IP Video
HD Video
Analog Video
Transmission Solutions

HD Power Injectors & Splitters

PoE Switches

60W PoE Midspans

Ethernet & PoE Extenders

Analog Video over UTP

HD Video & PoC

Coax IP Video Power Supplies

2-Wire IP Video   **4K Ultra HD Complient**

Fiber Optics SFPs

Fiber Optics Media Converters

PoE Repeaters Power Supplies

Surge Protectors   PoE Splitters

HD-TVI over UTP

HD-CVI over UTP

HD DAs

HD Power Injectors & Splitters

60W PoE Midspans

2-Wire IP Video

4K Ultra HD Complient

Fiber Optics Media Converters

PoE Repeaters

VIGITRON

World-Wide Access Partner

PCSC
PCSCsecurity.com

Introduction

Vigitron has been a leader in design and manufacturing of infrastructure transmission equipment since 1997. Our product lines have grown as the security industry has evolved to include Analog, IP, and HD CCTV.

Vigitron is endorsed by the world's leading CCTV solution providers based on our dedication to quality, certified product performance testing, inter-operational testing with the world leading camera brands and offering the industry's longest warranty.

Performance, innovation, and reliability are the features you can rely on from the security leader in infrastructure solutions.

Vigitron Advantages

Symmetric Bandwidth (SBW™)
Maintains maximum bandwidth throughout specified distances for both upload and downloads.

Virtual Zero Packet Loss (VZPL™)
In network communication, information is transferred in Packets. Loss of Packets equals loss of information. Tested to RFC 2544 TCP/IP for packets sizes up to 9,000 bytes Jumbo Frames.

Pass-Through-PoE (PTP™)
Passes through the PoE power without interfering in the PSE-PD communication.

Extended Pass-Through-PoE (EPTP™)
The ability to pass 802.3af/at and PoE ++ up to 74W transmitting power at extreme distances with minimal power losses.

Mega Pixel Certified (MPC™)
Testing is done to manufacturers' high-end Megapixel cameras. Vigitron products have also been tested by several IP camera manufacturers, resulting in their strong endorsements.

RFC Certified
Vigitron products are tested under RFC 2544 specifications for Packet loss, Bandwidth and Latency and the highest Jumbo frame size of 9,000 bytes, which provides the ability to transmit the largest megapixel size cameras with virtually no loss.

Hardened (HRD™)
Vigitron products are type tested for operation from -40°C to + 75°C under tough NEMA-TS2 transportation testing standards.

Low Power Consumption (LPC™)
The industry's lowest power consumption, reserving needed power for PoE devices, and saving installation and operating costs.

Support Jumbo Frames (JFC ™)
Jumbo Frame compatibility assures reliable full bandwidth transmission of the highest megapixel cameras with maintaining image quality at high frame rates. Vigitron products are tested up to the full jumbo frame rate of 9000 bytes.

60W PoE
Vigitron PoE++ products transmit up to 74W power at extended distances to cameras with PTZ, IR Illuminators, heaters and blowers, eliminating the need for any local power supplies and power outlets.

Our most important products are free!

Vigitron's Infrastructure Design Services and, Vigitron's performance specification are supported by key environmental, bandwidth and PoE certification testing. In addition, Vigitron works with virtually all major IP camera manufacturers conducting intraoperative testing. This testing forms the bases for our Design Center Services providing infrastructure designs for dealer specific applications. Staffed by trained engineers who will evaluate specific requirements and existing equipment to provide the most cost effective reliable infrastructure.

Vigitron's Design Center Services is provided free and without obligation, and can easily be accessed on our website or emailing support@vigitron.com

Vigitron's Lifetime Warranty

Vigitron, with about 2 decades of design and manufacturing experience, provides the most reliable products supported by the industry's longest warranty. Our warranty is the production lifetime plus three years to assure you of continued support, even after a product's end of life. Design Services and Extended Warranty are two of Vigitron's most important and free products.

Vigitron vs. Competition

Feature	Vigitron	Competitors
Complete IP Infrastructure Provider	✔	X
Free Design Services	✔	X
Performance Backed by Certified Testing	✔	X
Highest Bandwidth	✔	X
Highest PoE Power Capacity	✔	X
Real World Product Testing	✔	X
IP Camera Interoperability Testing	✔	X
Products Made in USA	✔	X
Industry's Longest Warranty	✔	X

IP Video

MaxiiNet™ High Power Managed PoE Switches

Model	Function
Vi3010	10-Port High Performance PoE Switch w/ 180W PoE
Vi3026	26-Port High Performance PoE Switch w/ 370W PoE
Vi3326	26-Port High Performance Switch

- Layer 2+ High Power Managed 26-port Gb PoE Switch (Vi3026)
- Full 802.3af (15.4W) and 802.3 at (30W)
- Supports Jumbo Frames up to 9600 bytes compatible with highest Megapixel cameras
- Automatically reconnects after data or PoE dropped connections
- Network MAC address detection for all connected devices for easy device programming
- Automatic one-step port and VLAN configuration for IP cameras, VoIP telephones and wireless devices
- Virtual stacking allows single IP address access to all switches located anywhere on the network
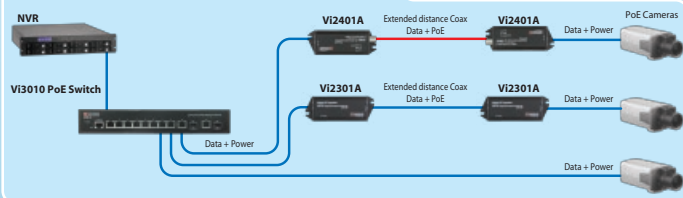
Application Diagrams


MaxiiNet™ Managed High Power PoE Switch
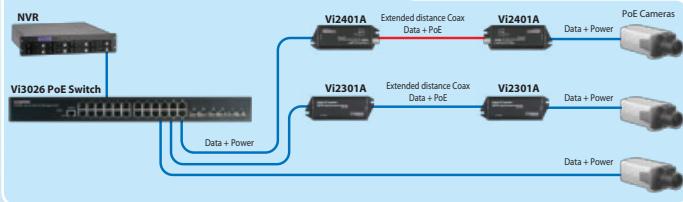
The Vi3026 is the ideal solution for midsize projects. It provides all essential and extra features needed for a reliable and successful network implementation.

MaxiiNet™ Managed High Power PoE Switch

The Vi3010 is a high power PoE switch that provides 10 Gb ports and 2 SFP sockets for fiber optics connections. It is ideal for small to mediom IP CCTV or IT network applications.
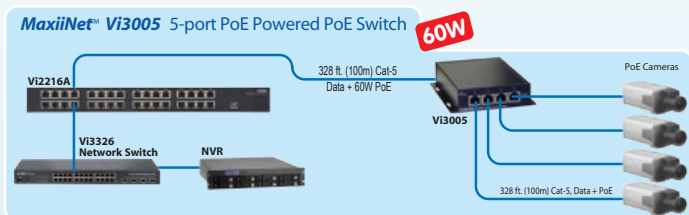

MaxiiNet™ Virtual Stacking
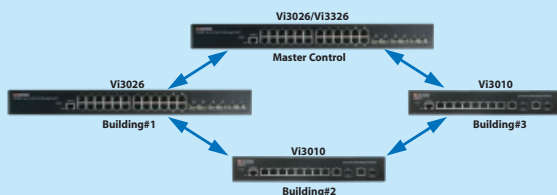
The Vi3026's Virtual Auto Stacking allows use of a single IP address to control and monitor several switches on the same network without location restriction. It also eliminates the need for special stacking cables.
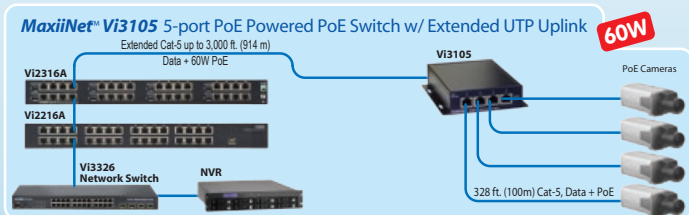
IP Video

MaxiiNet™ Hardened PoE Powered PoE Switch

Model	Function
Vi3005	5-Port 60W PoE Powered PoE Switch w/ UTP and Fiber Uplink
Vi3105	5-Port 60W PoE Powered PoE Switch W/ Extended UTP Uplink
Vi3205	5-Port PoE Powered PoE Switch W/ Extended Coax Uplink

Application Diagrams

MaxiiNet™ Vi3005 5-port PoE Powered PoE Switch

Vi2216A
Vi3326 Network Switch
NVR
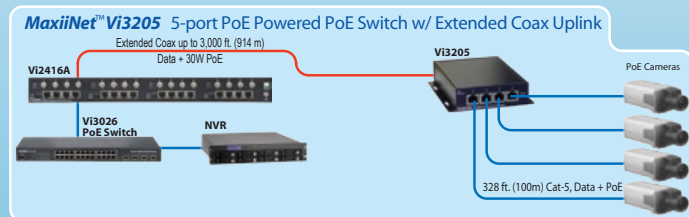328 ft. (100m) Cat-5 Data + 60W PoE
Vi3005
PoE Cameras
328 ft. (100m) Cat-5, Data + PoE

The Vi3005 is a Layer 2 PoE switch that can be powered by PoE or local power supply. It provides up to 37W per port using a 120W local power supply. When a 60W PoE source is available, the switch and all 4 cameras can be powered by PoE without the need for local power supplies.

