



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 utilises 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-862J, NV-1662J, or NV-3262J. All equipment employs industry-standard EIA/TIA 568B pinouts.

Network Video Technologies

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



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Technical Specifications

Video

UTP, RJ45 Connectors 100 ohms

Power

0.5mm to 1.3mm (16 to 24AWG) CO

Environmental

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

Mechanical

Dimensions, including connectors 184 x 60 x 41mm (7.3 x 2.35 x 1.65in)
Weight 0.32kg (0.6lb)
Material Black ABS
Mounting Two 4,4mm (0.175in) diameter holes
171,5mm (6.75in) 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 |
|-----------------------------|--------|--------|----------|
| | 21VAC | 21VAC | 11.5 VDC |
| 100mA B&W Camera | | | |
| 24AWG (0.5 mm) | 300 m | 760 m | 50 m |
| 22AWG (0.6 mm) | 460 m | 1200 m | 90 m |
| 300mA Color Camera | | | |
| 24AWG (0.5 mm) | 107 m | 260 m | 15 m |
| 22AWG (0.6 mm) | 180 m | 425 m | 30 m |
| 1 Amp P/T/Z Camera | | | |
| 24AWG (0.5 mm) | 30 m | 75 m | 4 m |
| 22AWG (0.6 mm) | 45 m | 120 m | 9 m |

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 Colour 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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