

OUTREACH Specification - PRELIMINARY

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Extend Ethernet beyond 100m

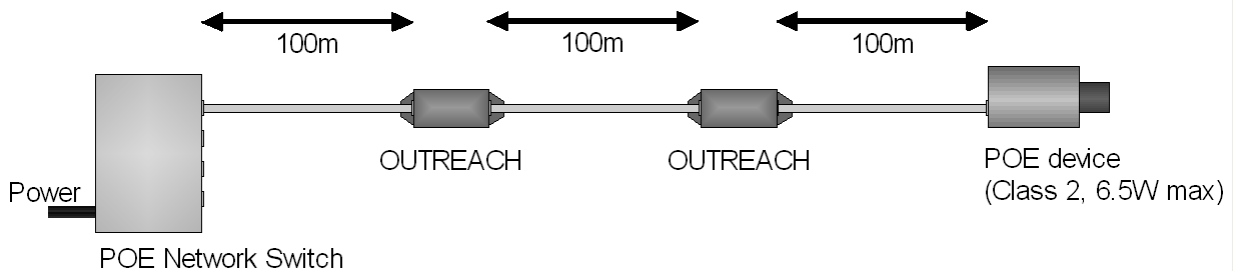
- Connect an OUTREACH and instantly extend the range of your Cat5 cable installation beyond the conventional 100m (328') limit.
- OUTREACH is entirely self-configuring, transparent to the network, and does not restrict data bandwidth.

Extend Power Over Ethernet (POE) beyond 100m

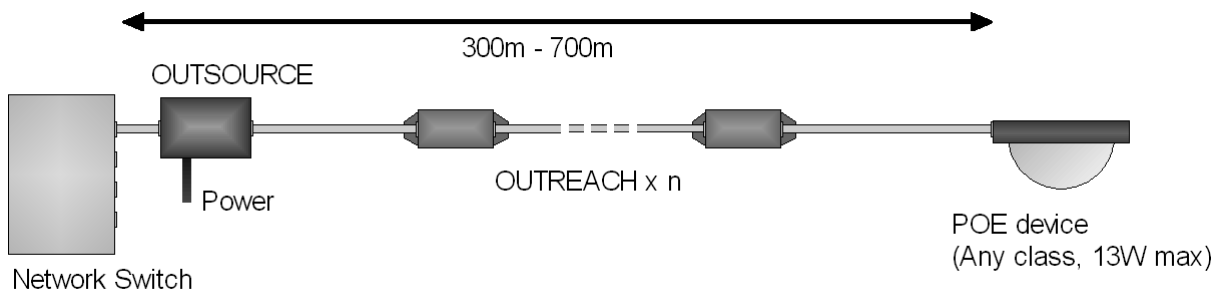
- OUTREACH draws its own power directly from the network cable and intelligently forwards remaining power to other POE-compatible equipment.
- Our patent-pending technology allows OUTREACH to automatically manage power distribution across the link, only enabling POE to connected equipment if it is guaranteed to meet IEEE specifications.
- Auto-detection of other OUTREACH devices allows series connection for even greater distances.

Example applications:

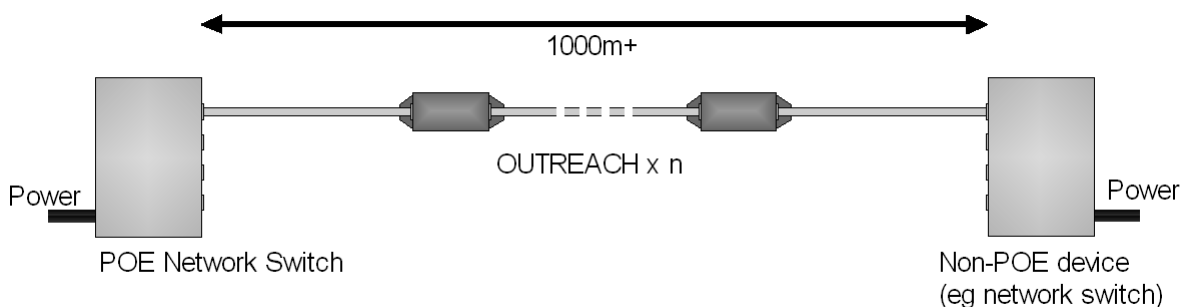
1. Extending the range of network camera installations



2. Using the OUTSOURCE power injector for higher power and greater range



3. Maximum Ethernet range extension for non-POE devices



Ethernet specification

100BASE-T Full Duplex only (auto-negotiation supported)
No MAC address or IP address used
No network setup required, transparent to other network devices
Auto-configuration for patch or crossover cables

POE specification

IEEE 802.3af Class 0 device
POE out to IEEE 802.3af Class 1 or 2 devices (6.5W max), or all class devices (13W max) using an OUTSOURCE power injector.

Range

Typical POE network switch:

Non-POE :	1000m
Class 1 (<4W) :	400m
Class 2 (<6.5W) :	300m
Class 3 (<13W) :	n/a

OUTSOURCE power injector:

Non-POE :	1300m
Class 1 (<4W) :	700m
Class 2 (<6.5W) :	400m
Class 3 (<13W) :	300m

Note: These distances are typical results based on conventional 24AWG Cat5, Cat5e or Cat6 cable. Veracity can advise on your application if it is close to the distance shown.

Connections

RJ45 network jack, POE in
RJ45 network jack, POE out

LEDs

Amber (both ports):

On:	100BASE-T link good
Blinking:	Network activity
Off:	No network connection to port

Green (POE in port):

On:	Power good
Blinking:	Approaching IEEE limits for forwarded POE
Off:	No power to OUTREACH unit

Green (POE out port):

On:	POE enabled to connected device
Blinking:	Insufficient power for device or POE fault
Off:	POE not requested by connected device

Dimensions

Length: 70mm (100mm including mounting tabs)
Width: 34mm
Height: 20mm
Weight: 100g