MaxiiNet™ Vi3105 5-port PoE Powered PoE Switch w/ Extended UTP Uplink

Extended Cat-5 up to 3,000 ft. (914 m)
Data + 60W PoE
Vi2316A
Vi2216A
Vi3326 Network Switch
NVR
Vi3105
PoE Cameras
328 ft. (100m) Cat-5, Data + PoE

The Vi3105 is a layer 2 PoE switch that can be powered by PoE or local power supply and provide up to 37W per port PoE depending on the power source. It can use its extended UTP uplink to receive power and data up to 3,000 ft. (914m) without the need for local power supplies. When a local power supply is present, the Vi3105 can use Vi0015 to combine 2 ports to provide 74W power.
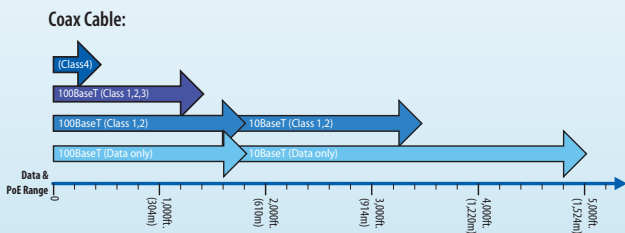
MaxiiNet™ Vi3205 5-port PoE Powered PoE Switch w/ Extended Coax Uplink

Extended Coax up to 3,000 ft. (914 m)
Data + 30W PoE
Vi2416A
Vi3026 PoE Switch
NVR
Vi3205
PoE Cameras
328 ft. (100m) Cat-5, Data + PoE

The Vi3205 is a layer 2 PoE switch that can be powered by PoE or local power supply and provide up to 37W per port PoE depending on the power source. It can use its extended Coax uplink to receive power and data up to 3,000 ft. (914m) and data only at 5,000 feet (1,524m). When using local power, Vi3205 can provide up to 37W per port.

MaxiiCopper ™ Ethernet Extenders over Coax

Model	Function
Vi2400A	Mini Ethernet Extender w/ Pass-Through-PoE
Vi2401A	Single port 10/100 Ethernet Extender w/ Pass-Through-PoE
Vi2404A	4-port 10/100 Ethernet Extender w/ Pass-Through-PoE
Vi2408A	8-port 10/100 Ethernet Extender w/ Pass-Through-PoE
Vi2416A	16-port 10/100 Ethernet Extender w/ Pass-Through-PoE

• Extends 10BaseT up to 5,000 ft. (1,524m)
• Extends 100BaseT up to 1,800 ft. (548m)
• Provides Pass-Through-PoE up to 30W
• Provides automatic Bandwidth detection

Data & PoE Range*

Coax Cable:

(Class4)

100BaseT (Class 1,2,3)

100BaseT (Class 1,2) — 10BaseT (Class 1,2)

100BaseT (Data only) — 10BaseT (Data only)

Data & PoE Range
0 — 1,000ft. (304m) — 2,000ft. (610m) — 3,000ft. (914m) — 4,000ft. (1,220m) — 5,000ft. (1,524m)

Application Diagrams

MaxiiNet™ Single port MaxiiCopperTM over Coax

Vi3026 PoE Switch

NVR

Vi2401A

Extended distance Coax Data + PoE

Vi2401A

Data + Power

PoE Cameras

Data + Power

The Vi2401A can transmit IP data up to 37W PoE over existing coax at distances up to 1,800 feet (545m) providing a quick and cost effective method of converting analog CCTV to IP systems.

MaxiiNet™ Managed High Power PoE Switch

Vi3026 PoE Switch

NVR

Vi2401A

Extended distance Coax Data + PoE

Vi2400A

Junction Box

Data + Power

PoE Cameras

Data + Power

The Vi2400A Mini provides PoE and IP video transmission over coax without the need for local power supplies. It can fit in common 4-square and J-box enclosures, making it the perfect solution for applications requiring security and environmental protection.

IP Video

Multi Port *MaxiiCopper*™ over Extended Coax
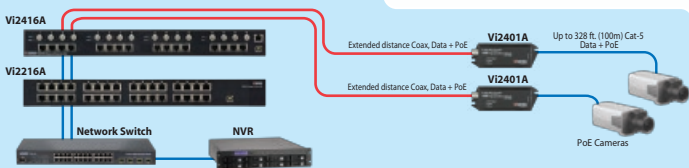
The Vi2401A is the perfect solution for analog systems transitioning to IP. It reduces the installation cost by maintaining existing coax wiring. Pass-Through-PoE eliminates the need for local power supplies for the extender and IP camera at the remote site.
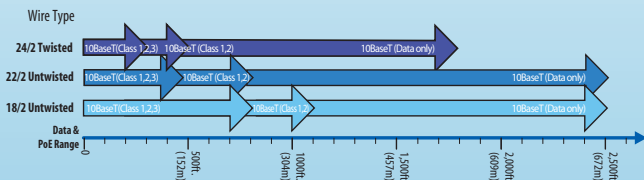
Multi Port *MaxiiCopper*™ over Extended Coax
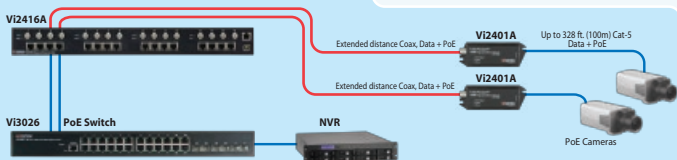
The Vi24xxA series Pass-Through-PoE eliminate the need for local power supplies for the extender and IP camera at the remote site.

MaxiiCopper™ Ethernet Extenders over 2-Wire

Model	Function
Vi0030	Single Pair adapter for Vi2400 Series

The Vi0030 along with Vi2400 series can transmit data and PoE over long distances of single pair wires such as 18/2, 22/2, and 24/2 twisted or untwisted.
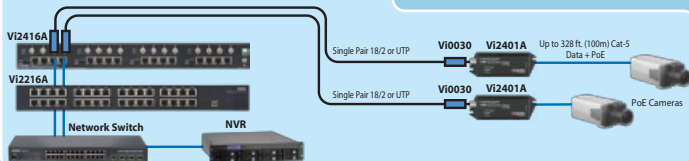
Data & PoE Range*

Single Pair Wires using Vi2400 series and Vi0030 (10BaseT only):

Application Diagrams

MaxiiCopper™ over Extended Single Pair Wires

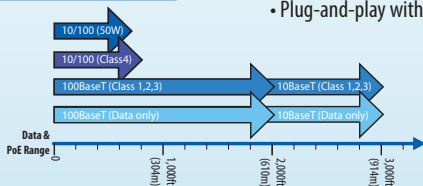The Vi24xx series are capable of running data and PoE power over single pair twisted or untwisted pair wires when used with the Vi0030 adapter.

7

MaxiiCopper™ **Ethernet Extenders over UTP**

Model	Function
60W Vi2300A	Mini Ethernet Extender w/ Pass-Through-PoE
60W Vi2300W	Weatherproof (**IP67**) Ethernet Extender w/ Pass-Through-PoE
60W Vi2301A	Single port 10/100 Ethernet Extender w Pass-Through-PoE
60W Vi2304A	4-port 10/100 Ethernet Extender w/Pass-Through-PoE
60W Vi2308A	8-port 10/100 Ethernet Extender w/Pass-Through-PoE
60W Vi2316A	16-port 10/100 Ethernet Extender w/ Hardened Pass-Through-PoE

- Extends 10BaseT up to 3,000 ft. (914m)
- Extends 100BaseT up to 2,000 ft. (609m)
- Tested and and certified with major 60W cameras
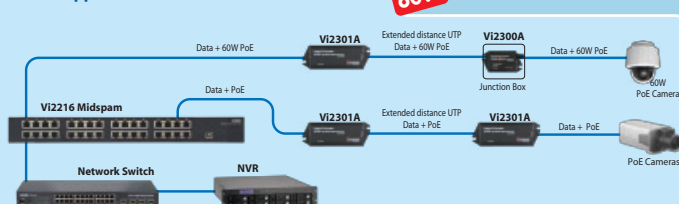- Plug-and-play with no set up required

Data & PoE Range*

10/100 (50W)
10/100 (Class4)
100BaseT (Class 1,2,3)   10BaseT (Class 1,2,3)
100BaseT (Data only)   10BaseT (Data only)

Data & PoE Range
0 — 1,000ft. (304m) — 2,000ft. (610m) — 3,000ft. (914m)

Application Diagrams

MaxiiCopper™ over Extended UTP

Vi3026 PoE Switch
NVR
Vi2301A — Extended distance UTP — **Vi2301A** — Data + POE — PoE Cameras
Data + POE

The Vi2301A provides extended distance IP data and PoE transmission over UTP cables up to 3,000 feet (915m), eliminating the need for local power supplies.

