & POE



POWER SOURCE | POE POWERED

1 PORT GIGABIT ETHERNET EXTENDER





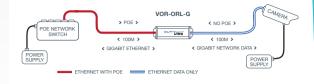
PRODUCT CODE VOR-ORL-G

OUTREACH LITE G

- Instantly doubles Gigabit Ethernet range to 200m.
- Full unrestricted Gigabit Ethernet.
- No local power required. POE powered.
- Can be daisy-chained for distances further than 200m.
- LAN extender for non-POE devices.
- Universal 10/100/1000 compatibility.
- Easy to install, no set-up. Auto-configuring.

 Device Size L:119mm W:36mm H:24.5mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN



POWER SOURCE | POE POWERED

1 PORT EXTERIOR ETHERNET & POE EXTENDER



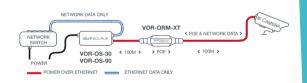
PRODUCT CODE VOR-ORM-XT

OUTREACH MAX XT

- I External version of OUTREACH Max.
- Instantly doubles cable range to 200 metres.
- Tough IP66/67 Nema 4X/6P rated enclosure for external installation. Easy to fit cable seals.
- Rated -40°C to 70°C for external use.
- Compatible with POE, POE Plus and custom POE to 90 watts.
- Powered by POE.

Device Size L:183mm W:50mm H:30mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN & POE



POWER SOURCE | POE POWERED

1 PORT EXTERIOR ETHERNET EXTENDER



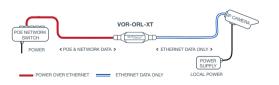
PRODUCT CODES VOR-ORL-XT

OUTREACH LITE XT

- External version of OUTREACH Lite.
- Instantly doubles cable range to 200 metres.
- Tough IP66/67 Nema 4X/6P rated enclosure for external installation. Easy to fit cable seals.
- Rated -40°C to 70°C for external use.
- Extends LAN to non-POE devices.
- POE powered, but does not forward POE.

Device Size L:183mm W:50mm H:30mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN



POWER SOURCE | POE POWERED

1 PORT EXTERIOR GIGABIT & POE EXTENDER

OUTREACH® MAX G XT



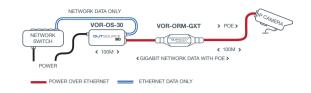
PRODUCT CODE VOR-ORM-GXT

OUTREACH MAX GXT

- External Gigabit version of OUTREACH Max.Instantly doubles cable range to 200 metres.
- Unrestricted 10Base-T. 100Base-TX.1000Base-T.
- Tough IP66/67 Nema 4X/6P rated enclosure for external installation. Easy to fit cable seals.
- Rated -40°C to 70°C for external use.
- Compatible with POE, POE Plus and custom POE to 90 watts.

Device Size L:183mm W:50mm H:30mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN & POE



POWER SOURCE | POE POWERED

1 PORT EXTERIOR GIGABIT ETHERNET EXTENDER

OUTREACH® LITE G XT



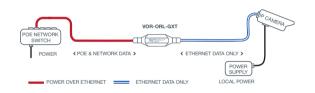
PRODUCT CODE VOR-ORL-GXT

OUTREACH LITE GXT

- External Gigabit version of OUTREACH Lite.
- Instantly doubles cable range to 200 metres.
- Tough IP66/67 Nema 4X/6P rated enclosure for external installation. Easy to fit cable seals.
- Rated -40°C to 70°C for external use.
- Extends Gigabit LAN to non-POE devices.
- POE powered, but does not forward POE.

Device Size L:183mm W:50mm H:30mm

CAT5e/6 | 100M EXTENSION PER DEVICE | LAN



POWER SOURCE | POE POWERED

Overcome Restrictions

OUTREACH POE-powered network extenders effectively double the reach of wired Ethernet on Cat5/6 cable to 200m. OUTREACH network repeaters overcome the normal 100m limit on wired Ethernet connections, adding another 100m per unit, passing through POE as required to the IP Camera or other networked device.

Max POE Power

All OUTREACH Models are powered by POE, using less than 1W and can pass through POE as required. They can handle the highest POE levels of 90W as defined by the 802.3bt standard.

Gigabit Options

Both Max and Lite (POE pass-through and non-POE pass-through) variants of OUTREACH

are available in 100Base-TX or Gigabit Ethernet versions for maximum application and installation flexibility.

External Options

Max, Lite, 100Base-TX and Gigabit variants of OUTREACH are all available in rugged external housing versions, rated to IP67 and Nema 4X/6P standards with an extended operating temperature range.

For maximum power delivery at very long distances. See product datasheets for full and detailed information.

