ETHERNET OVER COAX

HIGHWIRE™

VHW-HW

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

FEATURES & BENEFITS

- Uses legacy coaxial cabling - cuts installation costs
- HIGHWIRE supports HD and Mega-Pixel cameras
- Fully transparent duplex 100Base-T Ethernet
- Simple to install - no IP address or other setup
- Up to 300 metres on RG59, or 500 metres on RG11
- 12-40V DC or 24V AC power input

COAX - 500m MAX

- 500m on RG11 @100Mbit/s (Full Duplex)
- 300m on RG59 @100Mbit/s (Full Duplex)

NOTES

Each unit requires 10 - 40V DC (140mA at 12V) or 20 - 28V AC (70mA at 24V) power supply.

If legacy power is not available, use the Veracity 12V DC PSU (product code VPSU-12V-U) which is designed for use with Veracity products.

Each link requires two HIGHWIRE units. The same partcode is used at each end of the link.

ETHERNET AND POE OVER COAX

HIGHWIRE POWERSTAR™

VHW-HWPS-B
VHW-HWPS-C

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

FEATURES & BENEFITS

- Upgrade from analogue to IP cameras without recabling
- Same features as HIGHWIRE with the addition of POE over coax
- POE switch powers HW Base unit, HW Camera unit 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 delivery at IP camera using 57V DC PSU

COAX - 500m MAX
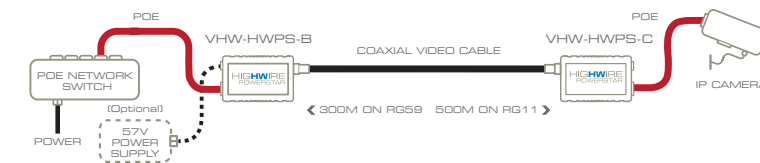
- 500m on RG11 @100Mbit/s (Full Duplex)
- 300m on RG59 @100Mbit/s (Full Duplex)

NOTES

Each link requires two units - a BASE unit and a CAMERA unit.

The VHW-HWPS-C unit is auto-sensing, so will not output POE to the camera if it is not required, or if a non-POE device is connected

The optional 57V DC PSU (product code VPSU-57V-800) allows for higher power delivery at greater distances.

The CAMERA device can be externally powered with the 57V DC supply if required (therefore a standard HIGHWIRE can be used at the base end).

Back-to-back pairs of POWERSTAR units can be used to increase the maximum distance to the camera.

4- PORT ETHERNET OVER COAX

HIGHWIRE QUAD™
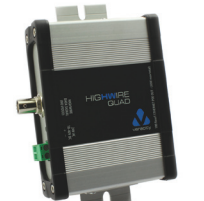
VHW-HWQ

L:110mm W:91mm H:32mm

FEATURES & BENEFITS

- Replace 1 analogue camera with up to 4 IP cameras without recabling
- Supports up to four HD or mega-pixel cameras over one coax link
- Combines standard HIGHWIRE with four-port POE network switch
- 12-40V DC or 24V AC power input (can use analogue camera PSU)
- Uses standard HIGHWIRE at base end
- Wall mountable, simple installation, no configuration required
- VHW-HWQ is auto-sensing, so will not output POE to the camera if it is not required / if a non-POE device is connected.

COAX - 500m MAX
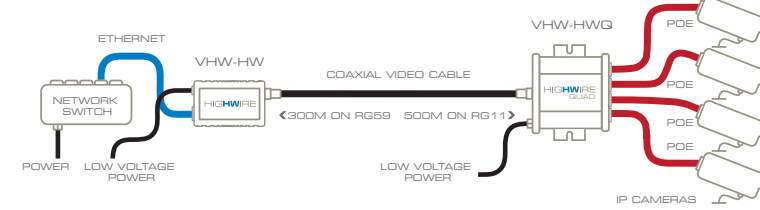
- 500m on RG11 @100Mbit/s (Full Duplex)
- 300m on RG59 @100Mbit/s (Full Duplex)

NOTES

The unit requires a 10 - 40V DC (3.2A at 12V) or a 20 - 28V AC (1.6A at 24V) power supply.