MaxiiCopper™ over Extended UTP **60W**

Data + 60W PoE — **Vi2301A** — Extended distance UTP Data + 60W PoE — **Vi2300A** — Data + 60W PoE — 60W PoE Camera
Junction Box

Vi2216 Midspam
Data + PoE — **Vi2301A** — Extended distance UTP Data + PoE — **Vi2301A** — Data + PoE — PoE Cameras

Network Switch   **NVR**

The Vi2301A can transmit power sources up to 74 W providing the power for PoE PTZ dome cameras with heaters and blowers. The mini series can be enclosed in common 4–squares and J-boxes, providing security and environmental protection.

IP Video

Multi Port *MaxiiCopper*™ over Extended UTP

60W

Vi2316A
Vi2216A
Network Switch
NVR
Extended distance Cat-5, Data + PoE — Vi2301A — Up to 328 ft. (100m) Cat-5 Data + PoE
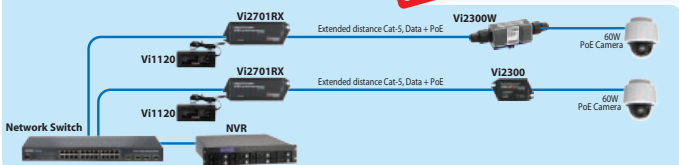Extended distance Cat-5, Data + PoE — Vi2301A
PoE Cameras

The multi-port MaxiiCopper™ UTP extenders are ideal transmission solution for larger CCTV systems. They are compact in size and require minimal rack space.
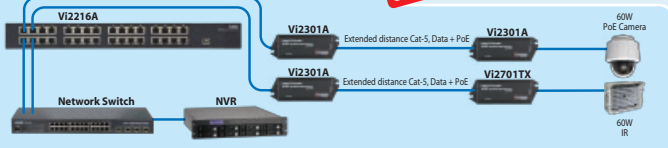
MaxiiCopper™ & Vi2701RX over Extended UTP

60W

Vi2701RX — Extended distance Cat-5, Data + PoE — Vi2300W — 60W PoE Camera
Vi1120
Vi2701RX — Extended distance Cat-5, Data + PoE — Vi2300 — 60W PoE Camera
Vi1120
Network Switch
NVR

The Vi2701RX and Vi2301A combination provides a single channel extended distance high power PoE for applications that have a limited number of cameras.

MaxiiCopper™ & Vi2701TX over Extended UTP

60W

Vi2216A
Vi2301A — Extended distance Cat-5, Data + PoE — Vi2301A — 60W PoE Camera
Vi2301A — Extended distance Cat-5, Data + PoE — Vi2701TX — 60W IR
Network Switch
NVR

The combination of Vi2301A and Vi2701TX provides long distance transmission of 802.3af/at power classes plus 60W PoE. Full class power can be provided up to 3,000 feet (909m).

MaxiiCopper™ & Vi2701RX over Extended UTP
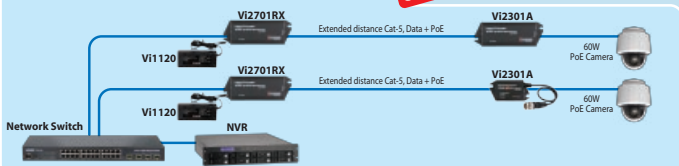
60W

Vi2701RX — Extended distance Cat-5, Data + PoE — Vi2301A — 60W PoE Camera
Vi1120
Vi2701RX — Extended distance Cat-5, Data + PoE — Vi2301A — 60W PoE Camera
Vi1120
Network Switch
NVR

The Vi2701RX and Vi2301A combination provides a single channel extended distance high power PoE for applications that have a limited number of cameras.

MaxiiCopper™ 4-port Switch over Extended UTP

60W

Vi2701TX — Data+ 60W PoE — Vi3105 — PoE Cameras
Vi1120
Network Switch
NVR
Data + PoE
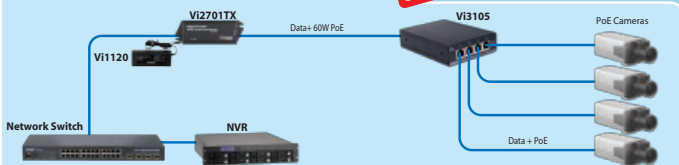
The Vi2701 is not only an extended distance data and 60W PoE solution, but it is also an extreme long distance solution with the ability to provide 802.3af at 3,000 feet, and 802.3at at 1,500 feet. It is the ideal solution for many outdoor dome cameras that require full AF/AT PoE power, such as perimeter, warehouse, and campus security.

IP Video

Model	Function
Vi3305	5-Port PoE Switch w/ 4-Port Extended Ethernet & PoE over UTP
Vi3405	5-Port PoE Switch w/ 4-Port Extended Ethernet & PoE over Coax

Application Diagrams
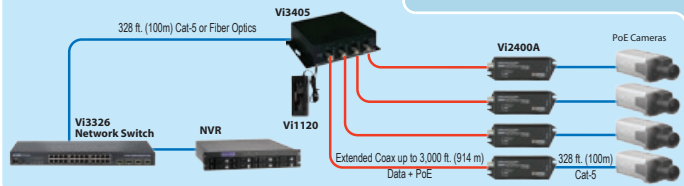
MaxiiNet™ 5-port Extended UTP PoE Switch
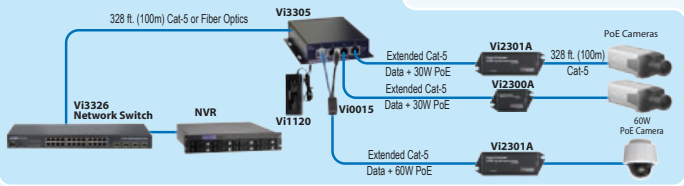
The Vi3305 is a Layer 2 PoE network switch with 4 extended UTP ports providing PoE and IP Video up to 3,000 feet. Each port provides up to 37W. Two ports can be combined to power IP-PTZ domes up to 74W. Smart Power Allocation (SPA) provides only the required device power.

MaxiiNet™ 5-port Extended UTP PoE Switch

The Vi3305 can be used along with Vi230xA to provide PoE and data connection to a wide variety of PoE powered devices.

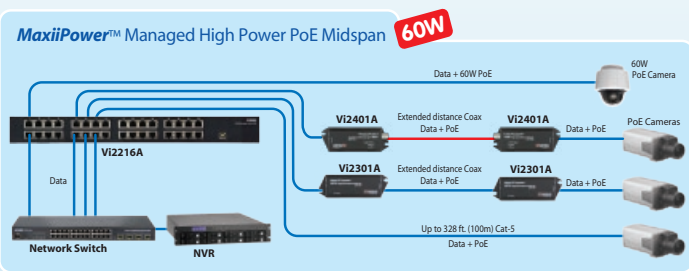### *MaxiiNet*™ 5-port Extended Coax PoE Switch

The Vi3305 is a Layer 2 PoE network switch with 4 extended Coax ports providing PoE and IP Video up to 2,000 feet. Each port provides up to 37W. Smart Power Allocation (SPA) provides only the required device power.
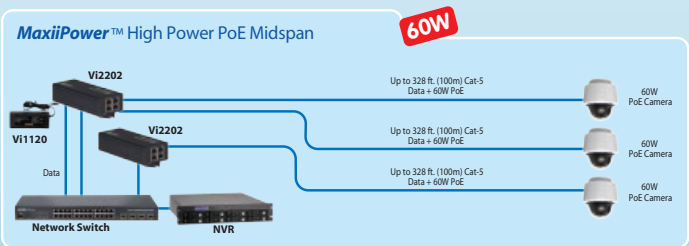
IP Video