1 PORT LONG RANGE ETHERNET & POE



VI S-1P-B Rase VLS-1P-C Camera

LONGSPAN

- Long range, ruggedised, point-to-point Ethernet over Cat5e/Cat6 adaptor.
- Unrestricted 100Base-TX with POF.
- Smart power and diagnostic display for reliable and quick installation.
- 600m on Cat6 @100Mbit/s full 25W POF Plus.
- 820m on Cat6 @100Mbit/s -15W POE delivery.
- BS EN 50121-4 (rail and metro compliant). Device Size L:120mm W:36mm H:23mm

ETHERNET TO 820M | ETHERNET WITH POE



POWER SOURCES OR POE POWERED

1 PORT LONG RANGE ETHERNET

LONGSPAN® LITE



PRODUCT CODE VLS-1N-L

LONGSPAN LITE

- Same features as LONGSPAN without POE transmission.
- Long range, ruggedised point-to-point Ethernet over Cat5e/Cat6 adaptor.
- Back-to-back pairs of LONGSPAN devices can be used to increase the maximum distance.
- I High performance over extreme temperatures.
- Fully automatic, easy to install, maintenance-free.

Device Size L:120mm W:36mm H:23mm

ETHERNET TO 820M | ETHERNET DATA ONLY



POWER SOURCES



8 PORT HI-POE ETHERNET (BASE)

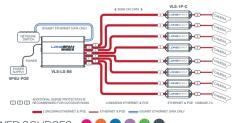


PRODUCT CODE VLS-LS-B8

LONGSPAN BASE 8

- Eight-channel LONGSPAN Base rackmountable device (32ch in 1U).
- Four x 70W ports plus four x 30W ports.
- Long range 100-Base-TX Ethernet with POE to 820 metres.
- I Integrated network switch saves on main switch ports.
- I Gigabit uplink port plus SFP socket for fibre option. Device Size L:154mm W:110mm H:40mm

ETHERNET TO 820M | ETHERNET INC. HI-POE



POWER SOURCES





1 PORT 90W LONG RANGE ETHERNET (BASE)

LONGSPAN® MAX

PRODUCT CODE VLS-LSM-B

I ONGSPAN MAX - BASE

- LONGSPAN enhanced with 90W POE (802.3bt).
- Long range point-to-point Ethernet over Cat5e or Cat6 cable.
- Unrestricted 100Base-TX with POE over 820m.
- Can deliver 60W at 200m, 40W at 350m.
- Ruggedised high performance over wide temperature range.
- Smart POE power, diagnostic display.

 Device Size L:120mm W:36mm H:23mm

ETHERNET TO 820M | ETHERNET WITH 90W POE



POWER SOURCES ••• • • OR POE POWERED

1 PORT 90W LONG RANGE ETHERNET (CAMERA)

LONGSPAN®



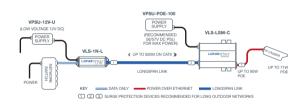
PRODUCT CODE VLS-LSM-C

LONGSPAN MAX - CAMERA

- LONGSPAN enhanced with 90W POE (802.3bt).
- Long range point-to-point Ethernet over Cat5e or Cat6 cable.
- Unrestricted 100Base-TX with POE over 820m.
- Can deliver 60W at 200m, 40W at 350m.
- Ruggedised high performance over wide temperature range.
- Smart POE power, diagnostic display.
- Fully automatic, simple to install, maintenance-free.

 Device Size L:113mm W:75mm H:22mm

ETHERNET TO 820M | ETHERNET WITH 90W POE



POWER SOURCES ON POE POWERED

4 PORT 90W LONG RANGE ETHERNET (QUAD CAMERA)

LONGSPAN® MAX QUAD

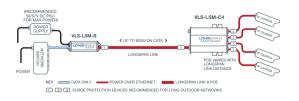
PRODUCT CODE VLS-LSM-C4

LONGSPAN MAX QUAD - CAMERA

- | Quad LONGSPAN device with 802.3bt POE.
- Long range point-to-point Ethernet over Cat5e or Cat6 cable.
- Unrestricted 100Base-TX with POE at over 820m.
- Delivers power for 4 x 13W IP cameras up to 330m from Base device.
- With local power, can deliver POE for 4 x 71W IP cameras at 820 metres.

Device Size L:113mm W:75mm H:22mm

ETHERNET TO 820M | ETHERNET WITH 90W POE



POWER SOURCES OR POE POWERED

1 PORT EXTERIOR 90W LONG RANGE ETHERNET (CAMERA)

LONGSPAN® MAXXT



PRODUCT CODE VLS-LSM-CXT

I ONGSPAN MAX XT

Max POE & bandwidth over extreme distances.

External adaptor for long range Ethernet Hi- POE.

External version of LONGSPAN Max Camera.

Long range point-to-point over Cat5e or Cat6.

