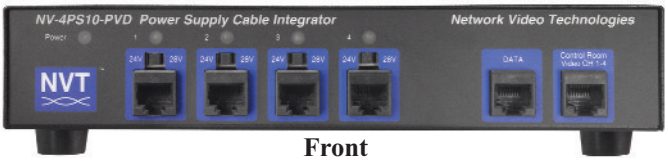
NEW!

Model NV-4PS10-PVD

Power Supply Cable Integrator Hub



Front

Rear

Features:

- Provides Class 2 SELV camera power and pass-through video and 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 28VAC 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, 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 vial standard 4-pair RJ45 EIA/TIA 568B compliant premises wiring and pinouts.

At the camera, Power, Video and Data connections are made using a PVD™ 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. P/T/Z 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.

Network Video Technologies
4005 Bohannon Drive • Menlo Park, CA 94025 • USA
(+1) 650.462.8100 • 800.959.9870 • FAX (+1) 650.326.1940
nvt.com • info@nvt.com

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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 21 VAC at the 24 VAC camera:

Fixed 24VAC Camera		NV-216A-PV
Power Supply Voltage	**24 VAC**	**28 VAC**
Minimum Voltage at Camera	**21 VAC**	**21 VAC**
B&W Camera 100 mA, 2.4 W		
2-pair 24 AWG	899ft (274m)	2,098ft (640m)
2-pair 23 AWG (Cat6)	1,134ft (346m)	2,645ft (807m)
Color Camera 200 mA, 4.8 W		
2-pair 24 AWG	450ft (137m)	1,049ft (320m)
2-pair 23 AWG (Cat6)	567ft (173m)	1,323ft (403m)
Color Camera 300 mA, 7.2 W		
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**
P/T/Z Camera 1,000 mA, 24 W		
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&W Camera 200 mA, 2.4 W		
2-pair 24 AWG	1,498ft (457m)	2,098ft (640m)
2-pair 23 AWG (Cat6)	1,889ft (576m)	2,645ft (807m)
Color Camera 400 mA, 4.8 W		
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.

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)
On-off switch	Rear panel
Voltage	115 / 230 VAC
Current	1.25 / 0.625 Amps
Frequency	50 / 60 Hz
Protection	2.5A slo-blo 8x20mm fuse and thermal shutdown
Wattage	125 Watts
Heat	(power supply only) 50 BTU/hour (power supply with cameras) 420 BTU/hour

FRONT-PANEL LEDs

Blue LED		System power on
Per-channel LED indicates:	Off	No load connected
	Green	Load connected and working
	Amber	Mis-wiring detected
	Red	Overload shutdown condition

ENVIRONMENTAL

Ambient Temperature	-4 to 122 °F (-20 to +50 °C)
Minimum airflow	4 ft^3/min (0,1m^3/min)
Humidity (non-condensing)	0 to 95%
Transient Immunity	per ANSI 587 C62.41

MECHANICAL

Dimensions	9.25in wide, 1.75in high, 7.25in deep
including connectors:	(235mm wide, 44,5mm high, 184mm deep)
Weight	7lb (3,2kg)
Mounting	Wall, or desk mount

REGULATORY

Specifications subject to change without notice.

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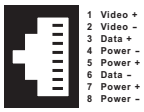
CAMERA PVD CONNECTIONS

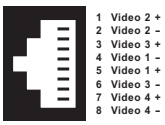
Four front-panel RJ45 outputs support up to four fixed or P/T/Z telemetry cameras over 4-pair UTP.



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 -

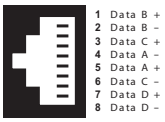
CONTROL ROOM VIDEO

UTP video signals are passed through the unit and delivered to the control/MDF room via rear-panel RJ45 connectors.

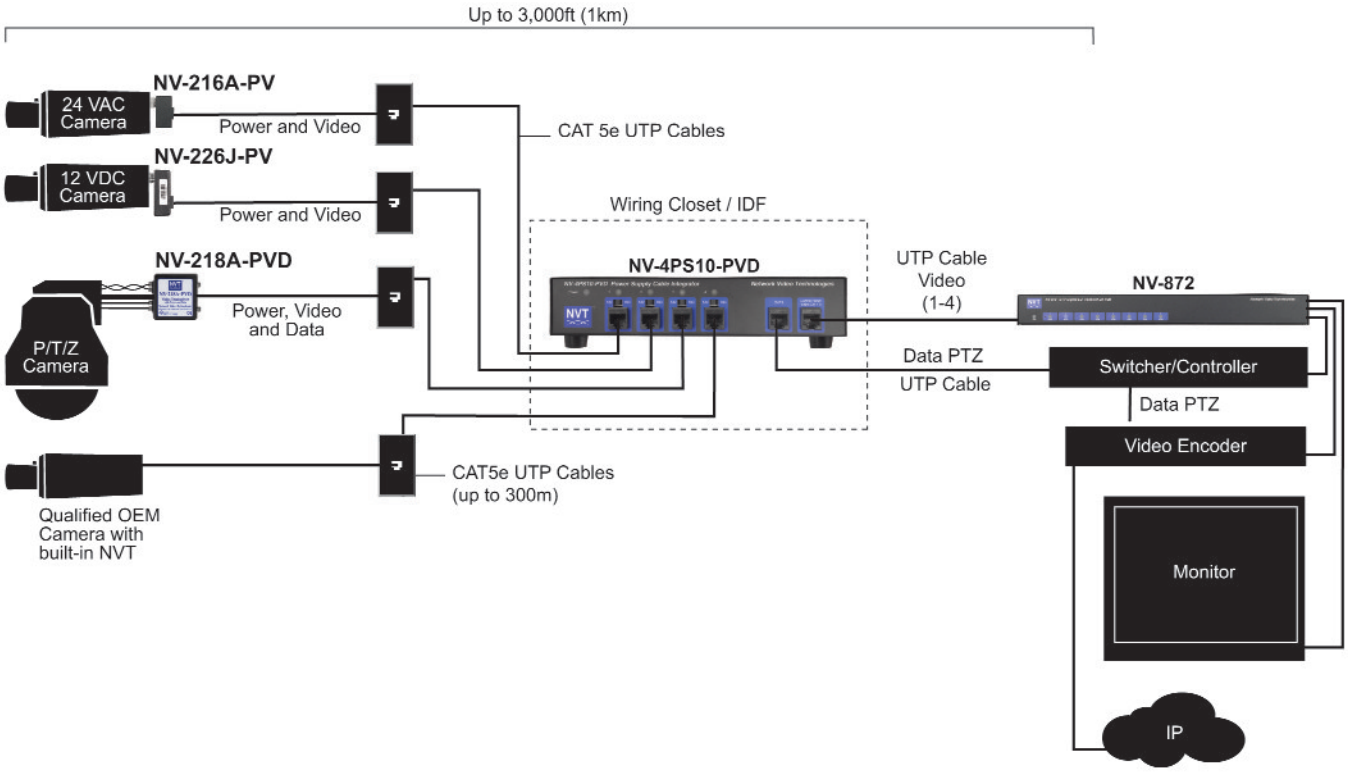


CONTROL ROOM DATA

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.



Typical Application



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