



Quality video over ordinary telephone wire...®

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-218A-PVD power-video-data 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

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 data onto a minimum of 4-pair RJ45 cables.

Power, video and data are converted at the camera using the NV-218A-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 connections are achieved with a single 4-pair RJ45 cable (Exception: Two cables are required when all four cameras are in use and one or more require data.) Control Room connections may be made using the NV-413A, NV-452R, NV-813J, NV-862J, NV-1613J, NV-1662J, NV-3213J or NV-3262J. All equipment employs industry-standard EIA/TIA 568B pinouts.

Network Video Technologies

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Technical Specifications

Video

UTP, RJ45 Connectors 100 ohms

Power

16 to 24AWG (0.5mm to 1.3mm)

Environmental

Temperature -20 to +75°C
Humidity (non-condensing) 0 to 95%

Mechanical

Dimensions, including connectors
7.3 x 2.35 x 1.65in (184 x 60 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

Specifications subject to change without notice.

Powering Your Camera Using UTP and NVT

Power Supply Voltage	24 VAC	28 VAC	12 VDC
Resultant Camera Voltage	21 VAC	21 VAC	11.5 VDC
100 mA B&W Camera			
Dual 24 AWG	1,000 ft	2,500 ft	175 ft
Dual 22 AWG	1,500 ft	4,000 ft	300 ft
300 mA Color Camera			
Dual 24 AWG	350 ft	850 ft	50 ft
Dual 22 AWG	600 ft	1,400 ft	100 ft
1 Amp P/T/Z Camera			
Dual 24 AWG	100 ft	250 ft	15 ft
Dual 22 AWG	150 ft	400 ft	30 ft

Notes: Wire should be Category UTP cable Low-voltage camera power, Video and RS-422 or RS-485 may be sent within the same wire bundle. Do not run 24 VAC or 28 VAC in the same wire bundle with other telecom or datacom signals.

Control

UTP, RJ45 Connectors 100 ohms

RJ45

Camera Pinouts & 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

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