Unrestricted 100Base-TX up to 820 metres.

Delivers 60W at 200 metres, 40W at 350 metres.

Robust housing rated to IP66/67/69K/Nema 4X/6.

Smart power and LED diagnostic display.

Device Size D:69mm W:113mm H:144mm

ETHERNET TO 820M | ETHERNET WITH 90W POE



POWER SOURCES | POE POWERED

ADAPTOR CABLE

PATCH CABLE ADAPTOR



PRODUCT CODE VLS-PATCH-1

- Adaptor to connect rear port of transmission devices to VLS-1U front fascia plate.
- Incorporates RJ45 network plug and short cable to fascia-mounted RJ45 network socket.
- Allows access to all ports on LONGSPAN, HIGHWIRE Longstar & LIGHTSPAN from front of VLS-1U rackmounting plate.
- Use with the 24-way fascia plate to bring the rear network connections to the front. This allows both ports of 12 devices to be front-connected.

 Device Size D:69mm W:113mm H:144mm



PATCH CABLE IN 1U RACK PLATE (VLS-1U)

BRACKET

1U 24-WAY FASCIA PLATE



PRODUCT CODE VLS-1U

- The 1U 24-way fascia plate is designed for rackmounting LONGSPAN, HIGHWIRE Longstar or LIGHTSPAN devices.
- Any combination of up to 24 devices can be installed in 1U.
- See our POE injectors and power supplies from pages 21 and 22 onwards for the most efficient power configuration for your requirements.

Device Size D:3mm W:482mm H:44mm



1U RACK PLATE (VLS-1U)

90W LONG RANGE ETHERNET LONGSPAN® MAX

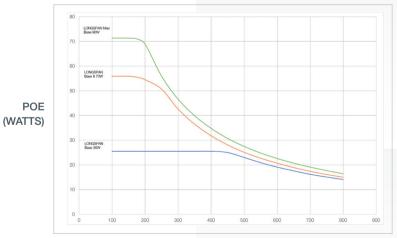
The LONGSPAN Max variants are high power versions of the LONGSPAN family, with the same extreme 820m network data range. The Max devices are IEEE 802.3bt compliant, which is the highest POE power standard of 90W. For more information on POE Standards please refer to the POE Reference Table on Page 4.

POE levels are set for the standard Ethernet distance of 90m. Veracity products such as OUTREACH and LONGSPAN overcome distance limitations, but are still subject to normal power losses in the cabling. While LONGSPAN Max can output 90W, the POE delivered to the PD drops quickly with distance, as shown in the comparison graph.

LONGSPAN (30W) and LONGSPAN Base 8 Hi-Power (70W). Note: At 450m - 500m, the power curves converge and so the higher power delivery advantage of LONGSPAN Max is minimised at longer distances.

For maximum power delivery at very long distances, a local PSU for LONGSPAN Max or Max Quad at the camera end is recommended. See product datasheets for full and detailed information.

LONGSPAN MAX POE V DISTANCE GRAPH



DISTANCE (METRES)

POWER SUPPLY KEY POWER SOURCES

57V 800mA 57V 1500mA 57V 100W POE 56V 240W POE 57V 1U RACK 8800mA 57V 1000W POE 12V UNIVERSAL PSU 24V RMPSU

LONGSPAN Max POE Range Table

POE DEVICE POWER	Cat6	Cat5e
71 WATTS	180m (590ft)	140m (459ft)
62 WATTS	200m (656ft)	155m (508ft)
51 WATTS	250m (825ft)	200m (656ft)
40 WATTS	350m (1,148ft)	280m (919ft)
25 WATTS	570m (1,870ft)	450m (1,476ft)

THE IMPORTANCE OF ACCURATE TIME

Time Synchronisation and NTP

"All CCTV and video management system installations require accurate reference time signals for synchronisation of system clocks to ensure that they are always set at precisely the correct time and recorded evidence is accurately time-stamped"

CCTV recordings must be evidentially robust. The requirements for evidentially robust recordings include verifiable time stamps. All VMS systems run on NVRs or servers with internal clocks which drift out of sync over time. It is also a fact that the evidential value of CCTV recordings is severely reduced if the recorded time stamps are not correct.

Consequently smaller VMS installations tend not to have a reference time server at all or are insecurely linked to the internet, leaving the systems open to potential cyberattacks. TIMENET Pro integrates the GPS receiver and master NTP time server into a single POE-powered cybersecure device which is directly connected to the network and can be used as a closed system.