MaxiiPower ™ High Power PoE Midspans

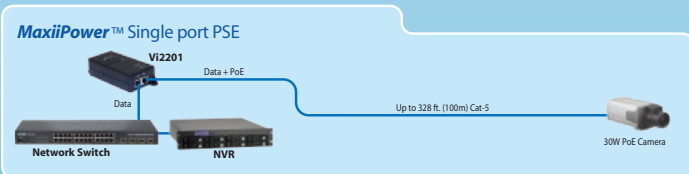| Model	Function
Vi2201	Single port 802.3 af/at Midspan
Vi2202	2-Port 802.3 af/at and 60W PoE Midspan
Vi2216LT	16-Port managed PoE Midspan, 37W/ per port, total 300W PoE power
Vi2208A	8-Port managed PoE Midspan, 37W/ all ports, 74W/ 4 ports, total 300W PoE power
Vi2216A	16-Port managed PoE Midspan, 37W/ all ports, 74W/ 4 ports, total 600W PoE power

Application Diagrams

MaxiiPower™ Managed High Power PoE Midspan **60W**

Data + 60W PoE — 60W PoE Camera

Vi2401A — Extended distance Coax Data + PoE — Vi2401A — Data + PoE — PoE Cameras

Vi2216A

Vi2301A — Extended distance Coax Data + PoE — Vi2301A — Data + PoE

Data

Up to 328 ft. (100m) Cat-5 Data + PoE

Network Switch — NVR

The high power 8 and 16-port managed PoE Midspans are ideal for any size project and any range of PoE requirement.

MaxiiPower™ High Power PoE Midspan **60W**

Vi2202 — Up to 328 ft. (100m) Cat-5 Data + 60W PoE — 60W PoE Camera

Vi1120 — Vi2202 — Up to 328 ft. (100m) Cat-5 Data + 60W PoE — 60W PoE Camera

Data — Up to 328 ft. (100m) Cat-5 Data + 60W PoE — 60W PoE Camera

Network Switch — NVR

The Vi2202 can be used as a 2-port Midspan and power each port up to 30W(802.3at). As a single port Midspan, it can power up to 60W, compatible with dual and single PD cameras. It also can provide up to 74W on each port when used with an appropriate external power supply.

MaxiiPower™ Single port PSE

Vi2201 — Data + PoE

Data — Up to 328 ft. (100m) Cat-5 — 30W PoE Camera

Network Switch — NVR

The Vi2201 is a compact and low cost Midspan that can provide up to 30W(802.3at) for a wide veriety of applications.

IP Video

MaxiiPower™ High Power Extended Coax PoE Midspans
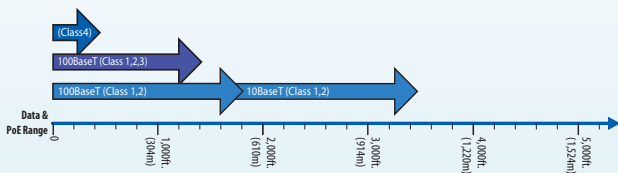
Model	Function
Vi2608	8- port Coax 10/100 Ethernet Extender w/ Managed built-in 300W PoE source
Vi2616	16- port 10/100 Ethernet Extender w/ Managed built-in 600W PoE source

- Provides 37W on all ports
- Extends 10BaseT data up to 5,000 ft.
- Extends 10/100 data & Class-3 PoE up to 1,500 ft.
- Fully manageable with Windows™ GUI through local USB or Network
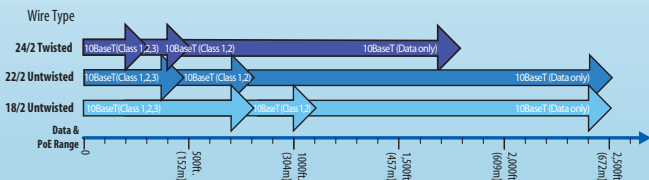
Data & PoE Range*

Coax Cable:


```
(Class4)
100BaseT (Class 1,2,3)
100BaseT (Class 1,2)          10BaseT (Class 1,2)
```

Data & PoE Range	0	1,000ft. (304m)	2,000ft. (610m)	3,000ft. (914m)	4,000ft. (1,220m)	5,000ft. (1,524m)

Application Diagrams

MaxiiPower™ & Vi2401 over Extended Coax

Vi2616
Network Switch
NVR
Extended distance Coax, Data + PoE — Vi2401A
Extended distance Coax, Data + PoE — Vi2401A
Up to 328 ft. (100m) Cat-5 Data + PoE
PoE Cameras

The Vi2301A provides Pass-Through-PoE (PTP™) eliminating the need for local power sources. It is a perfect solution for parking lots, loading docks and perimeter applications.
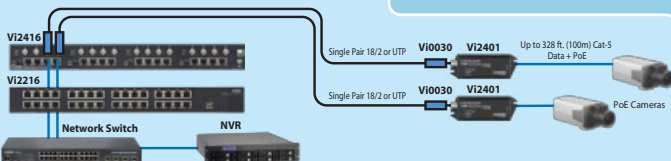
Data & PoE Range*

Single Pair Wires using Vi2400 series and Vi0030 (10BaseT only):

Wire Type

24/2 Twisted 10BaseT (Class 1,2,3) | 10BaseT (Class 1,2) | 10BaseT (Data only)

22/2 Untwisted 10BaseT (Class 1,2,3) | 10BaseT (Class 1,2) | 10BaseT (Data only)

18/2 Untwisted 10BaseT (Class 1,2,3) | 10BaseT (Class 1,2) | 10BaseT (Data only)

Data & PoE Range	0	500ft. (152m)	1000ft. (304m)	1,500ft. (457m)	2,000ft. (609m)	2,500ft. (672m)

Application Diagrams

MaxiiPower™ over Extended Single Pair Wires

Vi24416
Vi2216
Network Switch
NVR
Single Pair 18/2 or UTP — Vi0030 Vi2401
Single Pair 18/2 or UTP — Vi0030 Vi2401
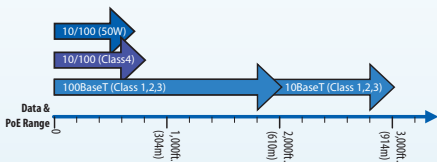Up to 328 ft. (100m) Cat-5 Data + PoE
PoE Cameras

The Vi24xx series are capable of running data and PoE power over single pair twisted or untwisted pair wires when used with Vi0030 adapter.

IP Video
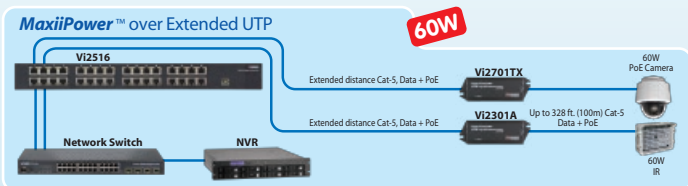
MaxiiPower™ High Power Extended UTP PoE Midspans

60W

60W

Model	Function
Vi2508	8- port 10/100 Ethernet Extender w/ Managed built-in 300W PoE source
Vi2516	16- port 10/100 Ethernet Extender w/ Managed built-in 600W PoE source

- Provides 37W on all ports and 74W on first 4 ports
- GUI connection through USB port and Network
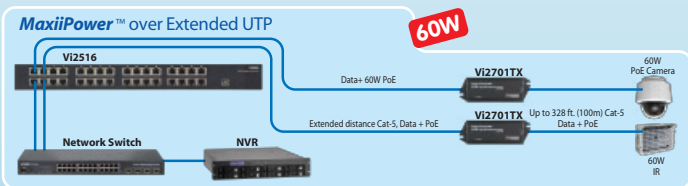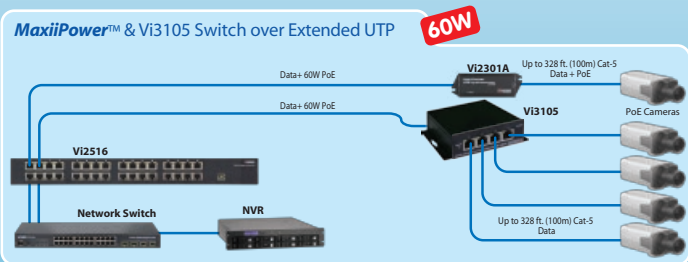- Extends 10/100 data & Class-3 PoE up to 2,000 ft.

