



Model NV-226J-PV UTP Video Transmitter 12VDC Converter



Features:

- ▶ Extended distance camera power and video routed through UTP and RJ45
- ▶ Use with NVT's PVD™ Power Supply Hubs and Cable Integrators
- ▶ Up to 3000ft (1Km) with NVT's Active Receiver Hubs (see distance chart)
- ▶ Up to 750ft (225m) with NVT's Passive Receiver Hubs
- ▶ Exceptional interference rejection
- ▶ Built-in transient protection
- ▶ Limited lifetime warranty

The NVT Model NV-226J-PV Video Transmitter 12VDC Converter is a passive (non-amplified) video transmitter combined with a 24/28VAC to 12VDC converter. Designed to fit on the back of a fixed 12 VDC camera, this unit is designed to convert 24/28VAC power from the control room, while delivering real-time baseband (composite) video at extended distances, all over one 4-pair UTP cable.

The unparalleled interference rejection and low emissions of the NV-226J-PV allows video and low-voltage power to coexist within the same 4-pair cable, using structured (EIA 568B) wiring practices.

As with all NVT products, the NV-226J-PV carries a limited lifetime warranty, is UL and cUL listed, and is CE, WEEE, and RoHS compliant.

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Technical Specifications

Video

Frequency response	DC to 5 MHz
Attenuation	0.5 dB typ
Common-mode / Differential-mode rejection 50 KHz to 5 MHz	60 dB typ
Impedance	
Coax, male BNC	75 ohms
UTP, RJ45 Data Connector	100 ohms

Mechanical

Body height	2.25 inches (57mm)
Body width	1.52 inches (39mm)
Body depth (not including connectors)	.81 inches (20.5mm)
Weight	1.8 oz (50 g)

Environmental

Temperature	-20 to +75°C
Humidity (non-condensing)	0 to 95%
Transient Immunity	per ANSI / IEEE 587 C62.41

Camera power

Input voltage	13 to 30 VAC/DC
Input current	1 A max, Class II SELV
Output voltage	12VDC, regulated
Output current	400 mA max

Regulatory



Wire Distance

Maximum wire distance is dependant on the power supply's voltage, wire gauge, and camera wattage:

Power Supply Voltage	24 VAC	28 VAC
B&W Camera 12VDC, 100 mA, 1.2 W		
2-pair 24 AWG	3,000 ft	3,000 ft
2-pair 23 AWG (Cat 6)	3,000 ft	3,000 ft
Color Camera 12VDC, 200 mA, 2.4 W		
2-pair 24 AWG	1,569 ft	2,136 ft
2-pair 23 AWG (Cat 6)	1,978 ft	2,693 ft
Color Camera 12VDC, 300 mA, 3.6 W		
2-pair 24 AWG	1,046 ft	1,424 ft
2-pair 23 AWG (Cat 6)	1,319 ft	1,795 ft
Color Camera 12VDC, 500 mA, 4.8 W		
2-pair 24 AWG	784 ft	1,068 ft
2-pair 23 AWG (Cat 6)	989 ft	1,346 ft

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 in the same jacketed wire bundle with other telecom or datacom.

RJ45 pinouts

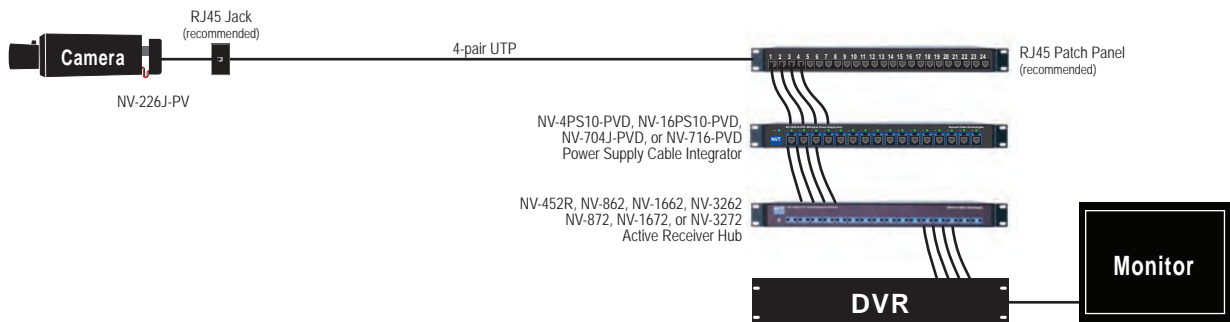


- 1 Video
- 2 Power
- 3 Power
- 4 Power
- 5 Power
- 6 Power
- 7 Power
- 8 Power

Wire Type

Network Wiring	One Unshielded Twisted Pair 24-16 AWG (0.5-1.31 mm)
Category Type	2 or better
Impedance	100 ± 20 ohms
DC Loop Resistance (24 AWG)	52 ohms per 1,000 ft (18 ohms per 100 m)
Differential Capacitance	19 pF/ft max (62 pF/m max)

Specifications subject to change without notice.



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