If legacy power is not available, use the Veracity 24V DC PSU (product code VQ-24V) which is designed for use with Veracity's products.

A total POE power budget of 30W is available, allowing 4 x (Class 1 or 2) or 2 x (Class 0 or 3) devices.

VHW-HWQ is auto-sensing, so will not output POE to the camera if it is not required / if a non-POE device is connected

LAN AND POE EXTENDER
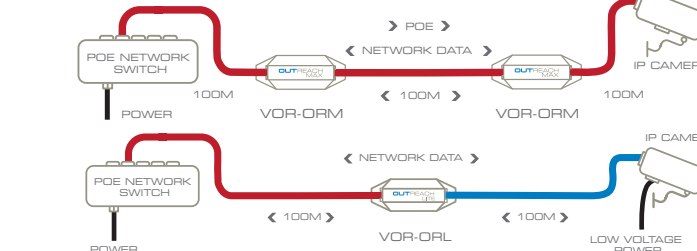
OUTREACH MAX™
OUTREACH LITE™

VOR-ORM
VOR-ORL

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

FEATURES & BENEFITS

- Powered by POE and extends Cat5/6 Ethernet by 100 metres
- Daisy-chain units to reach up to 1000 metres (9 units)
- Easy to install, no set-up required
- POE and POE Plus compliant (IEEE 802.3af & 802.3at)
- Handles up to 60W high-power POE delivery at 200m (1 unit)
- Use OUTREACH Lite version to extend network to non-POE devices

CAT5/6 - 100m EXTENSION PER UNIT

NOTES

Multiple OUTREACH Max units can be used in series to extend the network reach.

Maximum distance is dependant on POE source and power requirement of POE device.

If the destination device is not POE then an OUTREACH Lite should be used at the end of a chain of Max units, or a single Lite unit used if 200m or less is required.

EXTERNAL LAN AND POE EXTENDER

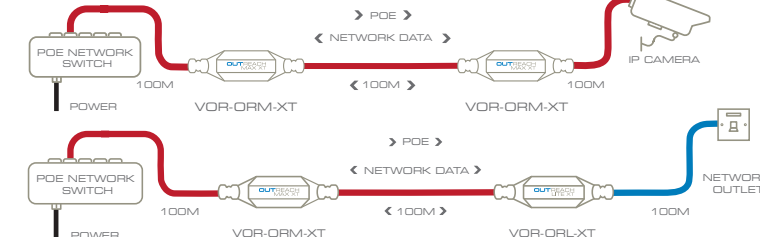### OUTREACH MAX XT™
OUTREACH LITE XT™

VOR-ORM-XT
VOR-ORL-XT

L:210mm W:50mm H:31mm

FEATURES & BENEFITS

- External version of OUTREACH Max/Lite
- Same principle features as OUTREACH Max/Lite above
- Rated -40ºC to +60ºC for external use
- Tough IP66 case & seals allows use of standard RJ45 connectors
- Wall mountable (recommended horizontal mounting)
- 100m extension per unit - maximum 1000m (chain of 9 units)
- Handles up to 60W high-power POE delivery at 200m (1 unit)

CAT5/6 - 100m EXTENSION PER UNIT

NOTES

Multiple OUTREACH Max XT units can be used in series to extend the network reach.

Maximum distance is dependent on POE source and power requirement of POE device.

If the destination device is not POE then an OUTREACH Lite XT should be used at the end of a chain of OUTREACH Max XT units, or a single OUTREACH Lite XT unit used if 200 metres or less is required.

