



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

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



Model NV-704J-PVD

Cable Integrator

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.

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)

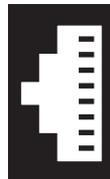
Material Black ABS

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.

Network Video Technologies

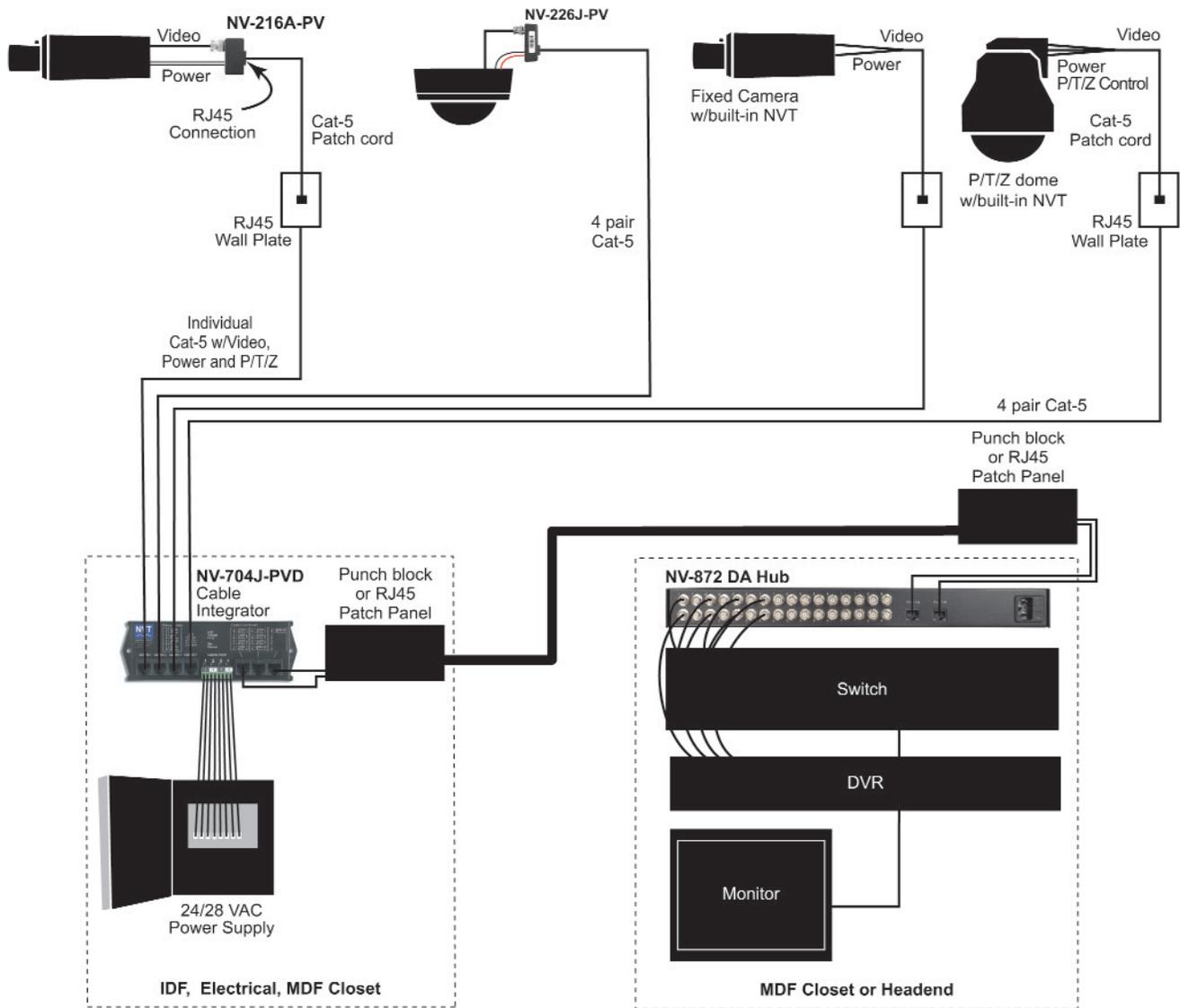
4005 Bohannon Drive • Menlo Park, CA 94025 • USA
(+1) 650.462.8100 • 800.959.9870 • FAX (+1) 650.326.1940
nvt.com • info@nvt.com



Model NV-704J-PVD

Cable Integrator

Typical Application



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

Copyright © 2008 NVT, Inc.
411-704-1-F