veracity

ETHERNET OVER COAX
HIGHWIRE
Series

LONG RANGE ETHERNET OVER COAX
HIGHWIRE
Longstar Series

ETHERNET EXTENDERS
OUTREACH
Series

LONG RANGE ETHERNET
LONGSPAN
Series

FIBRE TO ETHERNET
LIGHTSPAN

NTP TIME SERVER
TIMENET Pro

CAMERA INSTALLATION TOOLS
POINTSOURCE
PINPOINT

POWER SUPPLIES INJECTORS
OUTSOURCE
Series

IP TRANSMISSION
PRODUCT
GUIDE

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POWER SOURCES

- **57V 800mA** Power Supply
- **57V 1500mA** Power Supply
- **57V 100W POE** Power Supply
- **56V 240W POE** Power Supply
- **57V 1U RACK 8800mA** Power Supply
- **12V UNIVERSAL** Power Supply
- **24V RMPSU** Power Supply

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 of 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.

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POE REFERENCE TABLE

POE CLASS	IEEE 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

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

CONTENTS

1 PORT ETHERNET OVER COAX

HIG**HW**IRE®
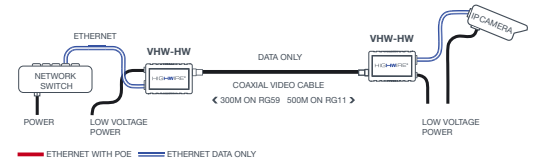
PRODUCT CODE   **VHW-HW**

HIGHWIRE

| 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 🔵🟡

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1 PORT POE OVER COAX
(BASE + CAMERA)

HIG**HW**IRE®
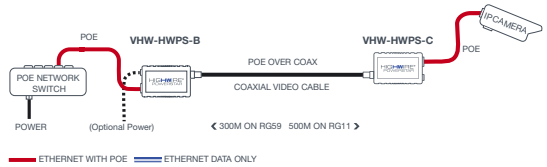POWERSTAR

PRODUCT CODES
Base   **VHW-HWPS-B**
Camera   **VHW-HWPS-C**

HIGHWIRE POWERSTAR

| Upgrade analogue to IP cameras - no recabling.
| Same as HIGHWIRE with POE 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 POE POWERED

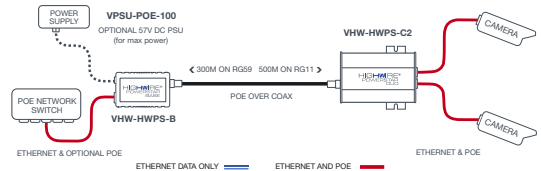## 2 PORT POE OVER COAX (CAMERA)

HIG**HW**IRE®
POWERSTAR
DUO

PRODUCT CODE   **VHW-HWPS-C2**

6

HIGHWIRE POWERSTAR DUO

| Replace 1 analogue camera with 2 IP cameras without the need to recable.
| Combines standard HIGHWIRE with two-port POE 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 POE POWERED

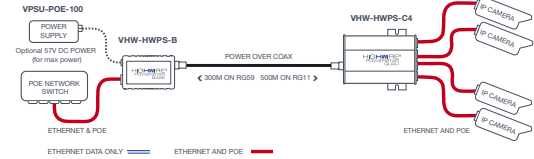## 4 PORT POE OVER COAX (CAMERA)

HIG**HW**IRE®
POWERSTAR
QUAD

PRODUCT CODE   **VHW-HWPS-C4**

HIGHWIRE POWERSTAR QUAD

| Replace 1 analogue camera with up to 4 IP cameras without recabling.
| 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

VPSU-POE-100
POWER SUPPLY
Optional 57V DC POWER (for max power)
POE NETWORK SWITCH
VHW-HWPS-B
POWER OVER COAX
300M ON RG59 500M ON RG11
VHW-HWPS-C4
IP CAMERA
IP CAMERA
IP CAMERA
IP CAMERA
ETHERNET & POE
ETHERNET AND POE
ETHERNET DATA ONLY   ETHERNET AND POE

POWER SOURCES   ● ● ●   OR POE POWERED

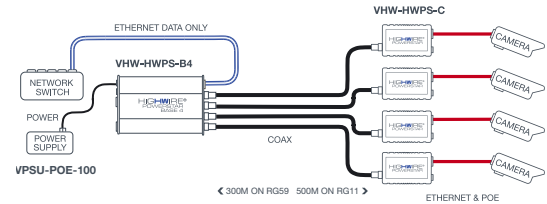## 4 PORT POE OVER COAX (BASE)

HIG**HW**IRE®
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 POE 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

