



## Model NV-16PS13-PVD Power Supply Passive Video Receiver Hub



Front



Rear



### Features:

- Provides Class 2 SELV camera power while receiving video transmission and delivering P/T/Z telemetry all over a single 4-pair Cat5e cable
- Standard telecom/datacom structured cabling pinouts per EIA/TIA 568B
- Independently selectable 24VAC-OFF-28VAC with 1 Amp per channel\*
- Automatic-reset fault protection; transient protection
- Individually floating outputs ensure total ground-loop immunity
- Diagnostic LEDs show load/no load, miswires, and overload conditions
- Use with the NV-216A-PV, NV-218A-PVD, or NV-226J-PV transceiver at the camera
- Power cameras via UTP over significant distances (See Power Distance Chart)
- 1U high; 12" deep; wall, desk, or rack-mountable, 2ft (60cm) BNC Cables included
- Limited lifetime warranty

The 16-channel NV-16PS13-PVD is a key hybrid component that consolidates all CCTV system cabling using standard EIA/TIA 568B structured building wiring. Designed for installation in the IDF/Telecom Closet or MDF/Equipment Room, the Power Supply Passive Video Receiver Hub has independently selectable 24VAC-OFF-28VAC outputs that can support at-distance camera loads up to 1 Amp per channel (10 Amps aggregate). Use with NVT's PVD™ transceivers for cable runs under 750ft (225m). A built-in passive receiver hub allows connection to DVR or an encoder for IP transmission. Per-channel diagnostic LEDs display load/no-load, miswires, or fault conditions at a glance. Automatic-reset fault protection, transient protection, and ground loop free individually floating outputs.

\*10 Amps, aggregate to comply with CB1IEC60065

### Network Video Technologies

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# Model NV-16PS13-PVD

## Power Supply Passive Video Receiver Hub

### Technical Specifications

#### WIRE DISTANCE (Power Distance Charts)

Supply voltage, wire resistance and minimum camera operating voltage determine the maximum camera distance. Examples assume a minimum 21VAC at the camera:

**Notes:** Wire should be Cat5 or better/ low voltage camera power, video and RS-422 or RS-485 data may reside within the same wire bundle, however do not run 24 or 28VAC within the same wire bundle as other telecom or datacom signals.

Fixed 24VAC Camera		NV-216A-PV	
Power Supply Voltage	24 VAC	28 VAC	
Minimum Voltage at Camera	21 VAC	21 VAC	
<b>B&amp;W Camera 100 mA, 2.4 W</b>			
2-pair 24 AWG	899ft (274m)	2,098ft (640m)	
2-pair 23 AWG (Cat6)	1,134ft (346m)	2,645ft (807m)	
<b>Color Camera 200 mA, 4.8 W</b>			
2-pair 24 AWG	450ft (137m)	1,049ft (320m)	
2-pair 23 AWG (Cat6)	567ft (173m)	1,323ft (403m)	
<b>Color Camera 300 mA, 7.2 W</b>			
2-pair 24 AWG	300ft (91m)	699ft (213m)	
2-pair 23 AWG (Cat6)	378ft (115m)	862ft (269m)	

P/T/Z 24VAC Camera		NV-218A-PVD	
Power Supply Voltage	24 VAC	28 VAC	
Minimum Voltage at Camera	21 VAC	21 VAC	
<b>P/T/Z Camera 1,000 mA, 2.4 W</b>			
2-pair 24 AWG	90ft (27m)	210ft (64m)	
2-pair 23 AWG (Cat6)	113ft (35m)	265ft (81m)	

Fixed 12VDC Camera		NV-226J-PV	
Power Supply Voltage	24 VAC	28 VAC	
Minimum Voltage at Camera	11.5 VDC	11.5 VDC	
<b>B&amp;W Camera 200 mA, 2.4 W</b>			
2-pair 24 AWG	1,498ft (457m)	2,098ft (640m)	
2-pair 23 AWG (Cat6)	1,889ft (576m)	2,645ft (807m)	
<b>Color Camera 400 mA, 4.8 W</b>			
2-pair 24 AWG	874ft (267m)	1,174ft (358m)	
2-pair 23 AWG (Cat6)	1,102ft (336m)	1,480ft (452m)	

#### VIDEO

Frequency response DC to 5 MHz  
 Attenuation 0.5 dB typ  
 Common-mode / Differential-mode rejection 15 KHz to 5 MHz 60 dB typ  
 Impedance  
 Coax, female BNC 75 ohms  
 UTP, RJ45 100 ohms  
 Network Wiring One four-pair Cat5 or better per channel

#### CAMERA POWER

Each camera is powered by a fully isolated (floating) Class 2 SELV output, individually switchable 24VAC / Off / 28 VAC at up to 1 Amp (10 Amps aggregate). Each output is individually thermistor protected for auto-reset after fault removal.