NTP MASTER TIME SERVER

TIME**N**ET® PRO



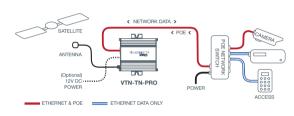
VTN-TN-PRO

TIMENET PRO
Accurate time

- Accurate time for network device synchronisation.
- Master Network Time Protocol (NTP) clock.
- Worldwide GPS-based time reference.
- Supports Windows, Linux, macOS and most embedded systems.
- Avoids use of internet time network ports.
- Compact, wall-mountable.
- Simple browser interface.
- Also perfect for mobile/vehicle applications.

 Device Size L:87mm W:75mm H:22mm

NTP GPS | MASTER NTP TIME SERVER



POWER SOURCE OR POE POWERED

TIME SERVER CABLE EXTENSION

TIME**N**ET® PRO EXTEND

PRODUCT CODE

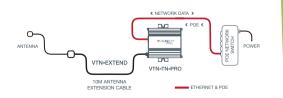


TIMENET PRO GPS EXTENSION CABLE

- 10m extension cable for GPS antenna connection for TIMENET Pro.
- Adds 10m to standard 5m cable on GPS antenna.
- Up to 25m using two extension cables.
- | TIMENET Pro (above) includes GPS antenna.
- Enables additional flexibility in siting TIMENET Pro.

Device Size L:10000mm

NTP GPS | ANTENNA EXTENSION CABLE



PRODUCT CODE VTN-EXTEND

1 PORT ETHERNET - FIBRE MEDIA CONVERTER

LIGHTSPAN™ SC100

PRODUCT CODE

VIT-SC100

LIGHTSPAN SC100

- Long distance, up to 2000m on Fibre.
- Slimline, ruggedised 100Base-FX media converter.
- Fast Ethernet speeds with fibre SC connection.
- Railway EMC compliance for harsh environments with extended temperature range.
- Fully automatic, easy to install, maintenance-free.
- Versatile power input supports legacy 12V DC / 24V AC supplies.

Device Size L:123mm (inc brackets) W:36mm H:23mm

FIBRE | 100BASE-FX AT 2000M



POWER SOURCES

1 PORT ETHERNET - COMPACT FIBRE MEDIA CONVERTER

LIGHTSPAN™ SC100 BACKBOX



PRODUCT CODE VLT-SC100-CBB

LIGHTSPAN SC100 BACKBOX

- Delivers fast Ethernet interface speeds with a fibre SC connection.
- Compact backbox format for mounting inside a camera housing.
- Ruggedised with extended temperature range.
- Railway EMC compliance for harsh environments.
- Versatile power input supports legacy 12V DC/24V/AC.
- Fully automatic, simple to install, maintenance-free.
- All connectors are on one side for easy installation.

Device Size L:61mm (inc brackets) W:67mm, H23mm

FIBRE | 100BASE-FX AT 2000M

ETHERNET & FIRDE ARRIVATION DIAGRAM





POWER SOURCE OR POE POWERED

LIGHTSPAN Fibre to Ethernet

Media Conversion

LIGHTSPAN is a ruggedised fibre to Ethernet media converter for interference free network data transmission over long distances where power is available at both ends of the connection.

Optional Format

LIGHTSPAN SC100 devices are available in two formats - a slimline format for stand-alone mounting or rackmounting and in a "backbox" format for fitting inside camera backbox housings.

Distance & Bandwidth

The LIGHTSPAN series is currently for low-cost

multimode fibre with SC100 connections using 1310nm wavelength, delivering 100Base-FX data rates up to 2.000m (at 100Mbps)

Multichannel Options

The slimline format LIGHTSPAN devices allow the assembly of multi-channel rackmounted solutions using the Veracity 1U mounting plate (also used for LONGSPAN). Up to 24 devices can be fitted in 1U.

4 + 1 PORTS POE PLUS NETWORK SWITCH

CAM**SW**ITCH® 4 PLUS

CAMSWITCH 4 PLUS

- | POE powered network switch with POE+ out.
- Compact, rugged, versatile inc. wall brackets.
- 802.3af and 802.3at compliant output.
- 57V DC input option for maximum efficiency.
- 4 + 1 ports inc. 1 x POE input port (90W).
- 4 POE output ports, up to 30W per port.
- If locally powered (power budget up to 120W).
- I Ideal for small IP camera installations.

 Device Size L:110mm W:64mm H:22mm

CAT5e/6 | ETHERNET & POE OUT

VERSATILE POWER INPUT - NETWORK SWITCH APPLICATION DIAGRAM



POWER SOURCES



4 + 1 PORTS 12V-24V POE PLUS NETWORK SWITCH

PRODUCT CODE VCS-4P1



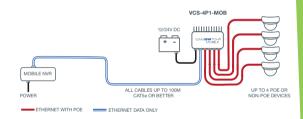
PRODUCT CODE VCS-4P1-MOB

CAMSWITCH 4 MOBILE

- Low voltage POE Plus switch for 12/24V applications.
- Install IP cameras, POE and network devices in transport, battery/solar powered, and other low voltage applications.
- 4+1, 10/100 Ethernet network switch with flexible 8.5V to 40V DC supply input (min start-up is 10.5V).
- 4 x POE+ 802.3af/at compliant output (POE power budget 80W).