ETHERNET DATA ONLY
VHW-HWPS-C
NETWORK SWITCH
VHW-HWPS-B4
POWER
POWER SUPPLY
VPSU-POE-100
COAX
300M ON RG59 500M ON RG11
CAMERA
CAMERA
CAMERA
CAMERA
ETHERNET & POE
UP TO 300M ON RG59 / 500M ON RG11
ETHERNET & POE   ETHERNET DATA ONLY

POWER SOURCES ● ● ● ●

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8 PORT POE OVER COAX (BASE)

HIG**HW**IRE®
POWERSTAR
BASE 8

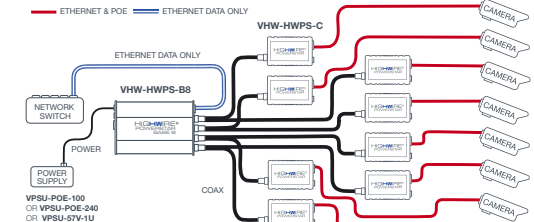PRODUCT CODE   **VHW-HWPS-B8**

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

ETHERNET & POE   ETHERNET DATA ONLY
VHW-HWPS-C
ETHERNET DATA ONLY
VHW-HWPS-B8
NETWORK SWITCH
POWER
POWER SUPPLY
VPSU-POE-100
OR VPSU-POE-240
OR VPSU-57V-1U
COAX
CAMERA
CAMERA
CAMERA
CAMERA
CAMERA
CAMERA
CAMERA
CAMERA
ETHERNET & POE

POWER SOURCES ● ● ●

4 PORT POE OVER COAX (BASE)

HIGHWIRE®
POWERSTAR
BASE 4 LINKLOCK
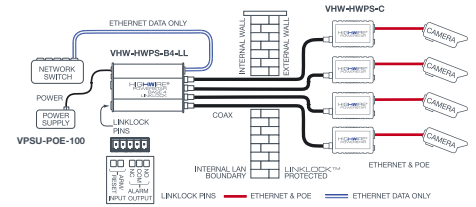

PRODUCT CODE **VHW-HWPS-B4-LL**

HIGHWIRE POWERSTAR BASE 4 LINKLOCK

| Tamper-proof Ethernet and POE over coax.
| Relay contact alarm output on tamper, with reset pins.
| Interference with cable shuts channel immediately.
| Reuses existing coax cabling.
| Fully automatic configuration. Simple installation.
| Gigabit Ethernet network uplink - SFP port for optional fibre uplink.
 Device Size L:173mm W:110mm H:22mm

COAX TO 500M | TAMPER-PROOF POE OVER COAX

POWER SOURCES

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8 PORT POE OVER COAX (BASE)
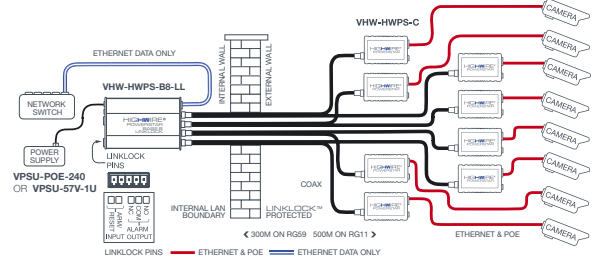
HIGHWIRE®
POWERSTAR
BASE 8 LINKLOCK

PRODUCT CODE **VHW-HWPS-B8-LL**

HIGHWIRE POWERSTAR BASE 8 LINKLOCK

| Tamper-proof Ethernet and POE over coax.
| Eight Tamper-proof channels per Base device.
| Relay contact alarm output on tamper, with reset pins.
| Interference with cable shuts channel.
| Gigabit uplink port - fibre option via SFP socket.
| Fully automatic configuration. Simple installation.
| Full-duplex 100Base-TX on each coax.

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

COAX TO 500M | TAMPER-PROOF POE OVER COAX

POWER SOURCES

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1 PORT LONG RANGE POE OVER COAX (BASE & CAMERA)

HIGHWIRE®
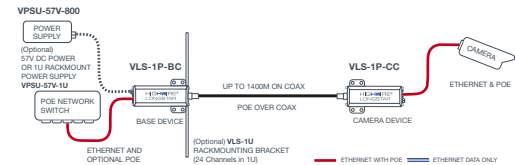# LONGSTAR

PRODUCT CODES
Base   **VLS-1P-BC**
Camera   **VLS-1P-CC**

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

8

1 PORT LONG RANGE ETHERNET OVER COAX
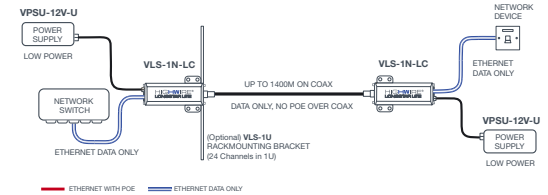
HIGHWIRE® LONGSTAR LITE

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

VPSU-12V-U
POWER SUPPLY
LOW POWER
VLS-1N-LC
NETWORK SWITCH
ETHERNET DATA ONLY
(Optional) VLS-1U RACKMOUNTING BRACKET (24 Channels in 1U)
UP TO 1400M ON COAX
DATA ONLY, NO POE OVER COAX
VLS-1N-LC
NETWORK DEVICE
ETHERNET DATA ONLY
VPSU-12V-U
POWER SUPPLY
LOW POWER
— ETHERNET WITH POE   — ETHERNET DATA ONLY

