Model PV824

POWER and VIDEO DISTRIBUTOR FOR UTP and STP CATEGORY CABLES

Note: This installation should be made by a qualified service person and conform with local codes.
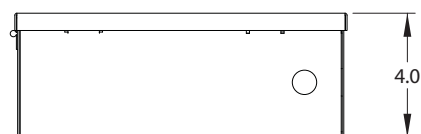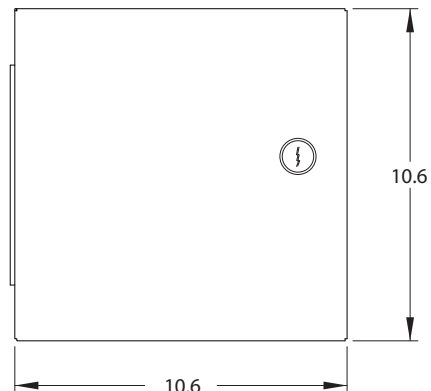
⚠️ Reduce risk of fire or electrical shock. Do not expose this product to rain or moisture.

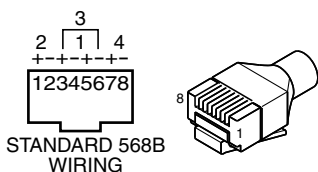## Specifications

Power Input: 115VAC 50/60 Hz, 1 Amp
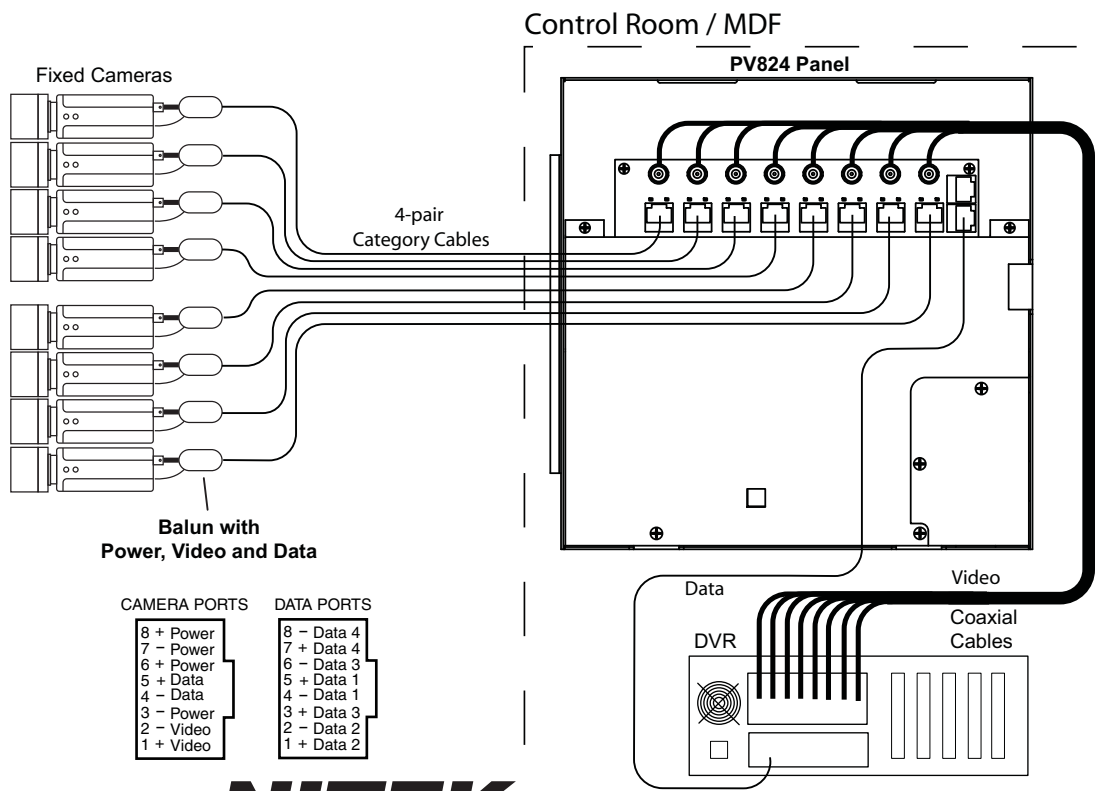**Power Output:**

Size:

Typical Installation

The PV824 is designed using RJ45 connectors. Cable terminations are 568B. The diagram below shows a common installation and the hook ups for each connector. Pin assignments are shown in the table below.

STANDARD 568B WIRING

PIN	Color Code
1	WHT/ORG
2	ORG/WHT
3	WHT/GRN
4	BLU/WHT
5	WHT/BLU
6	GRN/WHT
7	WHT/BRN
8	BRN/WHT

Fixed Cameras

4-pair Category Cables

Balun with Power, Video and Data

Control Room / MDF

PV824 Panel

Data   Video

DVR   Coaxial Cables

CAMERA PORTS
8 + Power
7 − Power
6 + Power
5 + Data
4 − Data
3 − Power
2 − Video
1 + Video

DATA PORTS
8 − Data 4
7 + Data 4
6 − Data 3
5 + Data 1
4 − Data 1
3 + Data 3
2 − Data 2
1 + Data 2

NITEK ®

INSTALLATION

Connecting the PV824 Base Unit

1. Mount the unit in a secure location keeping in mind that your primary power must be routed in through one of the knockouts in the lower right corner. Remove the protective cover for the primary wiring. Make the needed primary wiring hook ups and replace the protective cover. Do not power up the unit until all needed connections are made.
2. Connect wires leading to cameras using 568B wiring. A table of the connections and a 568B wiring chart are shown on the previous page.
3. Connect a RG59 coaxial cable from the BNC jack to your DVR or other viewing device.
4. A data connection is provided for each camera port. The data path is a straight through connection for each camera run and may be used for any number of signal types including PTZ control, audio, contact closure, etc.
5. Power up the PV824 base unit. A red power LED is provided for each camera. When video is present a green LED will light for the particular port. The green LED indicates video is returning from the camera.

Connecting the Video, Power and Data at the Camera End

1. The PV824 supports a video, power and data connection. These wire pairs can be independently connected to a UTP ready video camera or to a Nitek balun with power, video and data connections.
2. Power to the PV824 base unit should be off when making camera connections. Connection should be wired for 568B. A chart of connections and 568B wiring is provided on the previous page.

Troubleshooting

NO POWER LED - A red power LED is provided for each camera. If the power LED is not on for a particular port, reset the power to the PV824. If the power LED remains off remove the camera connection from that port and reset power to the PV824. With no load on the port the LED should light, this would indicate a problem with the camera wire run or the camera itself.

NO VIDEO LED - A green LED is provided to indicate that video is being received at the PV824 unit. If the video LED is off but the power LED is on then there could be a problem with the camera or the video wiring. Try moving a working camera to the port in question to confirm that the port is working correctly.