Device Size L:110mm W:100mm H:40mm

CAT5e/6 | ETHERNET & POE OUT from 12/24V



POWER SOURCE | DC FROM VEHICLE

8 + 2 PORTS 12V-24V POE PLUS NETWORK SWITCH





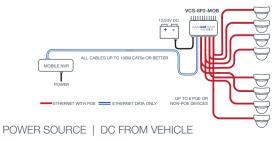
PRODUCT CODE VCS-8P2-MOB

CAMSWITCH 8 MOBILE

- Low voltage POE Plus switch for 12/24V applications.
- Install IP cameras, POE and network devices in transport, battery/solar powered, and other low voltage applications.
- 8 + 2 10/100 Ethernet network switch with flexible 8.5V to 40V DC supply input (min start-up is 10.5V).
- 8 x POE+ 802.3af/at compliant output (POE power budget 80W).

Device Size L:110mm W:100mm H:40mm

CAT5e/6 | ETHERNET & POE OUT from 12/24V



PORTABLE POE INSTALLATION TOOL

P□INTSOURCE WIRELESS™



PRODUCT CODES VAD-PSW VAD-PS-BM

POINTSOURCE WIRELESS

- Allows rapid adjustment, alignment, focus and field of view of IP camera, wirelessly on smart devices close to camera. Supports all classes of 802.3af and 802.3at POE devices.
- Removable, rechargeable battery with sufficient power for a day's installation work.
- | Spare batteries available for rapid swap over.
- USB charging point for tablets/smartphones.

 Device Size L:205mm W:100mm H:150mm

BATTERY POWERED POE INJECTOR AND WAP



POWER SOURCE | RECHARGEABLE BATTERY

PORTABLE POE INSTALLATION TOOL

P□INTSOURCE PLUS™



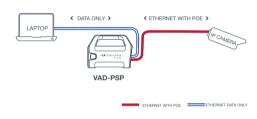
PRODUCT CODES VAD-PSP VAD-PS-BM

POINTSOURCE PLUS

- Allows rapid adjustment, alignment, focus and field of view of IP camera, on devices close to camera
- Removable, rechargeable battery with sufficient power for a day's installation work.
- Portable POE source for field use.
- Locally view IP camera on your laptop.
- Tool for installation, testing, surveys, and inspections.

Device Size L:205mm W:100mm H:150mm

BATTERY POWERED POE INJECTOR



POWER SOURCE | RECHARGEABLE BATTERY

CAMERA INSTALLATION TOOL

PINPOINTM



PINPOINT

- Allows local viewing of IP camera images on laptop close to camera.
- I Enables rapid, precise adjustment of lens focus and viewing angle. Low cost reusable device.
- Uses POE from network, no local power needed.
- Increases installation speed, less time on site.
- Installs in seconds removes in seconds.

Device Size L:65mm W:32mm H:20mm Plus 1000mm Flying Lead

CAT5e/6 | POWERED BY POE PASS THROUGH



POWER SOURCE | POE POWERED

PRODUCT CODE VAD-PP 20

POE INJECTOR



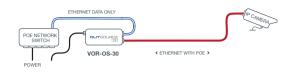
PRODUCT CODE VOR-OS-30

OUTSOURCE 30

- Delivers enhanced 30W POE to all 802.3af, 802.3at standard POE and POE Plus devices.
- Gigabit Ethernet compatible and automatically detects compatible devices.
- Delivers reliable remote power to IP cameras and POE devices. 30W Power output.
- Safety assured, POE only enabled to compliant devices. Integrated overload protection.
- Compact, wall-mountable device.

 Device Size L:161mm W:52mm H:35mm

CAT5e/6 | 30W POE SOURCE MIDSPAN INJECTOR



POWER SOURCE | MAINS POWER

POE INJECTOR

OUTSOURCE™ 90



PRODUCT CODES VOR-OS-90

OUTSOURCE 90

- Delivers highest power allowed by the POE standard (802.3bt), used for external PTZ IP cameras and high power applications.
- 802.3bt compliant and GigE compatible 90W Power output.
- Safety assured as POE is only enabled to compliant devices. Integrated overload protection.
- Compact, wall-mountable device. Sealed, fanless design for reliability.