POWER SOURCES ●

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4 PORT POE OVER COAX BUNDLE
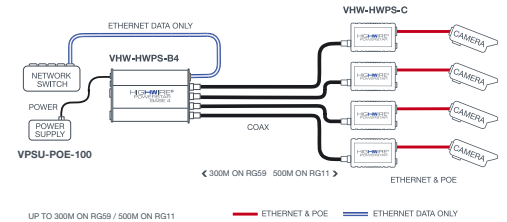
HIGHWIRE® ENCODER REPLACEMENT KIT

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

ETHERNET DATA ONLY
VHW-HWPS-B4
NETWORK SWITCH
POWER
POWER SUPPLY
VPSU-POE-100
VHW-HWPS-C
CAMERA
CAMERA
CAMERA
CAMERA
COAX
‹ 300M ON RG59   500M ON RG11 ›
ETHERNET & POE
UP TO 300M ON RG59 / 500M ON RG11
— ETHERNET & POE   — ETHERNET DATA ONLY

POWER SOURCE | ● 57V 1500mA INCLUDED IN BUNDLE

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1 PORT COMPACT POE OVER COAX
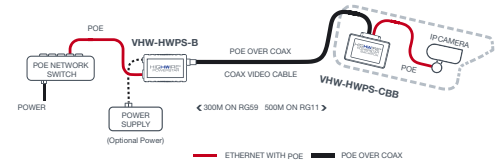(CAMERA)

HIGHWIRE® POWERSTAR BACKBOX

PRODUCT CODE **VHW-HWPS-CBB**

HIGHWIRE BACKBOX

| Upgrade analogue to IP cameras - no re-cabling.
| Compact device for inside cameras 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

POE
VHW-HWPS-B
POE OVER COAX
IP CAMERA
POE NETWORK SWITCH
COAX VIDEO CABLE
VHW-HWPS-CBB
POE
POWER
POWER SUPPLY
(Optional Power)
‹ 300M ON RG59   500M ON RG11 ›
— ETHERNET WITH POE   — POE OVER COAX

POWER SOURCE | POE POWERED
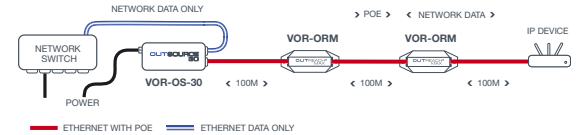
1 PORT ETHERNET & POE EXTENDER

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 (1device/2devices).

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

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

NETWORK DATA ONLY
NETWORK SWITCH
POWER
VOR-OS-30
POE
NETWORK DATA
VOR-ORM
VOR-ORM
IP DEVICE
100M 100M 100M
ETHERNET WITH POE ETHERNET DATA ONLY

POWER SOURCE | POE POWERED
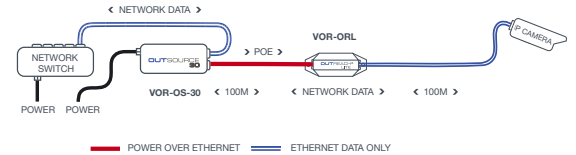
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1 PORT ETHERNET EXTENDER

OUTREACH®
LITE

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

NETWORK DATA
NETWORK SWITCH
POWER POWER
VOR-OS-30
POE
VOR-ORL
NETWORK DATA
IP CAMERA
100M 100M
POWER OVER ETHERNET ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

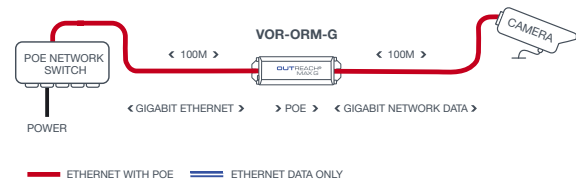## 1 PORT GIGABIT ETHERNET & POE EXTENDER

OUTREACH®
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

POE NETWORK SWITCH
POWER
100M VOR-ORM-G 100M
CAMERA
GIGABIT ETHERNET POE GIGABIT NETWORK DATA
ETHERNET WITH POE ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