LONG RANGE ETHERNET AND POE

### LONGSPAN™
LONGSPAN LITE™

VLS-1P-B
VLS-1P-C
VLS-1N-L

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

FEATURES & BENEFITS

- Long range point-to-point Ethernet over regular Cat5/Cat6 cable
- Unrestricted 100Base-T with POE at over 800 metres on Cat6
- Back-to-back pairs of LONGSPAN units can be used to increase the maximum distance to the camera
- Ruggedised for high performance over extreme temperature range
- Smart power and diagnostic display for reliable installation
- Fully automatic, simple to install and maintenance-free
- 600m on Cat6 @100Mbit/s with full 25W POE Plus delivery
- 820m on Cat6 @100Mbit/s with 16W POE delivery

CAT5/6 - 820m MAX
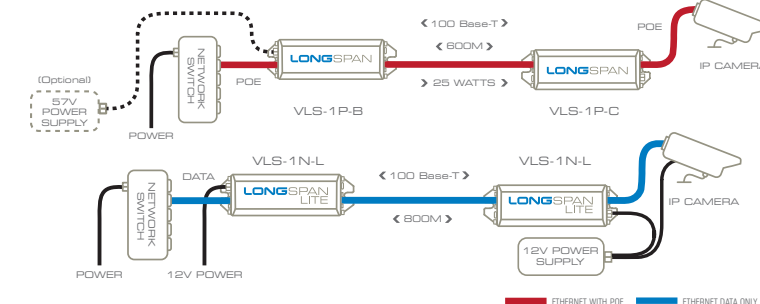
NOTES

Also supports 1-pair and 2-pair cable with extended range, so can replace analogue baluns on UTP cable to allow upgrade to IP.

Automatically detects the number of cable pairs available.

Each link requires two units : For POE delivery a BASE unit and a CAMERA unit are required. For non-POE, two VLS-1NL units can be used, both of which require local power (8 - 57V DC or 20 - 28V AC).

The CAMERA unit is auto-sensing, so will not output POE to the camera if it is not required, or if it is not a POE device.

For non-POE, two VLS-1NL units can be used, both of which require local power (8 - 57V DC or 20 - 28V AC).

ETHERNET OVER COAX | NETWORK EXTENSION | LONG RANGE

POE NETWORK SWITCH

CAM**SW**ITCH 4 PLUS™
CAM**SW**ITCH 8 PLUS™

VCS-4P1
VCS-8P2

L:64mm W:110mm H:22/44mm

FEATURES & BENEFITS

- 802.3af POE / 802.3at POE Plus compliant outputs
- 57V POE for maximum efficiency and range
- POE input allows remote network expansion
- 4+1 and 8+2 channel models
- Rugged enclosure with wall and rack mount options
- Can be powered by a range of AC adapters or POE sources to suit the power budget required.

CAT 5/6 POE OUT

DISTANCE FROM CAMSWITCH PLUS TO NETWORK SWITCH MAY BE UP TO 100M

VCS-4P1
VCS-8P2
CAMSWITCH PLUS

NETWORK SWITCH   OUTSOURCE PLUS
VOR-OSP
POWER POWER
ETHERNET WITH POE   ETHERNET DATA ONLY
UP TO 100M

DISTANCE FROM CAMSWITCH PLUS TO NETWORK SWITCH MAY BE UP TO 100M

VCS-4P1
VCS-8P2
CAMSWITCH PLUS

NETWORK SWITCH
POWER   ETHERNET WITH POE   ETHERNET DATA ONLY
57V POWER SUPPLY   UP TO 100M

NOTES

Veracity's 57V DC power supply can be used to deliver maximum power, efficiency, reliability and a range of power budgets to suit each installation.

A total POE power budget of 40W is delivered using VPSU-57V-800, or 78W using VPSU-57V-1500.

In POE powered operation, to ensure maximum POE power output budget, use OUTSOURCE Plus - Veracity's POE injector (VOR-ORP) which delivers a total power budget of 25W.

Non POE devices can also be connected.

Four CAMSWITCH 8 Plus units fit in Veracity's 1U rack mounting system.