Device Size L:167mm W:89mm H:44mm

CAT5e/6 | 90W POE SOURCE MIDSPAN INJECTOR



POWER SOURCE | MAINS POWER

POE SPLITTER

OUTBREAK™ 5V or 12V



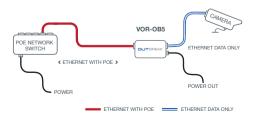
PRODUCT CODES VOR-OB5
VOR-OB12

OUTBREAK

- POE splitter with 5V or 12V DC output.
- Splits a POE connection into data-only Ethernet and separate 5V or 12V DC connection.
- Powers non-POE devices over a POE network.
- Useful for access control, alarm interfaces, sensors, etc.
- IEEE 802.3af compliant, with 10W output.

Device Size L:124mm W:55mm H:30mm Plus Flying DC Lead 150mm

CAT5e/6 | POE TO DC SPLITTER



POWER SOURCE | POE POWERED

POWER SUPPLY FOR POF

57V 800MA POWER SLIPPLY



PRODUCT CODE

VPSU-57V-800

57V 800mA POWER SUPPLY

57V DC Power Supply, (40W total budget).

Input Connector, 2-PIN IEC320, C8 Type Accepts C7 Type ("figure of 8" Power Cord).

Output Cable, 1.0m, stripped and tinned.

Needs 2-PIN Power Cord (C7) (buy separately).

(Power Cord supplied in USA).

Device Size L:114 5mm W:50mm H:30 5mm

57V 800mA POWER SLIPPLY CAN BE USED WITH:

HIGHWIRE Powerstar Base and Camera

HIGHWIRE Powerstar Duo and Quad

HIGHWIRE Longstar Base and Camera

LONGSPAN Base

CAMSWITCH 4 Plus

POWER SUPPLY FOR POE

57V 1500MA POWER SLIPPLY



PRODUCT CODE VPSU-57V-1500

57V 1500mA POWER SUPPLY

57V DC Power Supply. (78W total budget).

Input Connector, 2-PIN IEC320, C8 Type (Accepts C7 Type "figure of 8" Power Cord).

Output Cable, 1.0m, stripped and tinned.

Needs 2-PIN Power Cord (C7) (buy separately).

(Power Cord supplied in USA).

57V 1500mA POWER SUPPLY CAN BE USED WITH:

HIGHWIRE Powerstar Duo and Quad

HIGHWIRE Longstar Base and Camera

LONGSPAN Base 8

LONGSPAN Max Base and Camera

LONGSPAN Max Quad

CAMSWITCH 4 Plus

Device Size L:143mm W:64mm H:36mm

POWER SUPPLY FOR POE

POE 100W POWER SUPPLY



PRODUCT CODE VPSU-POE-100 22

57V 100W POE POWER SUPPLY

100W PSU designed for POE applications.

57V DC, 1.75A output.

Wide voltage range input.

Short circuit protection.

Overcurrent and overvoltage protection.

Auto-reset on all fault conditions.

Compact and fanless for high reliability.

Wide operating temperature range. Device Size L:150mm W:65mm H:35.5mm

57V 100W POE POWER SUPPLY CAN BE USED WITH:

HIGHWIRE Powerstar Duo and Quad

LONGSPAN Base 8

LONGSPAN Max Base and Camera

LONGSPAN Max Quad

CAMSWITCH 4 Plus

POWER SUPPLY FOR POE

POE 240W POWER SUPPLY



PRODUCT CODE VPSU-POE-240

■ 56V 240W POF POWER SUPPLY

- 240W PSU designed for HI-POE applications.
- 56V DC, 4.48A output.
- Wide voltage range input.
- Short circuit protection.
- Overcurrent and overvoltage protection.
- Auto-reset on all fault conditions.
- I Compact and fanless for high reliability.
- Wide operating temperature range.

Device Size L:150mm W:65mm H:35.5mm

56V 240W POE POWER SUPPLY CAN BE USED WITH:

- I HIGHWIRE Powerstar Base 8
 - LONGSPAN Base 8
- LONGSPAN Max Quad
- CAMSWITCH 4 Plus

1U RACKMOUNT POWER SUPPLY

1U **RACK**MOUNT POWER SUPPLY



PRODUCT CODES VPSU-57V-1U-UK
VPSU-57V-1U-US
VPSU-57V-1U-EU

■ 57V 1U RACK 8800mA POWER SUPPLY

- Rackmount POE power source in 1U format.
- Mounts with Base devices in 1U for max density, includes microfit cables to Base devices.
- Maximum 57V POE voltage for optimum power and distance.
- Integrated overload protection, UL certification.
- Dual devices can provide fully redundant power.
- Supplied with UK, EU or US 3-PIN Power Cord.