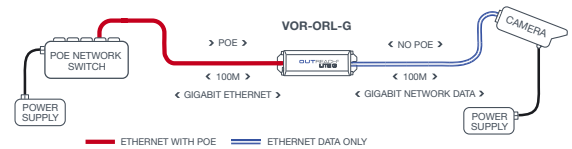## 1 PORT GIGABIT ETHERNET EXTENDER

OUTREACH®
LITE G

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

VOR-ORL-G

POE NETWORK SWITCH
POWER SUPPLY
> POE >
< 100M <
< GIGABIT ETHERNET >
< NO POE <
< 100M >
< GIGABIT NETWORK DATA >
CAMERA
POWER SUPPLY

ETHERNET WITH POE   ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

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1 PORT EXTERIOR ETHERNET & POE EXTENDER

OUTREACH®
MAX XT

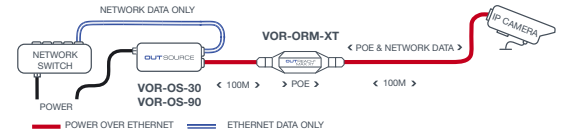PRODUCT CODE   **VOR-ORM-XT**

OUTREACH MAX XT

| 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 -40ºC to 70ºC 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

NETWORK DATA ONLY
VOR-ORM-XT
NETWORK SWITCH
POWER
OUTSOURCE
VOR-OS-30
VOR-OS-90
< 100M >
> POE >
< POE & NETWORK DATA <
< 100M >
IP CAMERA

POWER OVER ETHERNET   ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

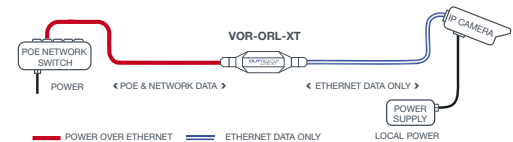## 1 PORT EXTERIOR ETHERNET EXTENDER

OUTREACH®
LITE XT

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 -40ºC to 70ºC 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

POE NETWORK SWITCH
POWER
VOR-ORL-XT
< POE & NETWORK DATA >
< ETHERNET DATA ONLY >
IP CAMERA
POWER SUPPLY
LOCAL POWER

POWER OVER ETHERNET   ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

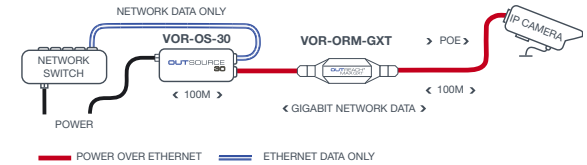## 1 PORT EXTERIOR GIGABIT & POE EXTENDER

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 -40ºC to 70ºC 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

NETWORK DATA ONLY
VOR-OS-30
NETWORK SWITCH
POWER
VOR-ORM-GXT
POE
IP CAMERA
100M
100M
GIGABIT NETWORK DATA

POWER OVER ETHERNET   ETHERNET DATA ONLY

POWER SOURCE | POE POWERED

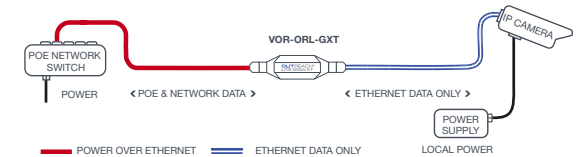## 1 PORT EXTERIOR GIGABIT ETHERNET EXTENDER

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 -40ºC to 70ºC 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

VOR-ORL-GXT
POE NETWORK SWITCH
POWER
POE & NETWORK DATA
ETHERNET DATA ONLY
IP CAMERA
POWER SUPPLY

POWER OVER ETHERNET   ETHERNET DATA ONLY   LOCAL POWER

POWER SOURCE | POE POWERED
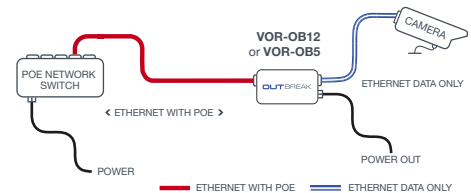

POE SPLITTER

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

VOR-OB12 or VOR-OB5
POE NETWORK SWITCH
ETHERNET WITH POE
POWER
CAMERA
ETHERNET DATA ONLY
POWER OUT

ETHERNET WITH POE   ETHERNET DATA ONLY

POWER SOURCE | POE POWERED
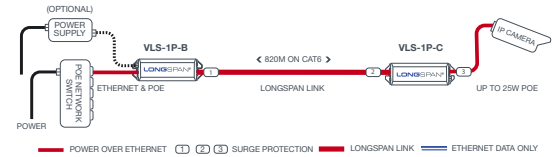
1 PORT LONG RANGE ETHERNET & POE

LONGSPAN®

PRODUCT CODES
Base **VLS-1P-B**
Camera **VLS-1P-C**

LONGSPAN

| Long range, ruggedised, point-to-point Ethernet over Cat5e/Cat6 adaptor.
| Unrestricted 100Base-TX with POE.
| Smart power and diagnostic display for reliable and quick installation.
| 600m on Cat6 @100Mbit/s - full 25W POE 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
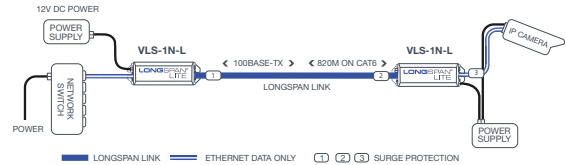
---

