



## Model NV-8PS13-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; 8" deep; wall, desk, or rack-mountable, 2ft (60cm) BNC Cables included
- Limited lifetime warranty

The 8-channel NV-8PS13-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. 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.

#### Network Video Technologies

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### 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:

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)	

**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.

#### 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/ 28VAC at up to 1 Amp. Each output is individually thermistor protected.

#### POWER INPUT

Power inlet	IEC with molded power cord (included)
Voltage	115 / 230VAC
Current	2.5 / 1.25 Amps
Protection	5x20mm type T fuse 2.5Amp 250V
Wattage	250 Watts
Heat	(power supply only) 100 BTU / Hour (power supply with cameras) 900 BTU / Hour

#### POWER OUTPUT

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

#### 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	14lb (6,35kg)

#### ACCESSORIES (included)

Mounting	Rack mount "L" brackets for front, rear, or wall installations; rubber feet for desk applications
Cables	Eight 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)
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#### REGULATORY



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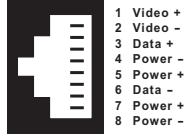


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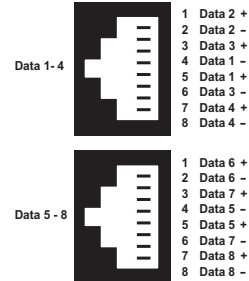
### CAMERA PVD CONNECTIONS

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



### CONTROL ROOM DATA

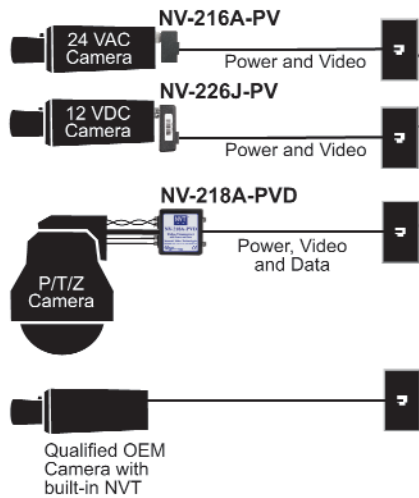
RS-422 or RS-485 type P/T/Z telemetry / data signals are paralleled together in groups of four, and passed through the unit and delivered to the control room via a rear-panel RJ45 connector.



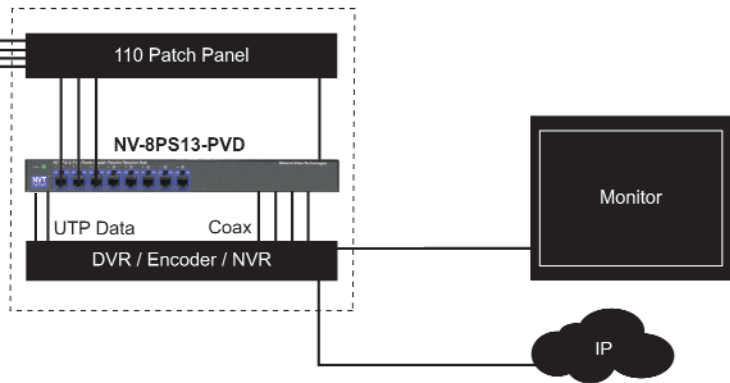
Specifications subject to change without notice.

### Typical Application

#### Camera Location and Transmitter Connections



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



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 411-7208-1-E