COMPACT 802.3AT POE 10/100 SWITCH

CAM**SW**ITCH™ PLUS

CAMSWITCH Plus is a robust network switch which can be bolted to the wall or rack mounted

POE PLUS COMPLIANT

Compact, rugged and versatile POE switch for reliable IP camera installations

CAMSWITCH Plus delivers the power and practicality you need to effectively support Power over Ethernet equipment.

| 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

veracity

A rugged IP network switch for POE cameras - fast to install with minimum disruption in colleges, malls and airports

Up to full 802.3at Power over Ethernet for IP cameras

CAMSWITCH Plus 10/100 Ethernet switches feature full IEEE 802.3af/at POE compliance to support IP cameras and other POE-powered devices, and can be powered using a local power supply or a unique POE input.

Power exactly where you need it

CAMSWITCH 4 Plus is a 5-port 10/100 switch including four POE outputs, and one port for non-POE downlink or optional POE input.

CAMSWITCH 8 Plus is a 10-port 10/100 switch featuring eight POE outputs, and two further ports, one of which has an optional POE input.

CAMSWITCH switches are compact and rugged, and require no user configuration. Ethernet speed, duplex and crossover are detected or negotiated automatically, and IEEE 802.3af/at POE is delivered automatically to compliant devices. For other equipment, all ports can be used for regular non-POE Ethernet connections.

Wall-mount clips are included and CAMSWITCH 8 Plus is also compatible with Veracity's configurable rack mounting tray assembly system.

Versatile power input for maximum power budget

CAMSWITCH Plus may be used with Veracity's 57V DC power supply models, providing a range of power budgets to suit each installation.

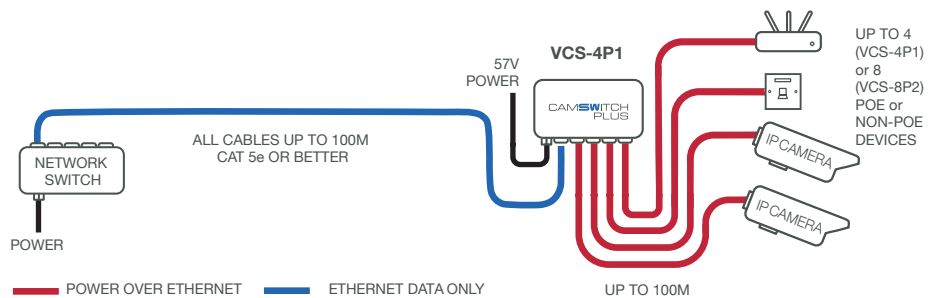Veracity's class-leading power system delivers the maximum power, efficiency, and reliability available within the POE standard. It also supports maximum range extension: using CAMSWITCH Plus is equivalent to adding an OUTSOURCE Plus injector or separate 57V power supply when delivering POE to OUTREACH Max, LONGSPAN or HIGHWIRE Powerstar.

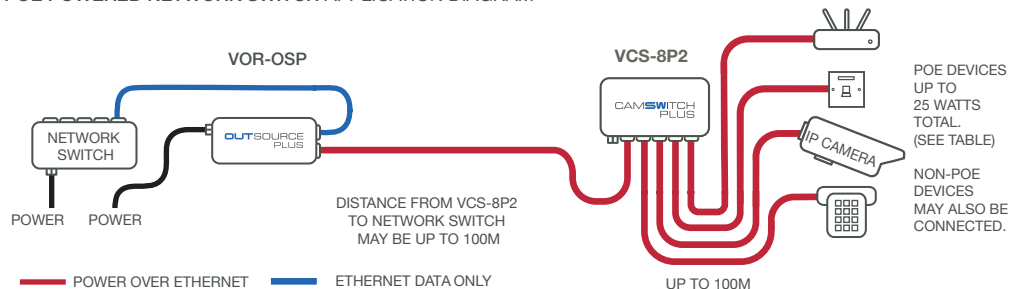## Use POE power for extending range or adding devices

CAMSWITCH Plus can also be powered by POE, supporting remote positioning, range extension, or adding devices to existing cables. Veracity's OUTSOURCE Plus injector is recommended for maximum POE budget and range, however for applications with low POE requirements or data-only connections, a regular 802.3af switch may be used.

CAMSWITCH Plus Application Diagrams

VERSATILE POWER INPUT - NETWORK SWITCH APPLICATION DIAGRAM

57V POWER

VCS-4P1

CAMSWITCH PLUS

NETWORK SWITCH

POWER

ALL CABLES UP TO 100M CAT 5e OR BETTER

UP TO 4 (VCS-4P1) or 8 (VCS-8P2) POE or NON-POE DEVICES

IP CAMERA

IP CAMERA

POWER OVER ETHERNET — ETHERNET DATA ONLY

UP TO 100M

POE POWERED NETWORK SWITCH APPLICATION DIAGRAM

VOR-OSP

OUTSOURCE PLUS

NETWORK SWITCH

POWER   POWER

VCS-8P2

CAMSWITCH PLUS

DISTANCE FROM VCS-8P2 TO NETWORK SWITCH MAY BE UP TO 100M

POE DEVICES UP TO 25 WATTS TOTAL. (SEE TABLE)

NON-POE DEVICES MAY ALSO BE CONNECTED.

