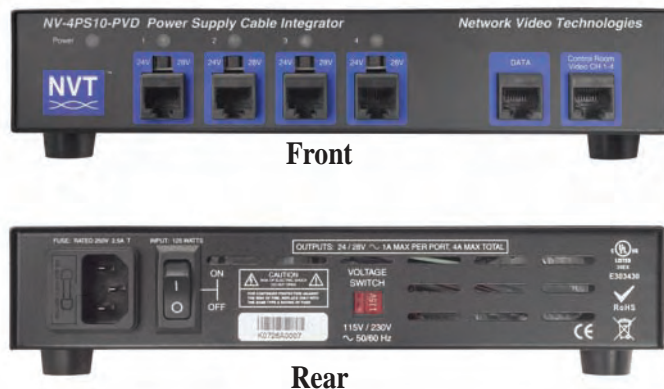




Model NV-4PS10-PVD Power Supply Cable Integrator Hub



Features:

- ▶ Provides Class 2 SELV camera power and pass-through video & telemetry data connectivity for up to 4 cameras, each via a single RJ45 4-pair UTP cable
- ▶ Standard telecom/datacom structured cabling pinouts per EIA/TIA 568B
- ▶ Independently selectable 24 or 28 VAC with 1 Amp max 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 or the NV-218A-PVD or the NV-226J-PV transceiver at the camera
- ▶ Power cameras via UTP over significant distances (See power distance chart)
- ▶ 1.75" high X 7.25" deep X 9.25" wide, wall, or desk mount
- ▶ Limited lifetime warranty

The NVT model NV-4PS10-PVD combines a 1 Amp/channel power supply with pass through video and telemetry data, for up to 4 cameras, all over UTP wire. Designed for installation in the wiring/IDF telecom closet, or at the Control/MDF room, the NV-4PS10-PVD consolidates connectivity via standard 4-pair RJ45 EIA/TIA 568B compliant premises wiring and pinouts.

At the camera, Power, Video and Data connections are made using the NV-216A-PV (power-video only) NV-218A-PVD, or NV-226J-PV transceiver via an RJ45 connector and a single 4-pair cable. Control/MDF room connections are achieved with a single 4-pair RJ45 cable for each group of four cameras. Telemetry data, if required, passes through the NV-4PS10-PVD's data path and is connected to the controller via a second 4-pair RJ45 cable.

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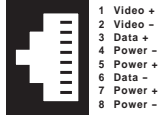


Model NV-4PS10-PVD Power Supply Cable Integrator Hub

Technical Specifications

Camera Power-Video-Data Connections

Four front-panel RJ45 outputs support up to four fixed or P/T/Z telemetry cameras over 4-pair UTP



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.

Wire Distance

Supply voltage, wire resistance and minimum camera operating voltage determine the maximum camera distance. Assume a minimum 21VAC or 11.5 VDC at the camera:

Standard Distance	NV-216A-PV at the 24 VAC Camera	
Power Supply Voltage	24 VAC	28 VAC
B&W Camera 24 VAC, 100 mA, 2.4 W		
2-pair 24 AWG	807ft (246m)	2,100ft (640m)
2-pair 23 AWG (Cat6)	1,018ft (310m)	2,647ft (1km)
Color Camera 24 VAC, 200 mA, 4.8 W		
2-pair 24 AWG	404ft (123m)	1,050ft (320m)
2-pair 23 AWG (Cat6)	509ft (155m)	1,324ft (403m)
Color Camera 24 VAC, 300 mA, 7.2 W		
2-pair 24 AWG	268ft (82m)	699ft (213m)
2-pair 23 AWG (Cat6)	339ft (103m)	882ft (269m)

Pan/Tilt/Zoom	NV-218A-PVD at the 24 VAC Camera	
Power Supply Voltage	24 VAC	28 VAC
P/T/Z Camera 24 VAC, 1 Amp, 24 W		
2-pair 24 AWG	90ft (27m)	210ft (64m)
2-pair 23 AWG (Cat6)	110ft (33m)	265ft (80m)

Extended Distance	NV-226J-PV at the 12 VDC Camera	
Power Supply Voltage	24 VAC	28 VAC
B&W Camera 12 VDC, 100 mA, 1.2 W		
2-pair 24 AWG	3,000ft (1km)	3,000ft (1km)
2-pair 23 AWG (Cat6)	3,000ft (1km)	3,000ft (1km)
Color Camera 12 VDC, 200 mA, 2.4 W		
2-pair 24 AWG	1,569ft (478m)	2,136ft (650m)
2-pair 23 AWG (Cat6)	1,978ft (602m)	2,693ft (821km)
Color Camera 12 VDC, 300 mA, 3.6 W		
2-pair 24 AWG	1,046ft (318m)	1,424ft (434m)
2-pair 23 AWG (Cat6)	1,319ft (402m)	1,795ft (547m)
Color Camera 12 VDC, 400 mA, 4.8 W		
2-pair 24 AWG	784ft (239m)	1,068ft (325m)
2-pair 23 AWG (Cat6)	989ft (301m)	1,346ft (410m)

UTP wire should be Cat 5 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.

Camera Connections

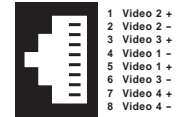
Channel 1	Channel 2	Channel 3	Channel 4
1 Video 1 +	1 Video 2 +	1 Video 3 +	1 Video 4 +
2 Video 1 -	2 Video 2 -	2 Video 3 -	2 Video 4 -
3 Data 1 +	3 Data 2 +	3 Data 3 +	3 Data 4 +
4 Power 1 -	4 Power 2 -	4 Power 3 -	4 Power 4 -
5 Power 1 +	5 Power 2 +	5 Power 3 +	5 Power 4 +
6 Data 1 -	6 Data 2 -	6 Data 3 -	6 Data 4 -
7 Power 1 +	7 Power 2 +	7 Power 3 +	7 Power 4 +
8 Power 1 -	8 Power 2 -	8 Power 3 -	8 Power 4 -

Front-Panel LEDs

Blue LED System Power On
Per-channel LED indicates:
Off No load connected
Green Load connected & working
Amber Mis-wiring detected
Red Overload shutdown condition

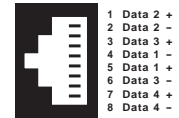
Control Room Video

UTP video signals are passed through the unit and delivered to the control / MDF room via rear-panel RJ 45 connectors:



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:



See below for additional channels

Power Input

On-off switch Rear panel
Voltage 115 / 230 VAC
Current 2.5 / 1.25 Amps
Frequency 50 / 60 Hz
Protection 5A slo-blo 8x20 mm fuse & thermal shutdown
Wattage 100 Watts
Heat 1000 BTU/hour

Environmental

Ambient Temperature 0 to +140°F (-20 to +50°C)
Minimum airflow 4 ft³/min (0.1 m³/min)
Humidity (non-condensing) 0 to 95%
Transient Immunity per ANSI 587 C62.41

Mechanical

Dimensions, including connectors
9.25in wide, 1.75 in high, 7.25 in deep
235 mm wide, 44.5mm high, 184 mm deep

Weight 7lb (3.2 kg)

Mounting Wall, or desk mount

Regulatory



Specifications subject to change without notice.

Control Room Connections

Channels 1-4	Telemetry / Data
1 Video 2 +	1 Data 2 +
2 Video 2 -	2 Data 2 -
3 Video 3 +	3 Data 3 +
4 Video 1 -	4 Data 1 -
5 Video 1 +	5 Data 1 +
6 Video 3 -	6 Data 3 -
7 Video 4 +	7 Data 4 +
8 Video 4 -	8 Data 4 -

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