SURGE PROTECTION

Surge Protection

All Veracity products have been independently tested to verify their resilience to the stringent immunity levels of international standards. Users should note that no electronic equipment can be guaranteed to be completely protected at levels beyond the defined standard; therefore product warranty cannot include damage to products which has been caused by surges exceeding those of the standards specified, for example lightning strike activity.

It is the user's responsibility to implement relevant surge protection measures, as appropriate to the installation. This may include the fitting of additional surge protection devices where required.

Veracity UK Ltd
Prestwick International Aerospace Park, 4 Dow Road,
Prestwick, KA9 2TU. UK

Veracity's Authorised Representative in the EU (as required by EU law for CE marked goods) is: Comply Express Unipessoal Limitada, StartUp Madeira, EV141, Campus da Penteada, 9020 105 Funchal, Portugal.

FCC CERTIFICATION

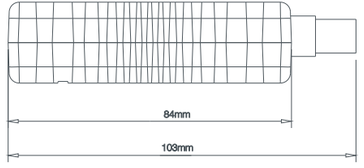
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

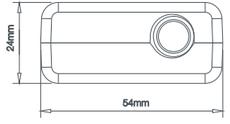
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

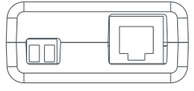
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

RoHS UK CA CE FC

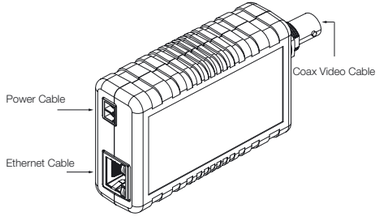
PRODUCT DIMENSIONS







HIGHWIRE CONNECTIONS



- HIGHWIRE devices are used in pairs, with one at each end of the coax cable.
- Once powered, the devices provide a full-duplex 100Mbps data link across the coax cable, delivering standard 100Base-TX Ethernet at each end.

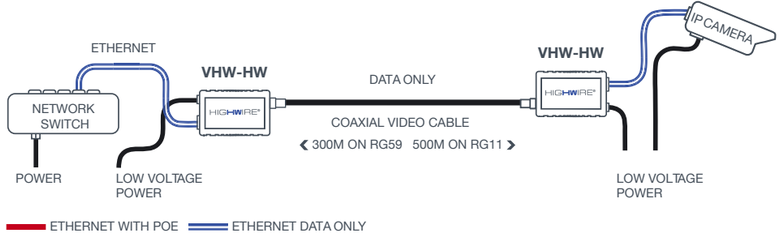
VHW-HW

QUICKSTART GUIDE

ETHERNET OVER COAX ADAPTOR
HIGHWIRE®

veracity

HIGHWIRE APPLICATION DIAGRAM



- HIGHWIRE devices are used to convert conventional Ethernet to a signal that can be carried by 75ohm coaxial cables such as RG59, RG6 and RG11.

- HIGHWIRE makes it possible to switch installed analogue cameras for high-quality digital IP cameras without the expense of replacing existing cabling.

MOUNTING HIGHWIRE

The HIGHWIRE device should only be installed indoors or in an appropriately rated enclosure.

- The device should be securely mounted and should not be supported by the attached cables. Veracity's Wall Mount Bracket, product code VHW-WMB, can be used for bolting the device to a wall or structure.

- Veracity's Rackmount Bracket, product code VHW-1U, allows installation of up to eight HIGHWIRE devices in 1U of a 19-inch rack.

- Veracity's DIN Rail, product code VHW-DMB, is used to mount the device onto a DIN rail.

POWER CONNECTION

HIGHWIRE should only be used with a Class II Isolated Power Supply.

- The device can be powered from either a 12V DC or 24V AC power supply (PSU), and adjusts to its type and voltage automatically.

- If the PSU is shared with other equipment such as a camera, ensure that the total load current will not exceed the PSU's rated output.

- The power supply voltage should be within the range specified. If in any doubt, measure the voltage at the PSU's connector before and then after connecting the HIGHWIRE or other equipment.

- If an existing power supply is not available, up to two HIGHWIRE devices can be powered by Veracity's power supply VPSU-12V-U.

- The green LED will blink every 1 - 2 seconds to indicate the presence of power.

- The PSU cables should be bared, tinned and securely connected to the HIGHWIRE power plug before switching on the PSU. Only one wire should be connected to each of the power plug's screw terminals, with polarity as indicated on the device's top panel.

COAXIAL CABLE CONNECTION

- Connect the BNC socket on the device to the coaxial cable. If another HIGHWIRE device is connected at the far end and powered up, then the green LED will light steadily to indicate a good connection.

- In some installations, cable condition can force the devices to reduce their connection speed. This is indicated by the green LED flashing (approx. half-on, half-off).

- Only two devices should be connected, one at each end of the cable. HIGHWIRE is not compatible with other equipment such as analogue video amplifiers.

ETHERNET CABLE CONNECTION

- Connect the RJ45 Ethernet jack on the device to the camera or other network equipment using a standard Ethernet cable. Both patch and crossover type Cat5e or Cat6 cables are supported.

- The amber LED will light to indicate a network connection, and will blink on and off during network activity.

POWER OVER ETHERNET

- A standard HIGHWIRE may be used at the base end, with a HIGHWIRE Powerstar Camera device and a local 57V DC PSU at the camera/device end to provide POE via the HIGHWIRE Powerstar network port to the powered camera/device.