Data & PoE Range*

10/100 (50W)

10/100 (Class4)

100BaseT (Class 1,2,3)

10BaseT (Class 1,2,3)

Data & PoE Range

0 — 1,000ft. (304m) — 2,000ft. (610m) — 3,000ft. (914m)

Application Diagrams

MaxiiPower™ over Extended UTP **60W**

Vi2516

Extended distance Cat-5, Data + PoE → Vi2701TX → 60W PoE Camera

Extended distance Cat-5, Data + PoE → Vi2301A → Up to 328 ft. (100m) Cat-5 Data + PoE → 60W IR

Network Switch   NVR

The Vi2516 combines both extended distance Ethernet transmission and high power Midspan in a single cost effective package. When combined with the Vi2301A, Class 3 PoE power can be transmitted up to 2,000 feet (606m) and Class 4 up to 1,300 feet (393m).

MaxiiPower™ over Extended UTP **60W**

Vi2516

Data+ 60W PoE → Vi2701TX → 60W PoE Camera

Extended distance Cat-5, Data + PoE → Vi2701TX → Up to 328 ft. (100m) Cat-5 Data + PoE → 60W IR

Network Switch   NVR

The above solution is ideal for PoE applications requiring power greater than 802.3at (30W) and for applications where full Class 3 or Class 4 power is need at extreme distances.

MaxiiPower™ & Vi3105 Switch over Extended UTP **60W**

Data+ 60W PoE → Vi2301A → Up to 328 ft. (100m) Cat-5 Data + PoE

Data+ 60W PoE → Vi3105 → PoE Cameras

Vi2516
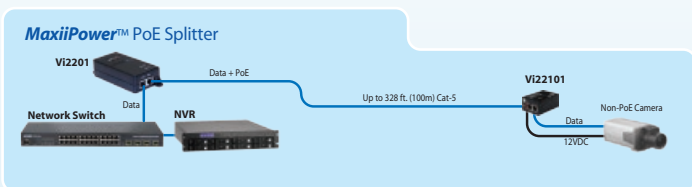
Network Switch   NVR

Up to 328 ft. (100m) Cat-5 Data

The Vi2301A provides Pass-Through-PoE (PTP™) without the need for local power sources. It is a perfect solution for parking lots, loading docks, and perimeter applications.

IP Video

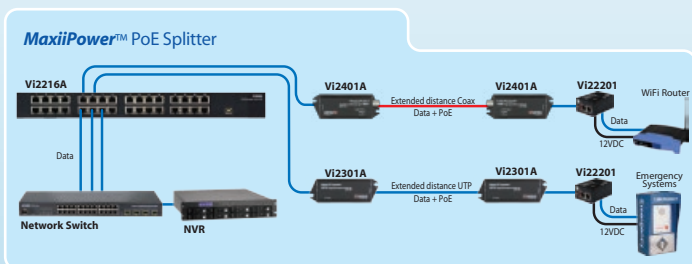## MaxiiPower™ PoE Splitters

Model	Function
Vi22101*	IEE802.3af (15.4 W) PoE Splitter with 12VDC Output
Vi22201*	IEE802.3at (25 W) PoE Splitter with 12/24VDC Output

* Available October 2015

Application Diagrams

MaxiiPower™ PoE Splitter

Vi2201 · Data + PoE · Network Switch · Data · NVR · Up to 328 ft. (100m) Cat-5 · Vi22101 · Data · 12VDC · Non-PoE Camera

The Vi22101 is a compact and low cost PoE splitter that can provide up to 15.4W at12VDC power to non-PoE cameras.

MaxiiPower™ PoE Splitter

Vi2216A · Vi2401A · Extended distance Coax · Data + PoE · Vi2401A · Vi22201 · WiFi Router · Data · 12VDC · Data · Vi2301A · Extended distance UTP · Data + PoE · Vi2301A · Vi22201 · Emergency Systems · Data · 12VDC · Network Switch · NVR

The Vi22201 is the ideal solution for using a PoE system to provide 12VDC or 24VDC power to non-PoE devices at standard or extended distances.

MaxiiPower™ PoE Splitter

Vi2201 · Data + PoE · Network Switch · Data · NVR · Up to 328 ft. (100m) Cat-5 · Vi22201 · Data · 12VDC · Non-PoE Managed lightIR

The Vi22201 is the ideal solution for using a PoE system to provide 12VDC or 24VDC power to non-PoE devices.

IP Video

MaxiiNet™ Hardend PoE Powered Drop & Insert Switches

Model	Function
Vi3003	60W , PoE Powered Drop & Insert 3-Port Layer 2 ,1G, PoE Switches
Vi3103	30W PoE Powered Drop & Insert 3-Port Layer 2 PoE Switches

60W

- Extends IP video & 60W PoE range up to 656 ft.
- Can daisy chain and power multiple cameras
- Can use PoE or a local power supply
- Layer 2 with all 1G ports (Vi3003)

Application Diagrams

MaxiiNet™ Vi3003 Powers 60W & 30W PoE cameras simultaneously **60W**

Network Switch — NVR — 328 ft. (100m) Cat-5, Data — Vi3003 — 328 ft. (100m) Cat-5 Data + 60W PoE — 60W PoE Camera — Vi1120 — 328 ft. (100m) Cat-5 Data + 30W PoE

Vi3003 allows for transmission of two cameras over a single cable or adding a new camera close to an existing camera.

MaxiiNet™ Vi3003 Connects 2 Network switches at 1GMbps **60W**

Network Switch — 328 ft. (100m) 1000BaseT — Vi3003 — Vi0025 — 328 ft. (100m) 1000BaseT — Network Switch — Vi0012 — Network Switch

The Vi3003 enables 1G connection between network switches eliminating the need for using fiber optics.

MaxiiNet™ Vi3003 3-port Drop & Insert 60W PoE Switch **60W**

Vi3326 Network Switch — NVR — Vi2216A — 328 ft. (100m) Cat-5, Data — Vi3003 — 328 ft. (100m) Cat-5 Data + 60W PoE — 60W PoE PTZ Camera — 328 ft. (100m) Cat-5 Data + PoE — Data — Data 60W PoE — Vi3003 — 328 ft. (100m) Cat-5 Data + 60W PoE — Vi3003 — 328 ft. (100m) Cat-5 Data + 30W PoE — Vi3003 — PoE Cameras — IR
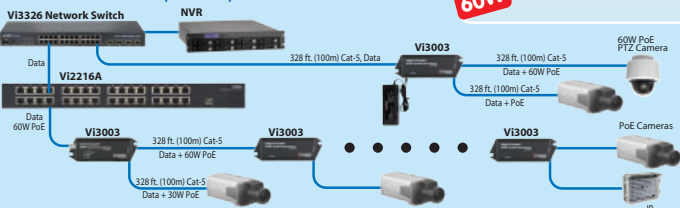
The Vi3003 is both a repeater and L2 3-port network switch providing drop and insert capability. It can be powered locally or from a single source providing up to 60W per port at network speeds of 1000 Mbp. Local power supply can be used for powering 60W PTZ dome cameras.

MaxiiNet™ Vi3103 3-port Drop & Insert 30W PoE Switch

Vi3026 PoE Switch — NVR — 328 ft. (100m) Cat-5 Data + 30W PoE — Vi3103 — 328 ft. (100m) Cat-5 Data + PoE — PoE Cameras — 328 ft. (100m) Cat-5 Data + 30W PoE — Vi3103 — 328 ft. (100m) Cat-5 Data + PoE — Vi3103 — 328 ft. (100m) Cat-5 Data + PoE — PoE Cameras — 328 ft. (100m) Cat-5 Data + PoE
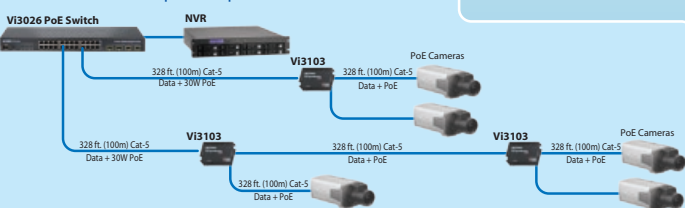
The Vi3103 is both a repeater and L2 3-port network switch providing drop and insert capability. It can be powered locally or from a single source providing up to 30W per port at network speeds of 100Mbps.

