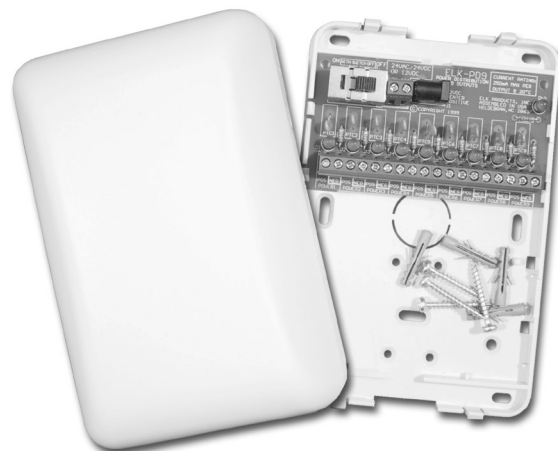


# Power Distribution Module

## ELK-PD9

The Power Distribution Module conveniently converts a single A.C. or D.C. input into nine individual outputs to centrally power Video Cameras, PIRs, Photobeams, etc. Each output is protected with 250mA auto-resetting PTCs to protect any shorted output from disabling the other outputs. The module has visual LED power indicators on each output and a Master Power On/Off Switch with LED on the input. The module requires a 6 to 30 Volt A.C. or D.C. power source (not included) which connects either to a terminal block or a 2.1mm D.C. power jack located on the module. Outputs can be combined for more current.



## Features

- Auto-Resetting (PTC) Overload Protection (NO FUSES to REPLACE).
- Master Power On/Off Switch.
- Visual LED Power Indicators on Input and each Output.
- Convenient Test Points for measuring Total Current Draw.
- Lifetime Limited Warranty.
- Paintable White Plastic

## Specifications

- Max Current Draw: 250mA from each output.
- Max Combined Current Draw: Not to Exceed Input Power Source or 2.3A.
- Input/Output Voltage: 6 to 30 Volts A.C. or D.C.
- Input Connection: Screw Terminals or 2.1mm Plug-In D.C. Jack.
- Output Connection: Screw Terminals (POS and NEG) for each Output.
- Enclosure Size: 6.5" x 4.3" x 2".

## Kit Part Numbers

PD9AC24 AC Camera Kit: Includes ELK-PD9 + ELK-TRG2440 24V AC, 40VA Transformer.

PD9DC12 DC Camera Kit: Includes ELK-PD9 + ELK-P1216 12V DC, 1.5A Plug-in Power Supply.

# Instructions

# ELK-PD9

1. To remove the cover from the Power Distribution Module (ELK-PD9), use a small object like a screw driver to press into the slots located on the end of the cover. Insure that the power switch is off.
2. Using Table 1 or Table 2 below, select an A.C. or D.C. Power Source that provides enough current to power the number of devices to be used. The Power Source voltage must also match the device's voltage requirements. Mount the Power Distribution Module near the Power Source that will be used to power the devices.
3. Connect the Power Source to the Power Distribution Module via the Input Power Terminals or the 2.1mm D.C. jack(J1) located to the right of the terminals.
4. Connect a two conductor cable from the Power Distribution Module's Output terminals to the devices to be powered. If desired, the total current draw can be measured at the Master Power Switch using an Ammeter while the switch is off. (figure 2)
5. Turn the Master Power Switch on, ensure all leds are on.
6. Replace the plastic cover on the Power Distribution Module.

**Table 1: Sizing the Power Supply**

Calculate the total combined power consumption of all devices. Select a Power Supply which has a Max. Available Power capacity that meets or exceeds the calculated total.

| Model #   | Voltage Output | Max. Available Power |            |
|-----------|----------------|----------------------|------------|
|           |                | Amps                 | VA / Watts |
| ELK-624   | 12 VDC         | 1 A                  | 12         |
| ELK-P1216 | 12 VDC         | 1.5A                 | 20         |

**Table 2: Quick Power Supply Selection by Number of Devices**

Select a column that closely approximates the power consumption of each device. For the desired voltage, select the row that meets or exceeds the number of desired devices. The appropriate Power Supply Model # is shown at left. NOTE: If a device consumes more than the max. rating of a single PD9 output (250 mA), then parallel two or more outputs together to achieve the desired capacity. Use additional PD-9's for every 9 devices or as required.

| @225mA<br>(2.7W) | @200mA<br>(2.4W) | @175mA<br>(2.1W) | @150mA<br>(1.8W) | @125mA<br>(1.5W) | @100mA<br>(1.2W) | @75mA<br>(.9W) |
|------------------|------------------|------------------|------------------|------------------|------------------|----------------|
| 4                | 5                | 5                | 6                | 8                | 10               | 13             |
| 6                | 7                | 8                | 10               | 12               | 15               | 20             |

| Model #               | Voltage Output | Max. Available Power |            |
|-----------------------|----------------|----------------------|------------|
|                       |                | Current              | VA / Watts |
| ELK-624               | 24 VDC         | .8A                  | 19         |
| ELK-T2440 Transformer | 24 VAC         | 1.7A                 | 40         |

| @225mA<br>(5.4W) | @200mA<br>(4.8W) | @175mA<br>(4.2W) | @150mA<br>(3.6W) | @125mA<br>(3W) | @100mA<br>(2.4W) | @75mA<br>(1.8W) |
|------------------|------------------|------------------|------------------|----------------|------------------|-----------------|
| 3                | 4                | 4                | 5                | 6              | 8                | 10              |
| 7                | 8                | 9                | 10               | 12             | 17               | 21              |

**Figure 2: Power Distribution Module(ELK-PD9)**