Device Size L:442mm W:130mm H:44.5mm

57V 1U RACK 8800mA POWER SUPPLY CAN BE USED WITH:

- HIGHWIRE Powerstar Base (multiple)
 - HIGHWIRE Powerstar Base 8
- HIGHWIRE Longstar Base (multiple)
- LONGSPAN Base (multiple)
- LONGSPAN Base 8
- LONGSPAN Max Base (multiple)

1000W POE POWER SUPPLY

1000W POE POWER SUPPLY



PRODUCT CODES VPSU-POE-1000-UK
VPSU-POE-1000-US
VPSU-POE-1000-EU

■ 1000W POE 1U RACK POWER SUPPLY

- 1000W 1U rackmount PSU for high power POE applications.
- 57V DC output on 4 connectors (17.5A).
- Supplied with 4 x 400mm DC patch cables.
- 2 units fit into the same rear-mounted 1U plate.
- Fits in same 1U as front-mounted Base 8 devices.
- Short-circuit, overcurrent, overvoltage protection.
- Auto-reset on fault conditions.
 - Device Size L:177mm W:290mm H:42.5mm

• 57V 1000W POE POWER SUPPLY CAN BE USED WITH:

- HIGHWIRE Powerstar Base 8
- LONGSPAN Base 8
- LONGSPAN MAX Base
 - HIGHWIRE Powerstar Base
- HIGHWIRE Longstar Base
- LONGSPAN Base

UNIVERSAL POWER SUPPLY

12V UNIVERSAL POWER SUPPLY



PRODUCT CODE VPSU-12V-U

■ 12V DC UNIVERSAL POWER SUPPLY

- 1 12V DC plug (Universal) PSU for HIGHWIRE, LONGSPAN Lite & HIGHWIRE Longstar Lite.
- Output Cable, 1.0m, stripped and tinned.
- Adaptors for UK, EU and USA can be fitted to main power device.
- Photo shows each country adaptor connected to the main device. Box contains one main device and 3 country specific adaptors.

 Device Size L:90mm W:42mm H:35mm

12V UNIVERSAL POWER SUPPLY CAN BE USED WITH:

- HIGHWIRE
- HIGHWIRE Longstar Lite
- LONGSPAN Lite
- LIGHTSPAN SC100
- LIGHTSPAN SC100 Backbox

RMPSU POWER SUPPLY

VHW RMPSU POWER SUPPLY



VHW RMPSU 24V POWER SUPPLY

- 24V DC Power Supply.
- Comes with 8-Way linking cable. (for 8x HIGHWIRE, LONGSPAN Lite and HIGHWIRE Longstar Lite devices).
- Needs a 2-PIN Power Cord (C7) (please purchase the Power Cord separately).
- (Power Cord supplied in USA).

VHW RMPSU POWER SUPPLY CAN BE USED WITH:

- HIGHWIRE
- HIGHWIRE Longstar Lite
- LONGSPAN Lite
- LIGHTSPAN SC100
- LIGHTSPAN SC100 Backbox

PRODUCT CODE VHW-RMPSU

Device Size L:114mm W:53mm H:38mm

LINKING CABLES

RMPSU-4W RMPSU-8W LINKING CABLE



RMPSU-4W RMPSU-8W

4W LINKING CABLE

- 4-Way linking cable for use with VPSU-57V-1500 to allow up to 4 devices to be powered from one Power Supply.
- Can be used with the 1U Rackmount Power Supply to power multiple single-channel base devices HIGHWIRE Powerstar, HIGHWIRE Longstar, LONGSPAN and LONGSPAN Max.

Device Size L:100mm From Microfit to Phoenix

8W LINKING CABLE

- 8-Way linking cable for use with VPSU-57V-1500 to allow up to 8 devices to be powered from one Power Supply.
- Can be used with the 1U Rackmount Power
 Supply to power multiple single-channel base
 devices HIGHWIRE Powerstar, HIGHWIRE
 Longstar, LONGSPAN, LONGSPAN Max and LIGHTSPAN.

Device Size L:100mm From Microfit to Phoenix

2-PIN POWER CORDS



PRODUCT CODES 2-PIN-UK. 2-PIN-US. 2-PIN-EU

POWER CORDS

- 2-PIN C7 Power Cord with UK, US, or EU connector, (1.8 metre Cord).
- Moulded Power Cord to meet all safety standards

THE 2-PIN POWER CORDS CAN BE USED WITH:

VHW-RMPSU POWER SUPPLY 57V 800mA POWER SUPPLY

57V 1500mA POWER SUPPLY

Note: 800mA, 1500mA - Power Cord is supplied in the USA

Device Size L:1800mm

BRACKET

1LI TRAY & FASCIA

1U BACKMOUNT TRAY & FASCIA

- 1 U Rackmount assembly for Base 8 (4 devices).
- Enables up to 4 LONGSPAN and or HIGHWIRE Base 8 devices to be mounted in 1U.
- Includes 1U fascia plate with 4 cut-outs for Base 8 devices.
- Allows up to 32 channels of Veracity network transmission to be mounted in 1U with power supplies at rear.

