



*Quality video over ordinary telephone wire...<sup>®</sup>*

## Model NV-716J-PVD Cable Integrator Hub



### Features:

- ▶ **Connectivity for up to sixteen 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**
- ▶ **1U high; 1" deep; wall or rack-mountable**

Typically installed in the wiring closet or IDF room, the NV-716J-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-716J-PVD. Up to sixteen cameras are supported. The NV-716J-PVD receives low-voltage camera power from any third-party multi-output Class 2 power supply. Control Room connections are achieved with a single 4-pair RJ45 cable for each group of four cameras. Data, if required, passes through another 4-pair RJ45 cable. 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

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# Model NV-716J-PVD Cable Integrator

## Technical Specifications

### Video

UTP, RJ45 Connectors 100 ohms

### Power

0.5mm to 1.3mm (16 to 24AWG)

### Control

UTP, RJ45 Connectors 100 ohms

### Powering Your Camera Using UTP and NVT

Power Supply Voltage	24 VAC	28 VAC	12 VDC
	21VAC	21VAC	11.5 VDC
<b>100mA B&amp;W Camera</b>			
24AWG (0.5 mm)	300 m	760 m	50 m
22AWG (0.6 mm)	460 m	1200m	90 m
<b>300mA Color Camera</b>			
24AWG (0.5 mm)	107 m	260m	15m
22AWG (0.6 mm)	180 m	425 m	30 m
<b>1 Amp P/T/Z Camera</b>			
24AWG (0.5 mm)	30 m	75 m	4 m
22AWG (0.6 mm)	45 m	120 m	9 m

### Environmental

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

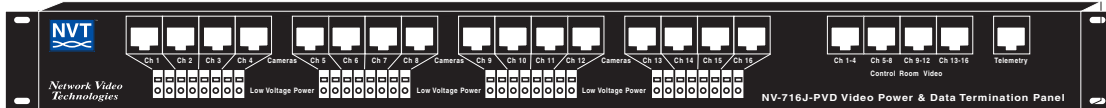
### Mechanical

Dimensions, including connectors  
482mm wide, 44mm high, 21mm deep  
19in wide, 1.73in high, .8in deep  
Weight 0.43kg (0.94lb)  
Mounting Rack mount

**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.

Specifications subject to change without notice.

## NV-716J-PVD Wiring Diagram



### Camera Connections

Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
1 Video 1 +	1 Video 2 +	1 Video 3 +	1 Video 4 +	1 Video 5 +	1 Video 6 +	1 Video 7 +	1 Video 8 +
2 Video 1 -	2 Video 2 -	2 Video 3 -	2 Video 4 -	2 Video 5 -	2 Video 6 -	2 Video 7 -	2 Video 8 -
3 Data A +	3 Data A +	3 Data A +	3 Data A +	3 Data B +	3 Data B +	3 Data B +	3 Data B +
4 Power 1 -	4 Power 2 -	4 Power 3 -	4 Power 4 -	4 Power 5 -	4 Power 6 -	4 Power 7 -	4 Power 8 -
5 Power 1 +	5 Power 2 +	5 Power 3 +	5 Power 4 +	5 Power 5 +	5 Power 6 +	5 Power 7 +	5 Power 8 +
6 Data A -	6 Data A -	6 Data A -	6 Data A -	6 Data B -	6 Data B -	6 Data B -	6 Data B -
7 Power 1 +	7 Power 2 +	7 Power 3 +	7 Power 4 +	7 Power 5 +	7 Power 6 +	7 Power 7 +	7 Power 8 +
8 Power 1 -	8 Power 2 -	8 Power 3 -	8 Power 4 -	8 Power 5 -	8 Power 6 -	8 Power 7 -	8 Power 8 -
Channel 9	Channel 10	Channel 11	Channel 12	Channel 13	Channel 14	Channel 15	Channel 16
1 Video 9 +	1 Video 10 +	1 Video 11 +	1 Video 12 +	1 Video 13 +	1 Video 14 +	1 Video 15 +	1 Video 16 +
2 Video 9 -	2 Video 10 -	2 Video 11 -	2 Video 12 -	2 Video 13 -	2 Video 14 -	2 Video 15 -	2 Video 16 -
3 Data C +	3 Data C +	3 Data C +	3 Data C +	3 Data D +	3 Data D +	3 Data D +	3 Data D +
4 Power 9 -	4 Power 10 -	4 Power 11 -	4 Power 12 -	4 Power 13 -	4 Power 14 -	4 Power 15 -	4 Power 16 -
5 Power 9 +	5 Power 10 +	5 Power 11 +	5 Power 12 +	5 Power 13 +	5 Power 14 +	5 Power 15 +	5 Power 16 +
6 Data C -	6 Data C -	6 Data C -	6 Data C -	6 Data D -	6 Data D -	6 Data D -	6 Data D -
7 Power 9 +	7 Power 10 +	7 Power 11 +	7 Power 12 +	7 Power 13 +	7 Power 14 +	7 Power 15 +	7 Power 16 +
8 Power 9 -	8 Power 10 -	8 Power 11 -	8 Power 12 -	8 Power 13 -	8 Power 14 -	8 Power 15 -	8 Power 16 -

### Control Room Connections

Channels 1-4	Channels 5-8	Channels 9-12	Channels 13-16	Telemetry
1 Video 2 +	1 Video 6 +	1 Video 10 +	1 Video 14 +	1 Data B +
2 Video 2 -	2 Video 6 -	2 Video 10 -	2 Video 14 -	2 Data B -
3 Video 3 +	3 Video 7 +	3 Video 11 +	3 Video 15 +	3 Data C +
4 Video 1 -	4 Video 5 -	4 Video 9 -	4 Video 13 -	4 Data A -
5 Video 1 +	5 Video 5 +	5 Video 9 +	5 Video 13 +	5 Data A +
6 Video 3 -	6 Video 7 -	6 Video 11 -	6 Video 15 -	6 Data C -
7 Video 4 +	7 Video 8 +	7 Video 12 +	7 Video 16 +	7 Data D +
8 Video 4 -	8 Video 8 -	8 Video 12 -	8 Video 16 -	8 Data D -

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