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.
| 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 ● ●

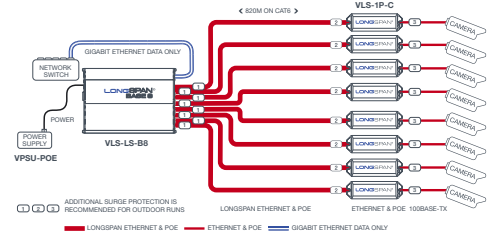
8 PORT HI-POE ETHERNET (BASE)

LONGSPAN® BASE 8

PRODUCT CODE **VLS-LS-B8**

LONGSPAN BASE 8

| Eight-channel LONGSPAN Base rack-mountable device (32ch in 1U).
| Four x 70W ports plus four x 30W ports.
| Long range 100-Base-TX Ethernet with POE to 820 metres.
| Integrated network switch saves on main switch ports.
| 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 ● ● ● ● ● OR POE POWERED

1 PORT 90W LONG RANGE ETHERNET
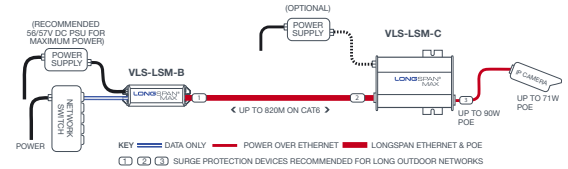(BASE)

LONGSPAN®
MAX

PRODUCT CODE **VLS-LSM-B**

LONGSPAN 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

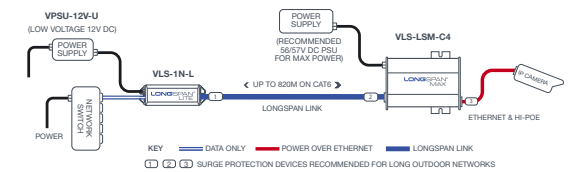## 1 PORT 90W LONG RANGE ETHERNET
(CAMERA)

LONGSPAN®
MAX

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 ●●● OR 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
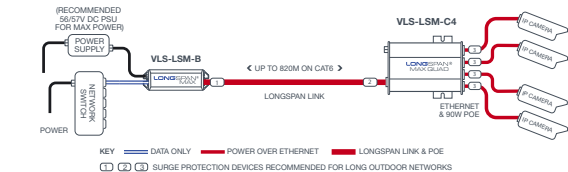
90W LONG RANGE ETHERNET

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.

Please see the POE Reference Table on Page 4. POE levels are set for the standard Ethernet distance of 90m.
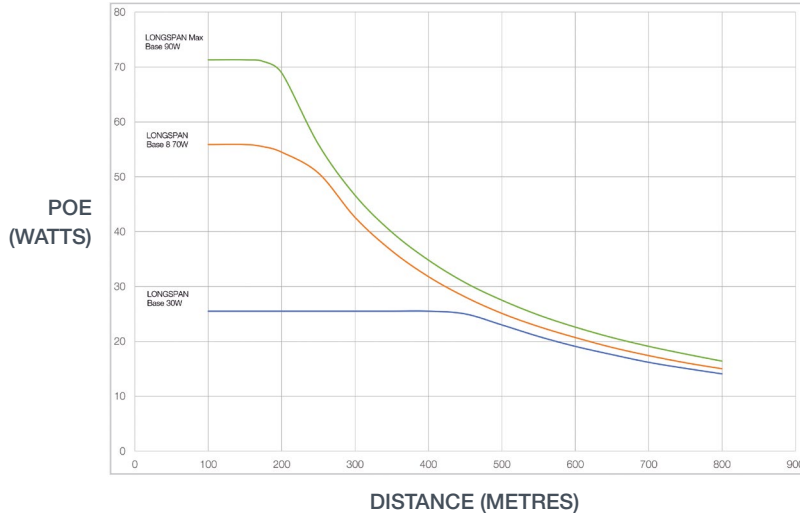
Veracity products such as OUTREACH and LONGSPAN overcome distance limitations, but are still subject to normal power losses in the cabling.