Veracity provides a range of different mounting brackets, rails, rackmount fascias and travs for a secure and professional finish for any Veracity IP Transmission product installation.



PRODUCT CODE VRM-TRAY-BASE

Device Size 1U High, Fits in 19in Rack

BRACKET

1LI PSLI TRAY

1U RACKMOUNT TRAY ASSEMBLY

- I 1U tray assembly for mounting up to 5 discrete VPSU-57V-1500 power supplies.
- Used with VRM-TRAY-BASE for compact 1U solution.
- Designed for use with VPSU-1500-CLAMP to hold discrete power supplies.

Device Size 1U High, Fits in 19in Rack





PRODUCT CODE VRM-TRAY-ASSY

BRACKET

HIGHWIRE WALL BRACKET



PRODUCT CODE VHW-WMB

HIGHWIRE WALL MOUNT BRACKET

- Easy to fit wall mount bracket.
- Simple solution for professional wall mounting of individual HIGHWIRE devices.
- Robust, powder coated metal bracket.

Device Size L:77mm W:46mm H:20mm

BRACKET FOR 1 DEVICE

A simple, yet highly convenient wall mounted bracket (in black) for secure mounting of individual HIGHWIRE and HIGHWIRE Powerstar devices. Can be used for either Base or Camera ends.

BRACKET

HIGHWIRE DIN-RAIL BRACKET



PRODUCT CODE VHW-DMB

HIGHWIRE DIN-RAIL BRACKET

- DIN-rail mounting bracket for HIGHWIRE (1 device).
- DIN Rail mounting adaptor for individual HIGHWIRE devices.
- | Easy-fit solution for DIN Rail installations.
- Robust, powder coated metal bracket.

Device Size L:113mm W:47mm H:42mm

BRACKET FOR 1 DEVICE

A simple, yet highly convenient DIN-rail bracket (in black) for secure mounting of individual HIGHWIRE and HIGHWIRE Powerstar devices. Can be used for either Base or Camera ends.

BRACKET

HIGHWIRE 1U BRACKET

PRODUCT CODE VHW-1U

HIGHWIRE 1U RACK BRACKET

- 1U rackmount bracket for HIGHWIRE (8 devices) to be powered from one Power Supply.
- Simple solution for rackmounting of multiple single-channel HIGHWIRE devices.
- Alternative to Base 8 unit, allows expansion of HIGHWIRE channels as required.

Device Size L:480mm W:70mm H:45mm

1U FOR RACKMOUNT | 8 DEVICES

A 1U rackmount bracket for securing up to 8 HIGHWIRE or HIGHWIRE Powerstar Base units in a rack. Use 8-way splitter cables (available separately) for convenient connection to a single power supply.

CLAMP

PSU CLAMP



PRODUCT CODES VPSU-1500-CLAMP

POWER SUPPLY CLAMP

- Clamp enables VPSU-57V-1500 power supplies to be fixed to VRM-TRAY-ASSY.
- Easy and neat solution for mounting discrete power supplies behind transmission devices.
- | Robust, powder coated metal bracket.

Device Size L:80mm W:10mm H:40mm

CLAMP FOR 1 POWER SUPPLY

This simple PSU clamp is specifically for use with the VPSU-57V-1500 power supply and the 1U PSU Tray assembly VRM-TRAY-ASSY.

CHARGER

POINTSOURCE CHARGER



PRODUCT CODE VAD-CHARGER

BATTERY CHARGER FOR POINTSOURCE

- Additional battery charger for Veracity POINTSOURCE devices.
- Multi-country plug adaptors are included.

Device Size L:90mm W:42mm H:32mm

CHARGER FOR INSTALLATION TOOL

A spare or additional charger for POINTSOURCE battery packs. It is used most often with additional battery modules (also available), so a spare battery can be charged when the other is in use. Good to have a spare.

Never run out of power. Handy additional USB Port to charge your phone is located on the front of the POINTSOURCE device.

BATTERY

POINTSOURCE BATTERY



PRODUCT CODE

VAD-SPS-BM

SPARE BATTERY

- Complete plug-in spare battery module for POINTSOURCE camera installation tools for onsite installations.
- Spare batteries can be charged whilst one is in use. Lasts for a full working day.

Device Size L:205mm W:100 H:150

SPARE BATTERY FOR INSTALLATION TOOL

This utility range comprises spare or additional battery modules and battery chargers for our POINTSOURCE IP camera installations tool which generate portable POE on the go.

A spare or additional battery for POINTSOURCE battery packs. It is used most often with an additional charger, so a spare battery can be chargied when the other is in use.



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