

Cable and Power Guidelines and Limitations

Proper Current Needed for Power Supplies for Cameras

This chart shows the proper current needed for power supplies for cameras.

Use class 2 power only.

Output Voltage must be 12V DC or 24V AC depending on the camera style being used.

(Some cameras can tolerate fluctuations up to 20%± but most cameras can only tolerate fluctuations up to 10%±.)

Voltage	Current	Power
12V DC	350mA	4.2W
24V AC	202mA	4.8W

Power Cable Maximum Length

This chart gives the power cable maximum length (feet) based off of voltage and total load being used.



Total Load	Power Supply	24 AWG	22 AWG	18 AWG	16 AWG
4.2W	12V DC	55	88	223	355
4.8W	24V AC	867	1380	3488	5547

Coax Cable Maximum Length

Type of Coax Cable	Coax Cable Length (Feet)
RG59U	600 ft.
RG6U	1200 ft.

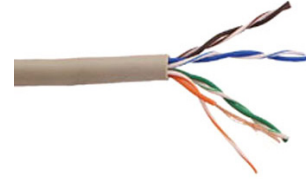


If you use Siamese cable (RG59U coax and 18 AWG power wire) the 12V DC cameras will be limited by 223 ft. due to voltage drop, and the 24V AC cameras will be limited by whichever type of coax is being used.



Cable Distances with Baluns

If you have chosen to use data cable (Cat5e) to run your video you will have to use a converter called a balun to change the coax video signal into screw terminals for bare wire connection of the data cable



This chart shows the cable distances you can expect when running unpowered and powered baluns for color and B&W cameras.



Type of Balun	Cable Distance (Feet)
Unpowered Balun	700 ft. B & W Cameras 600 ft. Color Cameras
Powered Balun	3500 ft. up to 3 miles or greater for both B&W and color