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

POE (WATTS) vs **DISTANCE (METRES)**

Curves: LONGSPAN Max Base 90W, LONGSPAN Base 8 70W, LONGSPAN Base 30W

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)

POWER SUPPLY KEY

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

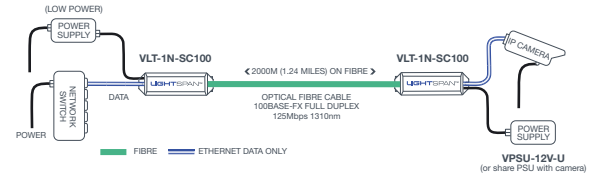## 1 PORT ETHERNET - FIBRE MEDIA CONVERTER

LIGHTSPAN™ SC100

PRODUCT CODE **VLT-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

(LOW POWER)
POWER SUPPLY
VLT-1N-SC100
◄ 2000M (1.24 MILES) ON FIBRE ►
VLT-1N-SC100
IP CAMERA
NETWORK SWITCH
DATA
OPTICAL FIBRE CABLE
100BASE-FX FULL DUPLEX
125Mbps 1310nm
POWER
POWER SUPPLY
FIBRE
ETHERNET DATA ONLY
VPSU-12V-U
(or share PSU with camera)

POWER SOURCES

NTP MASTER TIME SERVER

TIMENET® PRO
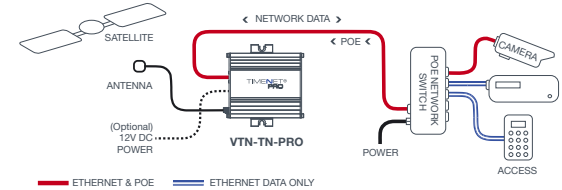
PRODUCT CODE **VTN-TN-PRO**

TIMENET PRO

| 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

◄ NETWORK DATA ►
SATELLITE
◄ POE ◄
CAMERA
ANTENNA
POE NETWORK SWITCH
(Optional)
12V DC POWER
VTN-TN-PRO
POWER
ACCESS
ETHERNET & POE
ETHERNET DATA ONLY

POWER SOURCE ● OR POE POWERED

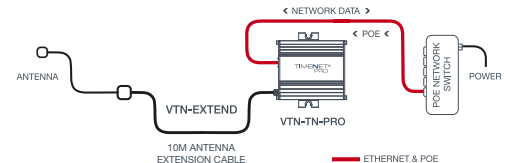---

TIME SERVER CABLE EXTENSION

TIMENET® PRO EXTEND

PRODUCT CODE **VTN-EXTEND**

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

◄ NETWORK DATA ►
◄ POE ◄
ANTENNA
POE NETWORK SWITCH
POWER
VTN-EXTEND
VTN-TN-PRO
10M ANTENNA EXTENSION CABLE
ETHERNET & POE

Time Synchronisation and NTP explained

"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"

Video surveillance systems can ultimately prove what happened, where it happened, exactly when it happened, and nowadays is usually able to provide information to help identify the persons and/or vehicles involved. Thus such recordings must be evidentially robust. The requirements for evidentially robust recordings include verifiable time stamps. However, sometimes even the most sophisticated, high-end CCTV and VMS installations can be let down by something as simple as having the clocks set at the incorrect time. 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.

The traditional solution to providing an accurate reference time has been to use an atomic clock radio receiver or GPS sensor linked to an expensive rack-mounted master clock server, separately powered and sometimes only with a serial output to a separate server for NTP transmission. Consequently smaller VMS installations tend not to have a reference time server at all or are insecurely linked to the internet to get a time signal, leaving the systems open to cyberattack.

TIMENET Pro integrates the GPS receiver and master NTP time server into a single POE-powered cyber-secure device which is directly connected to the network and can be used as a closed system. TIMENET Pro is extremely compact, can be wall-mounted, uses very little power, is very reliable over many years and is less than half the cost of competing solutions.

About NTP
NTP stands for Network Time Protocol and is a universal standard for time synchronisation of computers or other devices on a network. TIMENET Pro is NTP-compatible and acts as a time server for any NTP-enabled client.

About UTC Time
Universal co-ordinated time is an official worldwide atomic clock standard for time, agreed by national standards around the world.

About GPS
GPS is a global satellite system used primarily for position location, using very accurate atomic clock references. GPS signals are far less prone to interference than traditional national radio clock signals. Thus TIMENET Pro is a universal solution which can be used anywhere in the world.

About Time Zone
UTC is effectively a GMT reference time and TIMENET Pro provides this via NTP as a universal reference. All data is recorded with a UTC time reference. It's the task of the network device (server or PC) to define the local time zone setting for the country or zone location, including local or national variations to daylight savings time or equivalent.

