Vi1516VPD

16-Ch Powered VPD Combiner with UTP Receiver

Features

- Supports up to 16 cameras by providing Video, class II Power, and Data on a single Cat-5 cable per camera for up to 750 feet (230m)
- Built-in passive transceivers with surge protection
- 16 isolated camera power individually selectable 24 or 28 VAC at 1 A max per channel, 12 A aggregated
- A glass fuse per channel, accesable from front panel
- Use with the Vi1053VPD transceiver at the camera
- · Power present and fault indicator LEDs for each camera
- 60 dB cross talk and noise suppression on video signals
- 19", low profile 1U wall or rack-mountable
- 1U high wall or rack-mountable, 12" deep
- Cooling fans with temperature control
- Designed for structured wiring applications
- Limited Lifetime warranty

Applications

- Security and Surveillance
- Department Store and Casino Security
- · Schools, Hospitals, Airports
- Structured Wiring Applications

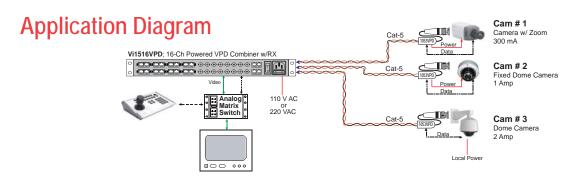


Power Distance Chart

Power Supply Voltage		12 VDC	24 VAC	28 VAC
Voltage at the camera		11.5 VDC	21 VAC	21 VAC
100 mA Camera	Dual 24 AWG	/G 175 ft	1,000 ft	2,500 ft
100 min Camera	Dual 22 AWG	300 ft	1,500 ft	4,000 ft
300 mA Camera	Dual 24 AWG	50 ft	350 ft	850 ft
500 mr Councia	Dual 22 AWG	100 ft	600 ft	1,400 ft
1 Amp Camera	Dual 24 AWG	15 ft	100 ft	250 ft
1 Amp Camera	Dual 22 AWG	30 ft	150 ft	400 ft

The Vi1516VPD is a passive transeceiver device that also combines video, PTZ data, and camera power over a single 4-pair UTP cable to simplify CCTV installations in a structured wiring environment. It supports up to 16 cameras for up to 750 feet and is designed to be installed in the control room. The Vi1516VPD has a 16-ch fully isoplated class II built-in 28/24 VAC power supply. Each camera power output is equipped with a 2 A glass fuse accessable from front panel for extra protection.

At the camera end the Vi1053VPD video balun/combiner provides Video, power and data on separate outputs. The video connections are through 16 BNC Connectors and to the DVR or matrix switches. The data connections to the DVR are through 4-pair RJ-45 cables. There is a separate data connection for each camera. All equipment follow industry-standard EIA/TIA 568B pinouts. The Vi1516VPD is an ideal CCTV component for structured cabling environment.







Technical Specification*

Electrical

Input Voltage
Input Current
Camera Power

110 VAC or 220 VAC, internally switch selectable
4.8 Amps (110 VAC) / 2.4 Amps (220 VAC)
Voltage: Isolated Class II, 24 V AC, off, 28V AC

Rear Panel switch selectable

Current: 1 A Max per camera, 12 A Max agregated

Power: 340 VA

Fault Protection 2 A glass fuse (front access) per camera

Video Format NTSC, PAL, SECAM Frequency 20 Hz to 10 MHz

CMRR 60 dB

Twisted Pair (UTP) 100 Ohms +/- 20%, 24 AWG min, Category 2-7
Diagnostics LEDs No Load or Shut down: 16 Red LEDs, one per channel
Power Present: 16 Green LEDs, one per channel

Connectors Camera Connection: RJ-45 Connector

Data: RJ-45 Connector Control Room Video: BNCs

Transient Immunity per ANSI 587 C62.41

Environmental

Humidity 0 to 95%, non-condensing Temperature Operating: -20C to +50C

Storage: -30C to +70C

Minimum Airflow 5 ft /min Heat 1300 BTU/hour

Mechanical

Dimensions 1.75x17x12 Inches, 4.3x43x30.5 cm (HxWxL)

Weight 22 Lb, 10 Kg Material Steel Sheet Metal

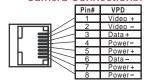
Ordering Information

PART No.	Description
Vi1508VPD	8-Ch Powered VPD Combiner-Receiver
Vi1516VPD	16-Ch Powered VPD Combiner-Receiver

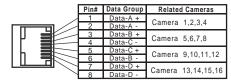
System Configuration

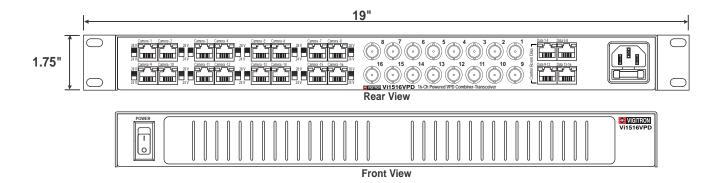


Camera Connections:



Control Room Data Connections:





Wire and Cable Recommendations

The Vigitron products are designed to be used with unshielded twisted pair (UTP) wiring. The UTP wire must be 24AWG - 12AWG or Category 2 - 7 cable. Multi-pair cable with an overall shield is acceptable, however individually shielded pairs should be avoided, Multiple UTP Video feeds can be operated in the same communication cable along with telephone, computer, control signals and low power voltages. While UTP video may be routed through punch-down block terminals, any resistive, capacitive or inductive devices (such as T-taps or MOV's) must not be used, . For more specific information regarding wire types and proper installation techniques, please contact Vigitron for technical assistance.



^{*}Specifications subject to change without notice.