#### POWER

Power inlet IEC with molded power cord (included)  
 Voltage 115 / 230V  
 Current 3.0 / 1.5 Amps  
 Protection 5x20mm type T fuse 5Amp 250V  
 Wattage 325 Watts  
 Heat (power supply only) 125 BTU / Hour  
 (power supply with cameras) 1,200 BTU / Hour

#### FRONT PANEL LEDs

System Power: Blue LED  
 Per-channel LED Indicates:  
 Off No load connected  
 Green Load connected and working  
 Amber Mis-wiring detected  
 Red Overload fault condition

#### ENVIRONMENTAL

Ambient Temperature -4 to +122 °F (-20 to +50 °C)  
 Minimum airflow 20ft<sup>3</sup>/min (0.5m<sup>3</sup>/ min)  
 Humidity (non-condensing) 0 to 95%  
 Transient Immunity per ANSI / 587 C62.41

#### MECHANICAL

Dimensions, including connectors 19in wide, 1.73in high, 12in deep  
 43cm wide, 4.5cm high, 20cm deep  
 Weight 24.9lb (11,3kg)

#### ACCESSORIES (included)

Mounting Rack mount "L" brackets for front, rear, or wall installations; rubber feet for desk applications  
 Cables Sixteen 2ft (60cm) coax jumpers  
 Molded IEC power inlet cord 7ft (200cm)

#### OPTIONAL EQUIPMENT

Mounting NV-RMBK2 Rear Mount Support Kit (designed for use with thinner metal equipment racks)  
 NV-WMBK2 Wall Mount Bracket Kit (heavy duty)

#### REGULATORY



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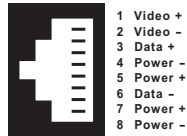


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## Power Supply Passive Video Receiver Hub

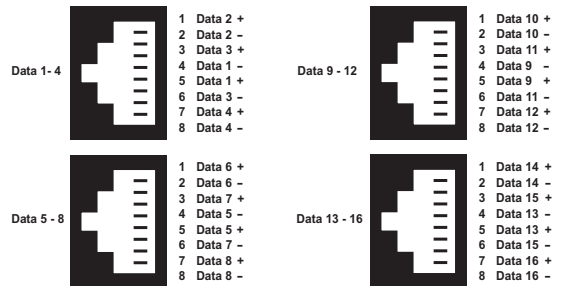
### CAMERA PVD CONNECTIONS

Sixteen front-panel RJ45 outputs support up to sixteen fixed or P/T/Z telemetry cameras over 4-pair UTP Cat5 or better.



### CONTROL ROOM DATA

RS-422 or RS-485 type P/T/Z telemetry / data signals are passed through the unit and delivered to the control room via a rear-panel RJ45 connector.

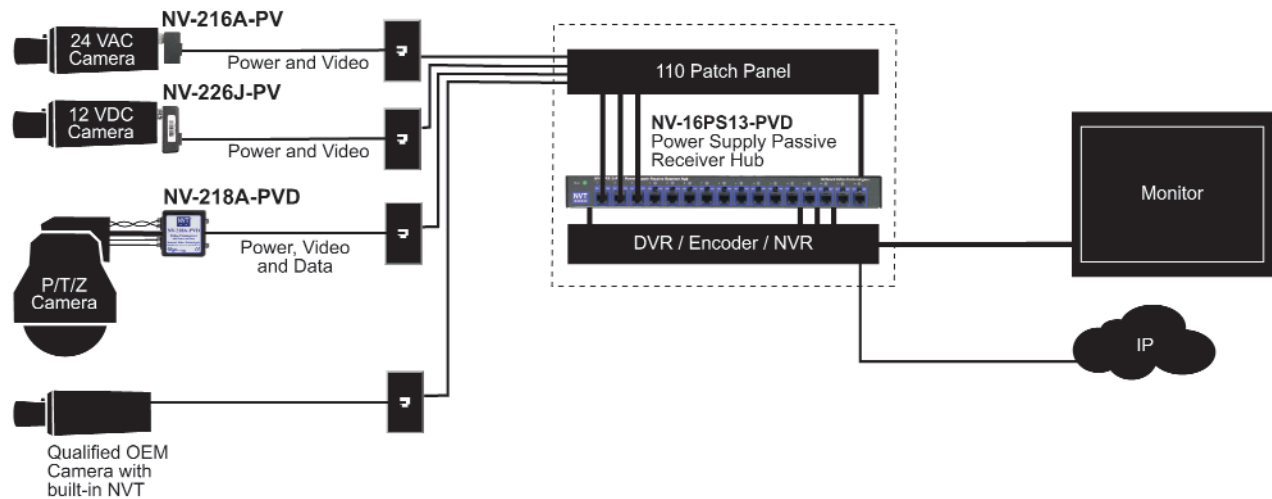


Specifications subject to change without notice.

### Typical Application

#### Camera Location and Transmitter Connections

#### IDF / Telecoms Room or MDF / Control Room Receiver Connections



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