Vi3003 PoE vs. Distance

PoE	Distance	#of Vi3003
60W	380 ft. (130m)	1
50W	600 ft. (183m)	1
30W	800 ft. (242m)	2
15.96W	1,200 ft. (364m)	3
12.95W	1,900 ft. (580m)	5

IP Video

MaxiiNet™ Ethernet and 60W PoE Repeaters

Model	Function
60W **Vi3002**	Fast Ethernet and **60W** PoE Repeater
60W **Vi3002W**	Weatherproof (**IP67**) Ethernet and **60W** PoE Repeater

• Compact IP67 compliant weatherproof enclosure
• Extends IP video & 60W PoE range up to 656 ft.
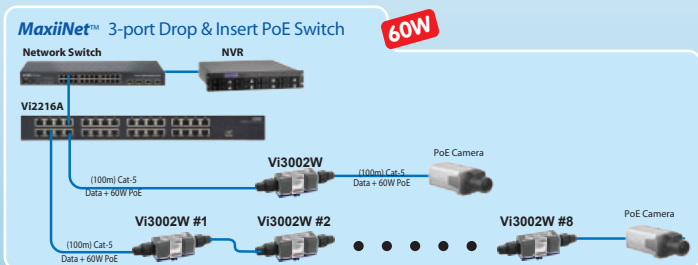• PoE powered with no need for local power

Application Diagrams

MaxiiNet™ over Extended UTP
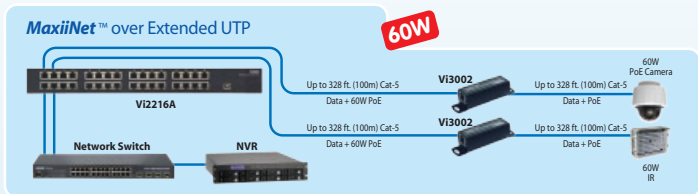
The Vi3002 extends IP video and 60W PoE range up to 656ft. (200m) per unit. It is compatible with 802.3af/at/60W PoE.

MaxiiNet™ over Extended UTP

Multiple Vi3002 units can be used to extend Ethernet and PoE at desired distances.

MaxiiNet™ 3-port Drop & Insert PoE Switch

The Vi3002W complies with IP67 standards eliminating extra housing costs. Its unique enclosure can easily be mounted to sides, buildings, or poles. Multiple Vi3002W units can be used outdoor to extend Ethernet and PoE at desired distances. The maximum reach of PoE will be:

PoE vs. Distance

PoE	Distance	#of Vi3002
60W	380 ft. (130m)	1
50W	650 ft. (198m)	1
50W	800 ft. (242m)	2
25.5W	1,200 ft. (364m)	3
12.95W	2,500 ft. (758m)	7
6.5W	3,000 ft. (909m)	8

IP Video

MaxiiCopper™ 60W PoE and Ethernet Extenders

Model	Function
Vi2701TX	60W PoE and Ethernet Extender (for Camera Side)
Vi2701RX	60W PoE and Ethernet Extender (for Control Room)

60W
60W

- Extends 10BaseT and 802.3af up to 3,000 ft. (672m)
- Extends 10/100BaseT and 802.3at up to 1,500 ft. (457m)
- Tested and and certified with major 60W cameras

Data & PoE Range*

10/100 (50W)
10/100 (Class4)
100BaseT (Class 1,2,3)   10BaseT (Class 1,2,3)

Data & PoE Range   0   1,000 ft. (304m)   1,000 ft. (610m)   2,000 ft. (610m)   3,000 ft. (914m)

Application Diagrams

MaxiiCopper™ over Extended UTP   60W

Vi2701RX   Data+ 60W PoE   Vi2701TX   60W PoE Camera
Vi1120
Vi2701RX   Data+ 60W PoE   Vi2701TX   60W IR
Network Switch   NVR
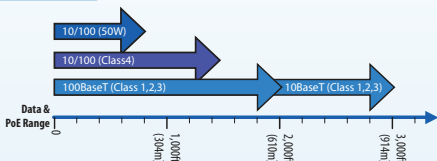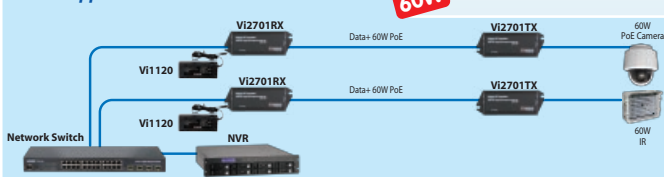
The Vi2701 is not only an Ethernet and 60W PoE extender, but it is also an extreme long distance solution with the ability to provide 802.3af/at 3,000 feet, and 802.3at at 1,500 feet. It is the ideal solution for any outdoor dome cameras that require full AF/AT/60W PoE power, such as perimeter, warehouse, and campus security.

MaxiiCopper™ over Extended UTP   60W

Vi2516A   Data+ 60W PoE   Vi2701TX   60W PoE Camera
Vi2701RX   Data+ 60W PoE   Vi2301A   Up to 328 ft. (100m) Cat-5 Data + PoE
Vi1120
Vi2701RX   Data+ 60W PoE   Vi2701TX   60W IR
Vi1120
Network Switch   NVR

The Vi2701TX provides 60W PoE at distances of up to 800 feet and eliminates the need for local power supplies.

MaxiiCollector™ 4-port Switch over Extended UTP   60W

Vi2701RX   Vi3105   PoE Cameras
Vi1120
Network Switch   NVR   Up to 328 ft. (100m) Cat-5 Data

The Vi2701RX and Vi2804AP combination can power up to 4 remote cameras by providing 74W to the Vi2804AP and up to 12.5W at each port of the Vi2804AP's Layer 2 PoE network switch.

PoE Accessories

Model	Function
60W Vi0015	Combiner cable for 74W PoE
Vi0024	PoE Enabler to power extenders when using with non-PoE devices
Vi0025	PoE Blocker to block PoE from constant power sources
Vi0017	48V, 40W Desktop Power Supply
60W Vi1120	56V, 120W Desktop Power Supply

Application Diagrams

MaxiiPower™ 60W PoE Application using Vi0015

Network Switch — NVR

Vi2216A — Vi0015

Data + 60W PoE — 60W PoE Camera

The Vi0015 can combine 2 PoE ports of Vigitron Midspans to provide up to 74W PoE power.

MaxiiNet™ **Vi3003** Connects 2 Network switches at 1GMbps

Network Switch — 328 ft. (100m) 1000BaseT — Vi3003 — Vi0012

Vi0025 — Network Switch

328 ft. (100m) 1000BaseT — Network Switch

The Vi0025 blocks PoE when "Always On" PoE ports are connected to non-PoE ports.

MaxiiPower™ High Power PoE Midspan **60W**

Vi2202

Vi1120 — Vi2202

Network Switch — NVR

Up to 328 ft. (100m) Cat-5 data + 60W PoE — 60W PoE Camera

Up to 328 ft. (100m) Cat-5 data + 60W PoE — 60W PoE Camera
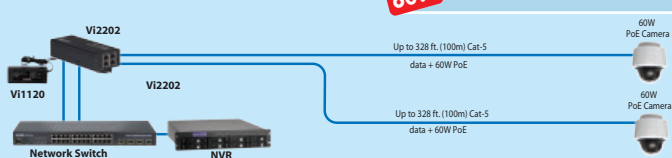
The Vi2202 can provide 60W on two ports when used along with Vi1120 power supply.

IP Camera Test Tools

Model	Function
Vi0021	IP Camera Setup & PoE Test Tool
Vi0019	PoE Camera Setup Tool

60W

Application Diagrams

ViewMate™ Setting up a PoE Camera

Power
ViewMate™
Data + Power
Vi0021
PoE Camera
Vi2216 PoE Midspan
Data
Data + Power
NVR
Network Switch
Power
Vi0019
Data
PoE Camera
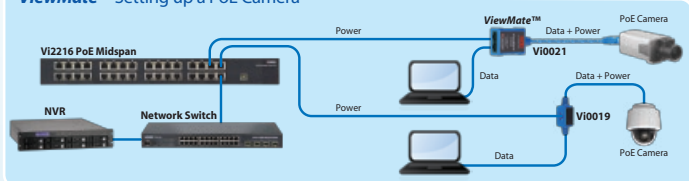
The Vi0021 is a PoE voltage and power meter with real time digital read-out. It can be used to troubleshoot PoE output power and cable connections. It saves valuable installation time by pinpointing the specific problem areas.

Surge Protection

Model	Function
Vi2001	Standard/Extended Ethernet Port Surge Protector

Application Diagrams

Extended Distance UTP

Standard Distance UTP

The Vi2001 is an in-line surge protector providing up to 15KV in free space and 8KV contact to ground protection. It is compact and does not require separate ground wire. Its cost effective design allows only for ports that need protection such as connections to IP cameras.

MaxiiFiber ™ Fiber Optics Transmision Equipment

Model	Function
Vi5001	Fiber Media convertor w/ built-in 30W PoE source
Vi5004*	4-Port Fiber Media convertor
Vi5004R*	Fiber Media convertor Rack Mounting Kit
Vi5004B*	Fiber Media convertor blank panel
Vi00850MM Vi00850MMH*	Mutlimode Single Format Pluggable fiber transceiver for up to 550m
Vi01310MM Vi01310MM*	Multimode Single Format Pluggable fiber transceiver for up to 2Km
Vi01310SM Vi01310SMH*	Singlemode single format pluggable fiber transceiver for up to 10Km

*Available October 2015

Application Diagrams

MaxiiFiber ™ Media Convertor w/PoE
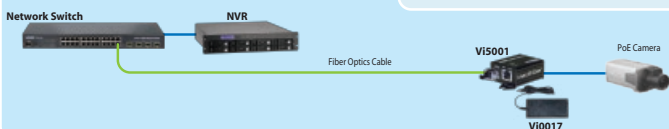
The Vi5001 provides PoE power to the IP camera. The fiber optics connection on the control side is through the optical port of the network switch.