LOW VOLTAGE 802.3AT POE SWITCH

CAM**SW**ITCH 4 MOBILE™
CAM**SW**ITCH 8 MOBILE™

VCS-4P1-MOB
VCS-8P2-MOB

L:100mm W:110mm H:22/44mm

FEATURES & BENEFITS

- 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
- Integrates a 5 or 10 port 10/100 Ethernet switch with capability to convert a 8.5 to 40 volt DC supply into an 80W IEEE 802.3af/at compliant power source.

CAT 5/6 POE OUT FROM 12/24V

VCS-4P1-MOB
VCS-8P2-MOB
CAMSWITCH MOBILE

NETWORK SWITCH   ALL CABLES UP TO 100M CAT 5e OR BETTER
POWER
ETHERNET WITH POE   ETHERNET DATA ONLY
12/24V DC   UP TO 100M
UP TO 4 OR 8 POE OR NON-POE DEVICES
NVR

NOTES

CAMSWITCH 4 Mobile features 4 x 802.3at POE ports, 1 non-POE port, and a versatile DC power input.

CAMSWITCH 8 Mobile features 8 x 802.3at POE ports, 2 non-POE ports, and a versatile DC power input.

Can deliver up to 80 watts of total camera power at its rated ambient temperature of 50° C

POE POWERED NTP TIME SERVER

TIME**N**ET™

VTN-TN

L:92mm W:67mm H:33mm

FEATURES & BENEFITS

- Master NTP time server with GPS clock reference
- Universal standard - Network Time Protocol (NTP) compatible
- Designed to synchronise computers, servers & embedded systems
- Ideal for digital recording and access control applications
- Essential for closed or secure networks - no internet required
- Universal window-mounted or externally-mounted antenna
- Powered by POE or optional 12V DC input

STRATUM 1 NTP

SATELLITE
ANTENNA
VTN-TN
TIMENET
NETWORK DATA WITH POE
POWER
IP CAMERA
POE NETWORK SWITCH
ACCESS

NOTES

It is essential that all security servers (DVRs, NVRs and access control) are accurately time-stamped for evidential purposes.

Many security installations are on closed networks and thus require a network time clock to ensure accurate server synchronisation to UTC (Universal Co-ordinated Time).

TIMENET is a simple, compact, low-cost & highly reliable NTP Master Clock.

Note that the local time-zone is set by the application device (e.g DVR, PC or server), not by the NTP Master Clock.

POE INJECTORS

OUTSOURCE™
OUTSOURCE PLUS™

VOR-OS
VOR-OSP

L:152mm W:65mm H:36mm

FEATURES & BENEFITS

- Enhanced POE injector for maximum power and reach
- Supports max power/range used with OUTREACH, CAMSWITCH Plus
- IEEE 802.3af (POE) and 802.3at (POE Plus) compliant
- Wall mountable

CAT 5/6 - 20W AND 30W POE SOURCE

NETWORK DATA ONLY
NETWORK SWITCH   OUTSOURCE PLUS
VOR-OSP
POWER POWER   NETWORK DATA WITH POE
IP CAMERA

NOTES

OUTSOURCE is an IEEE 802.3af compliant POE injector, and OUTSOURCE Plus also supports 802.3at (POE Plus)

90-264V AC input voltage with standard IEC 3-pin connector

Use to add POE to any Ethernet connection; also supports Gigabit Ethernet and Cisco POE