IP CAMERA

POWER OVER ETHERNET — ETHERNET DATA ONLY

UP TO 100M

veracity

Selecting the right power source for all your IP camera needs

CAMSWITCH Plus can be powered by a range of AC adapters or POE sources to suit the budget required:

How to work out the total power required for a camera installation:

1. Look up the power in watts from each camera's datasheet. Allow for any devices which may be added in the future.

2. Add these figures together to find the total budget required. (Cable losses are already accounted for and do not need to be included)

3. Select a power source which can support the budget you require or greater.

All ports can always be used for network connections. POE is only enabled to compliant devices; non-POE Ethernet equipment can simply be connected as normal.

POE power classes are not used by CAMSWITCH Plus, as they are often unreliable. However in the absence of other information, they can be used to estimate a camera's power requirement as follows:

| a POE class 1 camera will draw 3.8 watts or less

| a POE class 2 camera will draw 6.5 watts or less

| a POE class 3 or 0 camera (full 802.3af) will draw 13 watts or less

| a POE class 4 camera (full 802.3at) will draw 25.5 watts or less

Wall mounting

Neat snap-on mounting brackets permit secure wall mounting where this is required.

Rack mounting

CAMSWITCH 8 Plus is designed to fit in Veracity's configurable rack mounting system. A tray assembly allows up to 4 units to be mounted in only 1U of space.

Veracity's rackmount power system delivers up to 400 watts of power with optional redundancy.

Power Budget
Typical IP Cameras use

POWER SOURCE	BUDGET	SUPPORTS IP CAMERAS (example)
VPSU-57V-800 Power Supply	40 watts	
VPSU-57V-1500 Power Supply	78 watts	
Veracity Rack Power System	400 watts	
802.3af POE Switch	10 watts	
VOR-OSP OUTSOURCE Plus POE Injector	25 watts	

Typical static IP camera (up to 8 watts)   PTZ dome using POE Plus (up to 25.5 watts)

TECHNICAL **SPECIFICATION**

CAMS**WITCH**™
4 PLUS / 8 PLUS

POWER INPUT

Power source	DC power supply or Power over Ethernet
DC connector	Detachable screw terminal
	Rear connector for rack-mount or 1500mA power supply (VCS-8P2)
	Adaptor cable included for 1500mA power supply (VCS-4P1)
DC voltage	44-57V, Class II isolated (Veracity power supply recommended)
POE standard	IEEE 8023.af or Veracity OUTSOURCE Plus (recommended for max budget)
Device power	3 watts typical (both models)

POE OUTPUTS

POE standard	IEEE 802.3af / IEEE 802.3at compliant
	Enhanced POE supports maximum range when used with
	OUTREACH Max, LONGSPAN or HIGHWIRE PowerStar
	(equivalent to using OUTSOURCE Plus or 57V power supply)
	Power budget limited by power source specified; see table on prev. page

ETHERNET INTERFACE

Connector	RJ45, 5-port unmanaged 10/100 switch
Rates	10BASE-T or 100BASE-TX and duplex, auto-configuring for speed
Cable	Straight through or crossover Cat 5, Cat 5e or Cat 6 patch
	VCS-8P2 supports VLAN trunking

LED INDICATORS

Green - POE Ports	Constant	POE enabled
	Off	No POE requested
Green - Non POE Ports	Constant	Power OK
	Off	No power
Yellow	Constant	Ethernet OK
	Blink	Network activity

PHYSICAL/ENVIRONMENTAL

Dimensions	L 110mm / 131mm with side clips W 64mm / 76-80mm inc. connectors
	H 22mm (VCS-4P1) / 40mm (VCS-8P2)
Mounting (brackets inc.)	5mm mounting holes on 122mm centres
Weight	135g [4.8oz] (VCS-4P1) / 225g [7.9oz] (VCS-8P2)
Operating temperature	-10ºC to 50ºC [14ºF to 122ºF]
Relative humidity	Up to 85%, non-condensing
Compliance	CE, FCC, RoHS

PRODUCT CODES

VCS-4P1	CAMSWITCH 4 Plus	4+1 port 802.3at POE network switch
VCS-8P2	CAMSWITCH 8 Plus	8+2 port 802.3at POE network switch
VPSU-57V-800	Optional power supply for CAMSWITCH Plus	40 watt budget
VPSU-57V-1500	Optional power supply for CAMSWITCH Plus	78 watt budget
VPSU-57V-1U	Rack-mountable 1U multi channel power supply	Up to 400 watt budget
VOR-OSP	OUTSOURCE Plus, enhanced POE injector	25 watt budget

CAMSWITCH Mobile is also available in 4+1 and 8 + 2 models. They are compact, versatile POE switches that provide POE Plus from 12 or 24 volts.

Americas Sales |
Veracity USA Inc.
17000 Preston Road
Suite 120
Dallas
TX 75248
USA
Tel: 1-800-679-1590
Fax: 1-800-679-0714
www.veracityglobal.com
sales@veracityusa.com

EMEA Sales
Veracity UK Ltd
Prestwick International Aerospace Park
4 Dow Road
Prestwick
KA9 2TU
UK
Tel +44 (0) 1292 264967
Fax +44 (0) 845 528 1081
www.veracityglobal.com
sales@veracityuk.com