MaxiiFiber ™ Media Convertor w/PoE
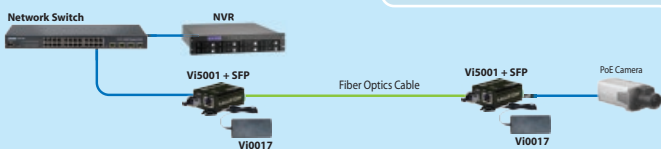
The Vi5001 provides PoE power to the IP camera. A Vi5001 is used to convert fiber optics connection to standard Ethernet and connect it to the network switch.

MaxiiFiber ™ Media Convertor w/PoE
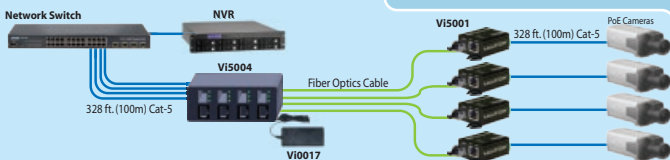
The Vi5001 is used on the camera side and Vi5004 on the eceiving end. Up to 4 Vi5004s can be rack mounted using the Vi5004R mounting kit.
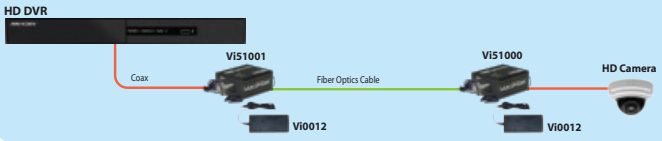
HD Video

MaxiiFiber ™ HD Fiber Optics Transmission Solutions

Model	Function
Vi51000*	1-Port HD Fiber optics Transmitter
Vi51001*	1-Port HD Fiber optics Receiver
Vi51004*	4-Port HD Fiber optics Receiver
Vi5100R*	Rackmount kit for to 4 Vi51001s
Vi5100B*	blank panel

• Supports HD-TVI, HD-CVI and AHD video formats
• Can use Single-mode or Multi-mode Fiber cables
*Available October 2015

Application Diagrams

MaxiiFiber ™ HD Video Fiber Optics Media Converters

HD DVR

Coax Vi51001 Fiber Optics Cable Vi51000 HD Camera

Vi0012 Vi0012

The Vi51001 is a 1-port Media converter receiver. It works in conjunction with Vi51000 Fiber Optics transmitter.

MaxiiFiber ™ HD Video Fiber Optics Media Converters

HD DVR

Vi51000 HD Cameras

Coax

Coax Vi51004 Fiber Optics Cable

Vi0017
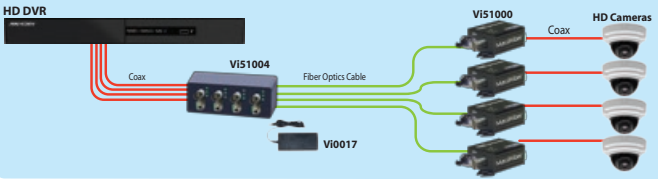
The Vi51004 is a 4-port Media converter receiver. It works in conjunction with Vi51000 Fiber Optics transmitter. Up to four Vi5004s can be rack mounted using the Vi5004R mounting kit.

HD Video Range**

62.5/125u Multimode 300m

50/125u Multi-mode 500m

9/125U Single-mode 20Km

**Distances are measured while testing with Vigitron equipment. Specifications may change if Vigitron units are mixed with those of other manufacturers. The maximum distance may vary depending on different HD technologies.

HD Video

Model	Function
Vi10001F	HD UTP Passive Transceiver, Female BNC
Vi10001M	HD UTP Passive Transceiver, Male BNC
Vi10001P	HD UTP Passive Transceiver, Pigtail Male BNC
Vi10004	HD 4-Port UTP Passive Transceivers
Vi10008	HD 8-Port UTP Passive Transceivers
Vi10016	HD 16-Port UTP Passive Transceivers

• Transmits HD signals over extended UTP
• Supports HD-TVI, HD-CVI and AHD video
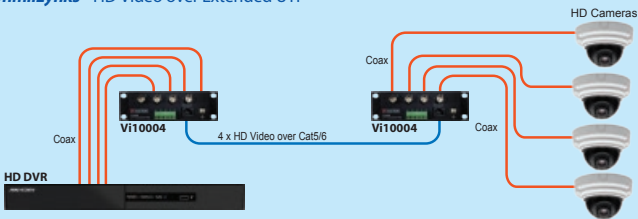• No power needed
• Low cost and compact size

Application Diagrams

OnmiiLynks™ HD Video over Extended UTP
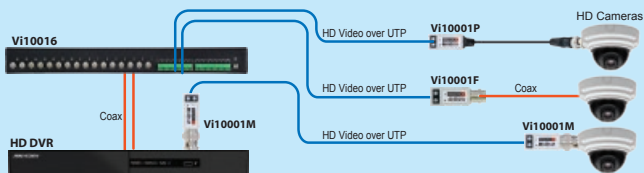
Vigitron offers a variety of passive transceivers to simplify the CCTV installations.

OnmiiLynks™ HD Video over Extended UTP

The Vi1004 can transmit 4 HD videos on a single Cat5/6 cable to save installation time and cost.

OnmiiLynks™ HD Video over Extended UTP

Using a Vi61000 active UTP transmitter in conjunction with passive transceivers will provide longer distance and better quality HD video.
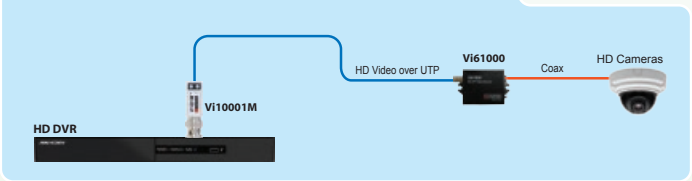
HD Video

OnmiiLynks ™ HD-TVI, HD-CVI, AHD Active UTP Video Tx/Rx

Model	Function
Vi61000	HD UTP Active Transmitter
Vi61001	HD UTP Ative Receiver with Built-in Distribution Amplifier

- Tramsmitts HD signals over extended UTP
- Supports HD-TVI, HD-CVI and AHD video
- Vi61001 Receiver does not need adjustment
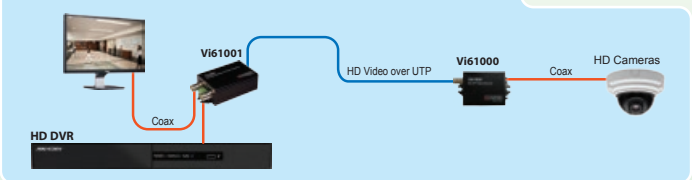- Easy to install and compact in size

Application Diagrams

OnmiiLynks™ HD Video over Extended UTP

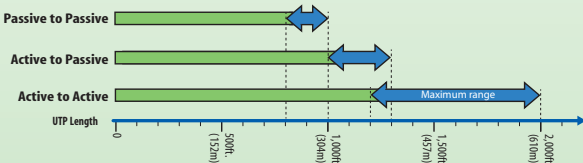HD Video over UTP · Vi61000 · Coax · HD Cameras · Vi10001M · HD DVR

Using a Vi61000 active UTP transmitter in conjunction with passive transceivers will provide longer distance and better quality HD video.

OnmiiLynks™ HD Video over Extended UTP

Vi61001 · HD Video over UTP · Vi61000 · Coax · HD Cameras · Coax · HD DVR

A Vi61000 active UTP transmitter and Vi61001 active receiver can provide clear HD images at long distances over Cat5/6 cables.

