

# Vi0030

## MaxiiCopper™ 2-Wire Passive Adapter

### Features

- Interfaces the Vi24xx and Vi24xxA series to single pair cables
- Enables the Vi24xx and Vi24xxA series to transmit PoE and data over long distance single pair cables
- Passive adapter, does not require power
- MegaPixel Certified (MPC™) high data rate, ideal for requirements of Mega-pixel cameras
- Pass-Through-PoE (PTP™) compatibility with 802.3af Power over Ethernet
- Type tested to RFC-2544 TCP/IP network bandwidth packet transmission standards
- Type tested for -40°C to +75°C temperature range under NEMA-TS2 testing standards
- Compact design
- USA designed and manufactured
- Limited Life Time Warranty



### Applications

- Retrofit analog CCTV installations with one pair UTP
- Extending Networks in industrial environment without using Standard cables
- Expanding CCTV System without adding new wiring

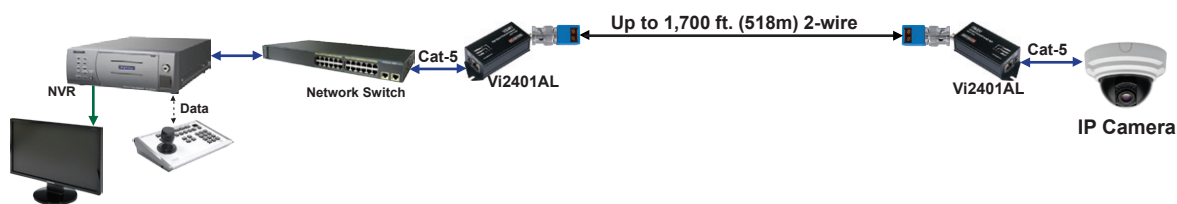


The Vi0030 is a passive adapter that can enable the Vi24xx and Vi24xxA Ethernet extender series to transmit IP video and PoE over a single pair UTP or alarm wires. Depending on the quality of cable, it can transmit 10BaseT Ethernet data up to 1,800 feet (548m). Its compact design enables it to add extra features to the extender without requiring extra space.

The Vi0030 can make it possible to reuse the single-pair UTP wires, found in analog CCTV or alarm and intercomm systems, to transmit data and PoE for retrofit IP camera applications and significantly lower installation costs.

It can pass through PoE and allow a single PoE source, such as a PoE switch or Midspan, to provide power to both transceivers and the camera. This feature eliminates the need for local and remote site power supplies. Type tested under NEMA-TS2 environmental standards for extended temperature operations between -40C° to +75C°, the Vi0030 is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses and casinos projects. Best of all, the Vi0030 is MegaPixel Certified (MPC™) and type tested to network packet performance standards. It is also tested for compatibility with major camera brands to assure an error free and reliable operations.

### Application Diagram



# Technical Specifications

## Electrical

Ethernet Interface	Standard 10BaseT
Coax	75 Ohm
Power Supply	No power required
2-Wire Distance	(See chart below)
Connectors	Wire Interface: 2-pin Terminal Block BNC Interface: Male BNC
RFC	2544 TCP/IP Packet Transmission
PoE Compatibility	IEEE 802.3af, IEEE 802.3at
RFC	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet

## Regulatory

Safety	CE
Environmental	RoHS

## Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +75°C per NEMA-TS2 testing Storage: -40°C to +85°C

## Mechanical

Dimensions	0.48x0.55x1.26 in., 1.2x1.4x3.2cm (HxWxL)
Weight	0.026 lb, 13g
Material	ABS plastic, UL rating of 94V-0

## Ordering Information

PART No.	Description
Vi0030	Single-Pair Cable A dapter

## System Configuration

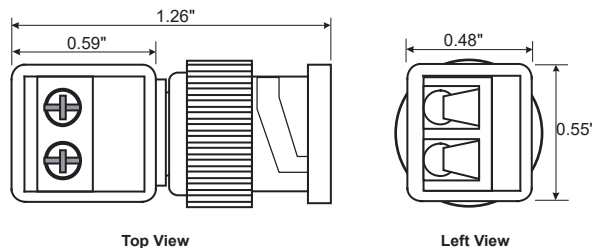


## 10BaseT Ethernet Data and PoE Distance Chart\*\*

PoE Source	Available Power at Camera	Wire Type		
		24/2 AWG	22/2 AWG	18/2 AWG
Data only (No PoE)	N/A	1,800 ft. (548m)	1,800 ft. (548m)	1,800 ft. (548m)
15.4W or 30W	Class 2 (6.49W)	900 ft. (274m)	1,150 ft. (350m)	1,700 ft. (518m)
30W	Class 3 (12.95W)	650 ft. (198m)	700 ft. (213m)	1,700 ft. (518m)

\* Specifications subject to change without notice.

\*\* Distance figures are obtained using in-house testing mirroring installations. Factors such as cabling, connections, use of power and environmental conditions may affect actual distances and should be taken into consideration. Specifications reflect operating using Pass-Through-PoE (PTP™) providing power for both transceivers and camera from a single source. Distances may increase if transceivers are locally powered.



Note:  
Single pair wire application designs need to be confirmed by Vigitron tech support.



TEL (+1) 858-484-5209 • FAX (+1) 858-484-1205  
7810 Trade Street, Suite 100, San Diego, CA 92121, USA • support@vigitron.com • www.vigitron.com