CAMERA INSTALLATION TOOL

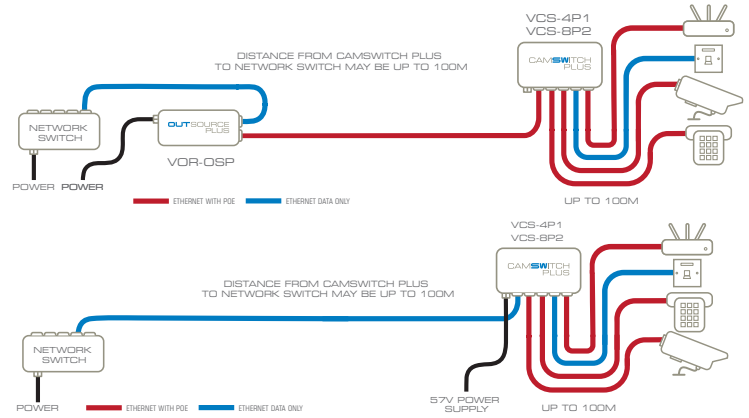### PINP**O**INT™

VAD-PP

L:65mm W:32mm H:20mm

FEATURES & BENEFITS

- Essential tool for IP camera installers
- Local viewing of IP cameras on laptop/netbook
- Allows quick and easy adjustment of focus and viewing angle
- Uses POE from network, allows pass-through to camera
- Low cost re-useable device
- Installs in seconds, removes in seconds

CAT 5/6 POE PASS-THROUGH

POE
POE NETWORK SWITCH   VAD-PP   DATA WITH POE   IP CAMERA
PINPOINT
POWER   LAPTOP
‹ DATA ›

NOTES

Allows a laptop or netbook to be used as a local monitor for image adjustment and configuration settings through a browser.

Results in perfect camera viewing direction and sharp, accurate focus.

The device is especially useful for mega-pixel camera lenses with very fine focus adjustment. Every IP camera installation engineer should carry a PINPOINT in their pocket.

PORTABLE POE INJECTOR

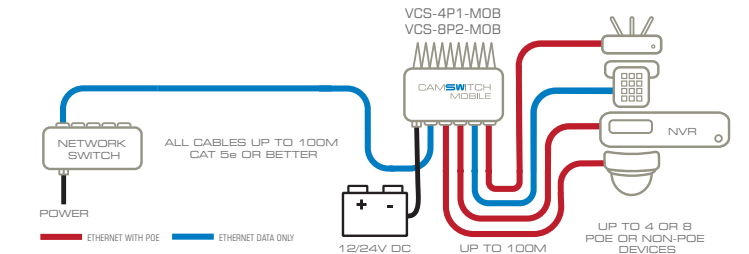### P**O**INTSOURCE™

VAD-PS

L:190mm W:90mm H:120mm

FEATURES & BENEFITS

- Rechargeable POE battery-pack
- Portable POE source for field use
- Locally view IP camera on your laptop
- Allows demonstration and installation
- Can provide 6 to 8 hours operation
- Essential tool for installation, testing, surveys and inspections
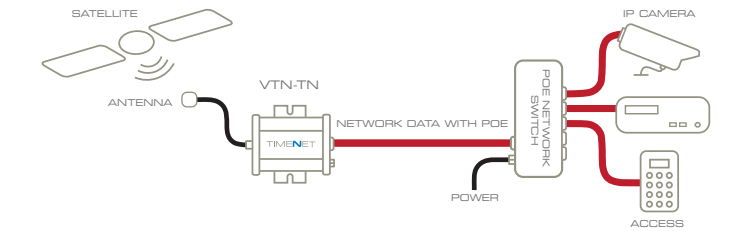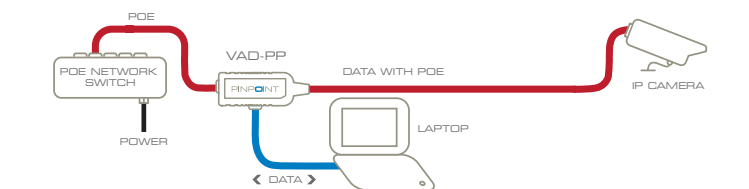
CAT 5/6 BATTERY POE SOURCE

‹ DATA ›
DATA WITH POE   IP CAMERA
POINTSOURCE
LAPTOP   VAD-PS

NOTES

Provides similar functionality to PINPOINT above, but with a built-in POE power source to allow installation and setup of IP cameras before POE power is available through the network.

Can power devices up to 13 watts (POE Class 3 or Class 0) and is re-chargeable. Can power a 4 watt camera for 8 hours.

Every IP camera installation engineer should carry a POINTSOURCE for installation, testing and on-site surveys.

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