



## Model NV-704J-PVD

### Cable Integrator



### Features:

- Connectivity for up to four cameras, each via a single RJ45 4-pair cable
- Use with the NV-216A-PV, NV-218A-PVD, or NV-226J-PV transceiver at the camera
- Uses any third-party power supply to power cameras via UTP over significant distances (see Power Distance Chart)
- Cable-management solution from the camera to the Wiring Closet and on to the Control Room
- Wall-mountable; rack-mountable using the NV-RM8/10 panel
- Limited lifetime warranty

Typically installed in the Wiring Closet or IDF room, the NV-704J-PVD is a passive “pass-through” wiring device that efficiently consolidates camera power, video, and pan/tilt/zoom telemetry data onto a minimum of 4-pair RJ45 cables.

Power, video and data are converted at the camera using a PVD™ transceiver which utilizes a single 4-pair cable with RJ45 connectors to deliver each camera's signals to the NV-704J-PVD. Up to four cameras are supported. The NV-704J-PVD receives low-voltage camera power from any third-party Class 2 power supply. Control Room video connections are achieved with a single 4-pair RJ45 cable. P/T/Z telemetry data, if required, passes through a second 4-pair RJ45 cable and delivers P/T/Z telemetry. Control Room connections may be made using any multi-channel NVT receiver or hub. All equipment employs industry-standard EIA/TIA 568B pinouts.

### 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 21 VAC at the 24 VAC camera:

Fixed 24VAC Camera		NV-216A-PV	
<b>Power Supply Voltage</b>	<b>24 VAC</b>	<b>28 VAC</b>	
<b>Minimum Voltage at Camera</b>	<b>21 VAC</b>	<b>21 VAC</b>	
<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	
<b>Power Supply Voltage</b>	<b>24 VAC</b>	<b>28 VAC</b>	
<b>Minimum Voltage at Camera</b>	<b>21 VAC</b>	<b>21 VAC</b>	
<b>P/T/Z Camera 1,000 mA, 24 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	
<b>Power Supply Voltage</b>	<b>24 VAC</b>	<b>28 VAC</b>	
<b>Minimum Voltage at Camera</b>	<b>11.5 VDC</b>	<b>11.5 VDC</b>	
<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.

#### CONTROL

UTP, RJ45 Connectors 100 ohms

#### ENVIRONMENTAL

Temperature -22 to +167 °F (-30 to +75 °C)  
Humidity (non-condensing) 0 to 95%

#### VIDEO

UTP, RJ45 Connectors 100 ohms

#### POWER

16 to 24AWG (0.5mm to 1.3mm)

#### MECHANICAL

Dimensions, excluding brackets and connectors  
7.3in x 2.35in x 1.65in (184mm x 60mm x 41mm)

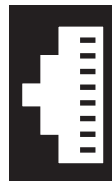
Weight 0.6lb (0.32kg)

Material Black ABS

Mounting Two 0.175in (4,4mm diameter holes)  
6.75in (171,5mm) apart

Two NV-704J-PVDs can be mounted to an NV-RM 8/10 Rackmount Panel

#### RJ45 Camera Pinouts and UTP Color Code



1 + Video	White/Orange
2 - Video	Orange/White
3 + Data	White/Green
4 - Power	Blue/White
5 + Power	White/Blue
6 - Data	Green/White
7 + Power	White/Brown
8 - Power	Brown/White

Specifications subject to change without notice.

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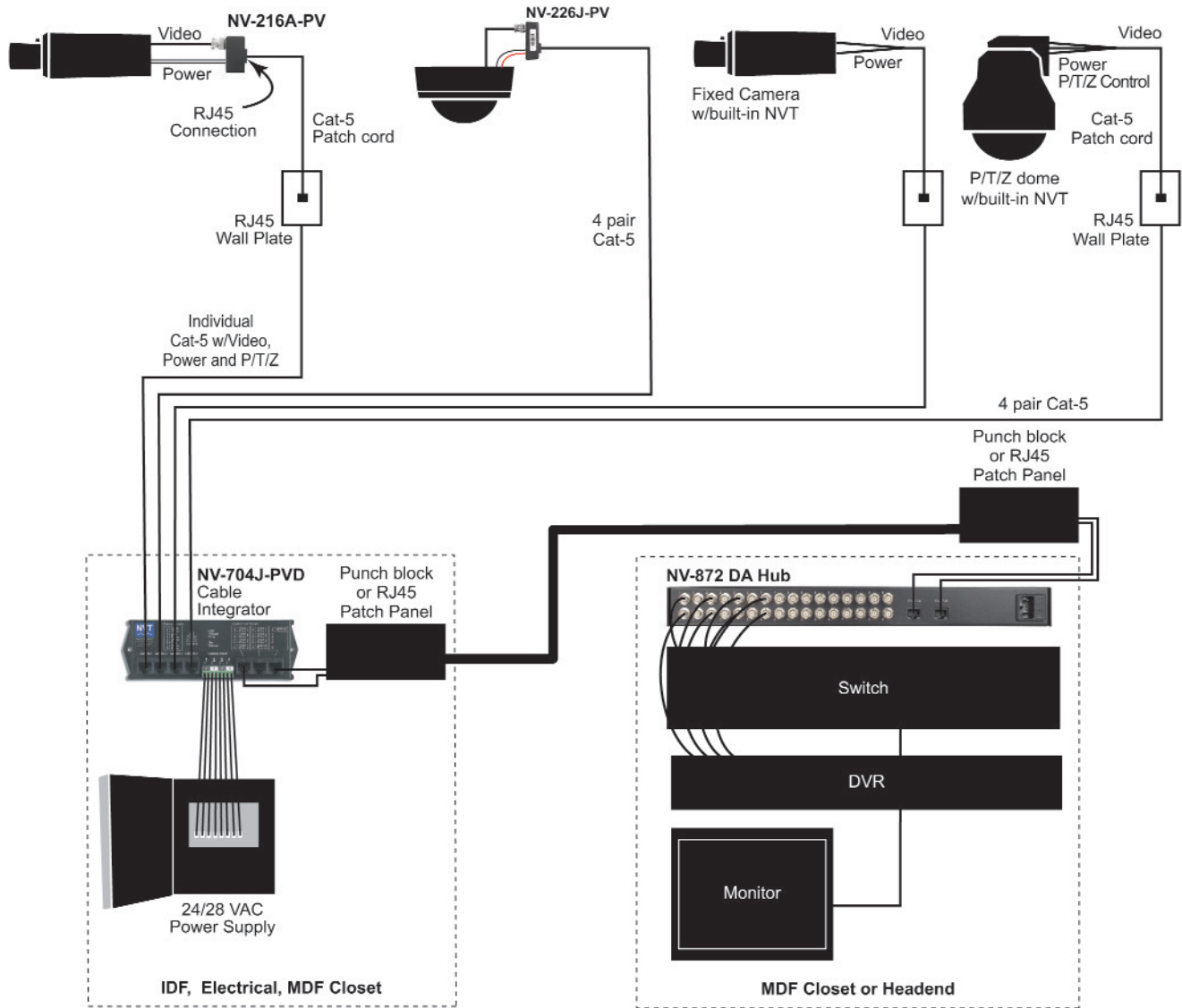
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### Typical Application



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