HD Video Range*

Passive to Passive
Active to Passive
Active to Active — Maximum range
UTP Length

0 · 500ft. (152m) · 1,000ft. (304m) · 1,500ft. (457m) · 2,000ft. (610m)

*Distances are measured while testing with Vigitron equipment. Specifications may change if Vigitron units are mixed with those of other manufacturers. The Blue arrow indicates the range variation for maximum distance that depends on using different HD technologies.
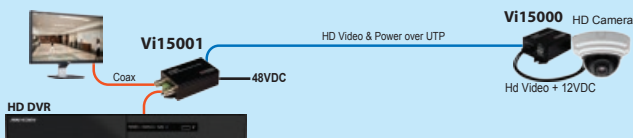
HD Video

Model	Function
Vi15000	UTP HD Video and Power Transmitter wi/ buit-in 12VDC Power supply
Vi15001	1-Port UTP HD Video and Power Receiver
Vi15008*	8-Port UTP HD Video and Power Receiver w/ built-in Power Supply
Vi15016*	16-Port UTP HD Video and Power Receiver w/ built-in Power Supply

- Provides HD signal & power over a UTP cables
- Supports HD-TVI, HD-CVI and AHD video
- Eliminates the need for local power supply by providing 12VDC to the camera
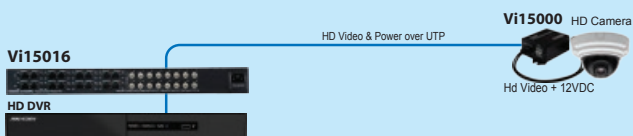
*Available October 2015

Application Diagrams

OnmiiLynks™ HD Video & Power over Extended UTP

Vi15000 transmitter and Vi15001 receiver provide an easy and cost effective method to provide HD video and power connection over a single UTP cable, and eliminate the need for camera local power supplies.

OnmiiLynks™ HD Video & Power over Extended UTP

Vi15016 and Vi15008 are 16 and 8 channel UTP receivers. Rack mounted with built-in power supplies, they provide an easy solution to provide HD video and power connection for multi HD camera systems, and eliminate the need for camera local power supplies.

The Vi51000 series can transmit HD Video at maximum distances from 1,200 feet (365m) to 2,000 feet (609m) depending on the video format and wire quality. It can provide 10W camera power at 1,500 feet (457m) and 8W at 2,000 feet (609m).

HD Video

OnmiiLynks ™ HD-Video and Power Coax Transmission
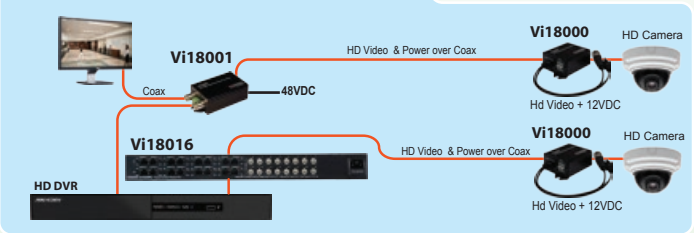
Model	Function
Vi18000*	Coax HD Video and Power Transmitter
Vi18001*	1-Port Coax HD Video and Power Receiver
Vi18008*	8-Port Coax HD Video and Power Receiver w/ built-in Power Supply
Vi18016*	16-Port Coax HD Video and Power Receiver w/ built-in Power Supply

*Available November 2015

- Provides HD signal & power over UTP cables
- Supports HD-TVI, HD-CVI and AHD video
- Provides 12VDC to the camera
- Eliminates the need for local power supply by providing 12VDC to the camera

OnmiiLynks™ HD Video & Power over Extended Coax

Vi18001 — Coax — 48VDC

HD Video & Power over Coax

Vi18000 — HD Camera — Hd Video + 12VDC

Vi18016 — HD DVR

HD Video & Power over Coax

Vi18000 — HD Camera — Hd Video + 12VDC

Vi18016 and Vi18008 are 16 and 8 channel HD Coax receivers. Rack mounted with built-in power supplies, they provide an easy to install system solution for multi channel HD camera system eliminating the need for local camera power supplies and outlets.

OnmiiLynks™ HD- Video Distribution Amplifier

Model	Function
Vi16002	1-2 Distribution Amplifier
Vi16004	1-4 or two 1-2 Distribution Amplifier

Application Diagrams

OnmiiLynks™ 1 to 4 HD Video Distribution Amplifier

Coax

Vi16002

Vi16004

HD Cameras

HD Cameras

Coax

HD DVR
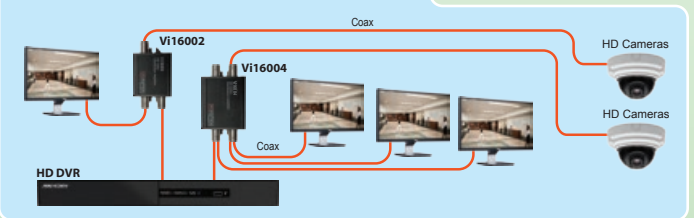
The Vi16002 and Vi16004 distribution amplifers provide multiple HD Video output for applications requiring multiple viewing monitors and recording.

Video Solutions

Passive Transceivers

Model	Surge Protection*
VB1001F VB1001M VB1001P VB1007M	No
Vi1001P Vi1003M Vi1006M	Differential
Vi1001F Vi1001M	Differential & Common
Vi1062	Differential
Vi1004	Differential & Common
Vi1008 Vi1016 Vi1032	Differential & Common

Active Receivers

Model	Adjustment	Range
Vi6200VR Vi6100VR Vi6100DR	Automatic Manual Manual	4,000 ft./1,220 m 6,000 ft./1,830 m 6,000 ft./1,830 m
Vi6204 Vi6104	Automatic Manual	4,000 ft./1,220 m 6,000 ft./1,830 m
Vi6208 Vi6108 Vi6308	Automatic Manual Automatic	4,000 ft./1,220 m 6,000 ft./1,830 m 6,000 ft./1,830 m
Vi6216 Vi6116 Vi6316	Automatic Manual Automatic	4,000 ft./1,220 m 6,000 ft./1,830 m 6,000 ft./1,830 m
Vi6232 Vi6132 Vi6332	Automatic Manual Automatic	4,000 ft./1,220 m 6,000 ft./1,830 m 6,000 ft./1,830 m

Transmitters

Model	Function
Vi6300VT Vi6100VT	Video Transmitter Video Transmitter
Vi6100DT	Video & Data Transmitter

Short Range Products (750 ft. / 228m)

Model	Function
Vi1051VP **Vi1053VPD** **Vi1054VPD**	Combiner w/ Video transmitter Combiner w/ Video transmitter 12 VDC Combiner w/ Video transmitter
Vi1204VPD	Combiner w/ Video Receiver
Vi1216VPD	Combiner w/ Video Receiver
Vi1508VPD	Combiner w/ Video Receiver and 24/28 VAC Power Supply
Vi1516VPD	Combiner w/ Video Receiver and 24/28 VAC Power Supply

Long Range Products (6,000 ft. / 1,830m)

Model	Function
Vi1304VPD	Video/Power/Data Combiner
Vi1316VPD	Video/Power/Data Combiner
Vi1408VPD	Video/Power/Data Combiner with and 24/28 VAC Power Supply
Vi1416VPD	Video/Power/Data Combiner with and 24/28 VAC Power Supply

Power Supplies

Model	Function
Vi1108PS	220W Isolated 24/28 VAC Power Supply
Vi1116PS	440W Isolated 24/28 VAC Power Supply
Vi1100PS	24 VAC/DC to 12 VDC Converter
Vi0012	12W, 12VDC Wallmount Power Supply
Vi0014	36W, 12VDC Wallmount Power Supply

*Specifications are subject to change without notice.

Excellent solutions for IP, HD and Analog CCTV transmission solutions

IP Video

Vigitron's IP transmission solutions are designed to satisfy needs for any size applications. They provide extreme PoE power and extended distance transmission over Cat5/6, Coax, single pair wires and fiber optics.

HD Video

Vigitron offers AHD, HD-CVI and HD-TVI video format transmission solutions using Coax , UTP and fiber optics. Selected models provide power along with video and eliminate the need for local power supplies at the remote camera location. Our HD products are designed in cooperation with world leading HD video camera manufacturers.

Analog Video

Vigitron provides infrastructure solutions for IP, HD and Analog systems supported by free and without obligation Design Center Services.

Vigitron is the One Solution for all CCTV transmission applications.

VIGITRON
U T P   I N N O V A T I O N S ™

Headquarters:
7810 Trade Street
Suite 100
San Diego, CA 92121
888-574-8942 **Toll Free** (USA & Canada)
Tel: (+1) 858-484-5209
Fax: (+1) 858-484-1205

E-mail: support@vigitron.com
www.vigitron.com

Vigitron Central Europe:
Schweiz:
barox Kommunikation AG
CH-5405 Baden-Dättwil
Tel: +41 56 210 45 20
Deutschland/Österreich:
barox Kommunikation GmbH
D-79539 Lörrach
Tel: +41 7621 5500 280
www.vigitron.de

Presented by:

World-Wide Access Partner
PCSC
PCSCsecurity.com

3541 Challenger St.
Torrance, CA 90503

310.303.3600
800.899.PCSC

VIG92015