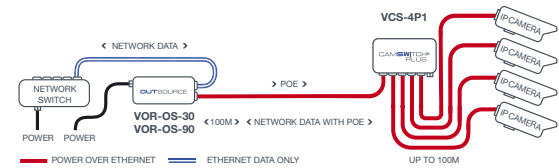## 4 + 1 PORTS POE PLUS NETWORK SWITCH

CAMSWITCH® 4 PLUS

PRODUCT CODE **VCS-4P1**

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).
| Ideal for small IP camera installations.
Device Size L:110mm W:64mm H:22mm

CAT5e/6 | ETHERNET & POE OUT

VCS-4P1

NETWORK DATA

NETWORK SWITCH
POWER POWER

OUTSOURCE
VOR-OS-30
VOR-OS-90

POE

<100M NETWORK DATA WITH POE

IP CAMERA
IP CAMERA
IP CAMERA
IP CAMERA

POWER OVER ETHERNET   ETHERNET DATA ONLY   UP TO 100M

POWER SOURCES ● ● ● ●

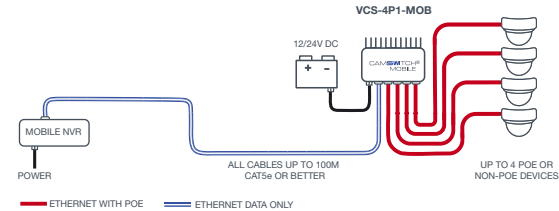## 4 + 1 PORTS 12V-24V POE PLUS NETWORK SWITCH

CAMSWITCH® 4 MOBILE

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

VCS-4P1-MOB

12/24V DC

MOBILE NVR
POWER

ALL CABLES UP TO 100M CAT5e OR BETTER

UP TO 4 POE OR NON-POE DEVICES

ETHERNET WITH POE   ETHERNET DATA ONLY

POWER SOURCE | DC FROM VEHICLE

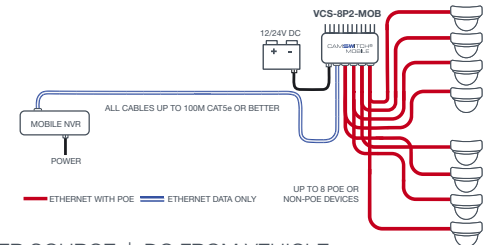## 8 + 2 PORTS 12V-24V POE PLUS NETWORK SWITCH

CAMSWITCH® 8 MOBILE

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

VCS-8P2-MOB

12/24V DC

MOBILE NVR
POWER

ALL CABLES UP TO 100M CAT5e OR BETTER

UP TO 8 POE OR NON-POE DEVICES

ETHERNET WITH POE   ETHERNET DATA ONLY

POWER SOURCE | DC FROM VEHICLE
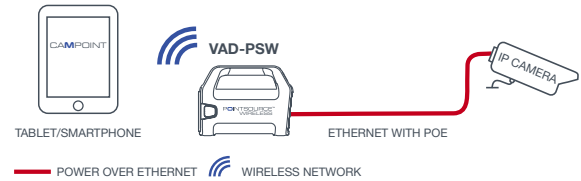
PORTABLE POE INSTALLATION TOOL

POINTSOURCE 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

CAMPOINT
TABLET/SMARTPHONE
VAD-PSW
IP CAMERA
ETHERNET WITH POE
POWER OVER ETHERNET WIRELESS NETWORK

POWER SOURCE | RECHARGEABLE BATTERY

PORTABLE POE INSTALLATION TOOL

POINTSOURCE 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, inspections.

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

BATTERY POWERED POE INJECTOR

LAPTOP
‹ DATA ONLY › ‹ ETHERNET WITH POE ›
POINTSOURCE PLUS
IP CAMERA

POWER SOURCE | RECHARGEABLE BATTERY

WIRELESS INSTALLATION TOOL

PINPOINT™ WIRELESS

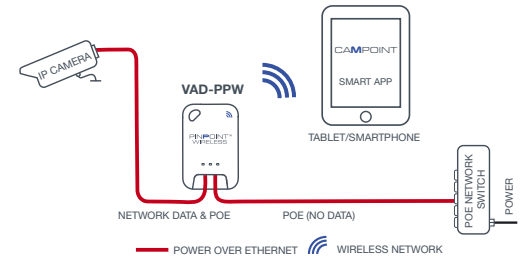PRODUCT CODE VAD-PPW

PINPOINT WIRELESS

| Allows local viewing, with wireless link of IP camera images on smartphone, tablet or laptop close to camera.
| Enables rapid, precise adjustment of lens focus and viewing angle.
| Uses Power over Ethernet from the network no local power is required. Uses only 2W.
| Installs in seconds – removes in seconds.
| CAMPOINT Installation App for iOS & Android.
Device Size L:128mm W:82mm H:28mm

CAT5e/6 | WAP POWERED BY POE PASS THROUGH

IP CAMERA
VAD-PPW
PINPOINT WIRELESS
CAMPOINT
SMART APP
TABLET/SMARTPHONE
POE NETWORK SWITCH
POWER
NETWORK DATA & POE POE (NO DATA)
POWER OVER ETHERNET WIRELESS NETWORK

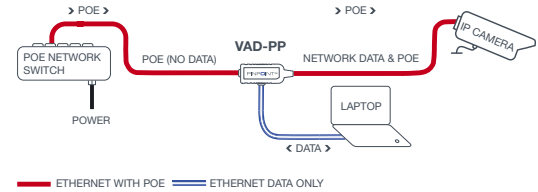POWER SOURCE | POE POWERED

CAMERA INSTALLATION TOOL

PINPOINT™

PRODUCT CODE **VAD-PP**

PINPOINT

| Allows local viewing of IP camera images on laptop close to camera.
| Enables rapid, precise adjustment of lens focus and viewing angle. Low cost reuseable 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

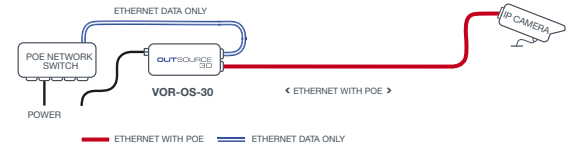POWER SOURCE | POE POWERED

POE INJECTOR

OUTSOURCE™ 30

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

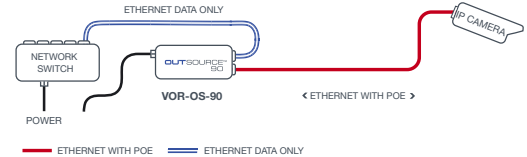POWER SOURCE | MAINS POWER

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

POWER SUPPLY FOR POE

57V 800MA
POWER SUPPLY

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 SUPPLY CAN BE USED WITH:

| HIGHWIRE Powerstar Base and Camera
| HIGHWIRE Powerstar Base 4 and Base 4 Linklock
| HIGHWIRE Powerstar Base 8 and Base 8 Linklock
| HIGHWIRE Powerstar Duo and Quad
| HIGHWIRE Longstar Base and Camera
| LONGSPAN Base
| CAMSWITCH 4 Plus

POWER SUPPLY FOR POE

57V 1500MA
POWER SUPPLY

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).

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

● 57V 1500mA POWER SUPPLY CAN BE USED WITH:

| HIGHWIRE Powerstar Base 4 and Base 4 Linklock
| HIGHWIRE Powerstar Base 8 and Base 8 Linklock
| HIGHWIRE Powerstar Duo and Quad
| HIGHWIRE Longstar Base and Camera
| LONGSPAN Base 8
| LONGSPAN Max Base and Camera
| LONGSPAN Max Quad
| CAMSWITCH 4 Plus

POWER SUPPLY FOR POE

POE 100W
POWER SUPPLY

PRODUCT CODE **VPSU-POE-100**

● 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 Base 4 and Base 4 Linklock
| HIGHWIRE Powerstar Base 8 and Base 8 Linklock
| 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 POE 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.
| 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:

| HIGHWIRE Powerstar Base 8
| HIGHWIRE Powerstar Base 8 Linklock
| LONGSPAN Base 8
| LONGSPAN Max Quad
| CAMSWITCH 4 Plus

1U RACKMOUNT POWER SUPPLY

1U RACKMOUNT
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 Powerstar Base 8 Linklock
| HIGHWIRE Longstar Base (multiple)
| LONGSPAN Base (multiple)
| LONGSPAN Base 8
| LONGSPAN Max Base (multiple)

UNIVERSAL POWER SUPPLY

12V UNIVERSAL
POWER SUPPLY

PRODUCT CODE **VPSU-12V-U**

● 12V DC UNIVERSAL POWER SUPPLY
| 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 adapter 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

VHW RMPSU POWER SUPPLY

PRODUCT CODE **VHW-RMPSU**

● 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).
   Device Size L:114mm W:53mm H:38mm

● VHW RMPSU POWER SUPPLY CAN BE USED WITH:

| HIGHWIRE
| HIGHWIRE Longstar Lite
| LONGSPAN Lite
| LIGHTSPAN SC100

ACCESSORIES

RMPSU-4W RMPSU-8W LINKING CABLE

PRODUCT CODES **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 and LONGSPAN Max.

Device Size L:100mm From Microfit to Phoenix

2-PIN POWER CORDS

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.

Device Size L:1800mm

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

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