



Passive Video/Power Lead Balun – RJ45

Model: VPB110RJK = VPB110RJM + VPB110RJF as a Kit

VPB110RJM = Male Only

VPB110RJF = Female Only



**VPB110RJM - Male
For Camera Side**



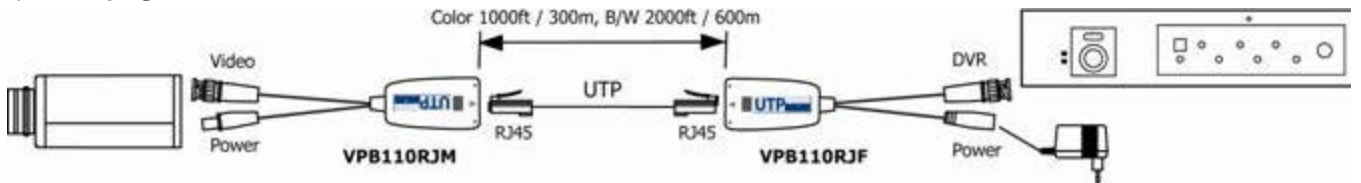
**VPB110RJF - Female
For Using Single Power Adaptor**

Features:

- Use an Unshielded Twisted Pair cable (UTP) to transmit full motion camera video signal in color 1000ft / 300m and in B/W up to 2000ft / 600m.
- No power required for video balun
- **Surge / Lightning Protection**
10/700 μ s Pulses: 2kV
Standard: IEC61000-4-5
- **ESD : Electrostatic Discharge Protection**
Contact Discharge: 6kV / Air Discharge: 8kV
Standard: IEC61000-4-2
- **Wave / Interference Rejection & Noise Filter**
Built-in Filter: 0~6HMz with Extra Interference Rejection <60db
- DC Power Lead: 12V~24V DC

Application Diagram:

The distance shown is for passive video balun signal only. Refer to the following table for Voltage Drop VPB110RJK



Panel View:



Pin	T568B Pair	T568B	Cha
1	2	White/Orange Stripe	Vi
2	2	Orange Solid	Vi
3	3	White/Green Stripe	Pc
4	1	Blue Solid	Pc
5	1	White/Blue Stripe	Pc

burning the camera.

6	3	Green Solid	Po
7	4	White/Brown Stripe	Po
8	4	Brown Solid	Po

Specification:

Model Number		VPB110RJK
Video Input / Output		BNC male cable & DC male/female to RJ45 modular jack
Surge / Lightning Protections	Video Output Protection	2kV (common mode), 10/700µs IEC61000-4-2
	Video Input Protection	2kV (different mode), 2kV (common mode) IEC61000-4-2
	Video Input Protection for Over Current	100mA
Electrostatic Discharge Protection (ESD)		Contact Discharge: 6kV / Air Discharge: 8kV Standard: IEC61000-4-2
Wave / Interference Rejection & Noise Filter Protection		Built-in Filter: 0~6HMz with Extra Interference Rejection <60db
Video Signal		1V p-p, 75 Ohms
Transmission Distance		Color 1000ft / 300m / B/W 2000ft / 600m
Cable		UTP / Twisted Pair CAT5 (AWG24)
DC Power Lead		12V~24V DC

*Specifications are subject to change without notice.

Voltage Drop According to Cable Length (24AWG):

Transmission Distance	Transmission Voltage (12V DC, 0.5A)	Transmission Voltage (12V DC, 1A)	Transmission Voltage (12V DC, 1.5A)
160ft / 50m	13.5V	15.5V	17.0V
320ft / 100m	15.5V	18.5V	22.0V
500ft / 150m	17.0V	22.0V	27.0V
650ft / 200m	18.5V	25.5V	32.0V



A-3C, A-3d, A

UTP Balun Cabling Systems and Solutions provides an answer for all your cabling needs. Our complete line of baluns allows you to easily extend your current audio/video/data system up to 1200ft and even up to 8000ft, with an active balun.

UTP Baluns are perfectly suited for applications such as these:
 CCTV Security Systems – Video Balun, CCTV Balun
 CCTV Surveillance Systems – Video Balun, CCTV Balun
 CCTV Camera – Video Balun, CCTV Balun
 Home Theatre – DVI & HDMI Balun

LCD/CRT Monitors – VGA PC Balun, VGA Extender, and VGA Distributor
Televisions – DVI & HDMI
VGA Monitors – CCTV Balun, VGA Balun, VGA PC Balun, VGA Extender, and VGA Distributor
DVD Players – DVI & HDMI Balun
PCs (Personal Computers) – VGA Monitor, Keyboard, & Mouse Long Range CAT5E Extender
Laptops/Notebooks – VGA Monitor, Keyboard, & Mouse Long Range CAT5E Extender
USB and PS/2 Devices – VGA Monitor, Keyboard, & Mouse Long Range CAT5E Extender
UTP (Unshielded Twisted Pair Cable) – Cat5E, Cat6 for Extender Balun
BNC (Coaxial Cable) – Video Signal Filter.

How does a balun work?

Baluns are used to convert between “Balanced and Unbalanced” electrical signals.

Baluns work by transforming the original unbalanced (video/power/data/etc.) signal to a balanced frequency used by a different cable, like CAT5 UTP. Not only does this reduce interference, but it also allows you to transmit a signal much longer than the original application would allow. Baluns are always utilized in pairs. One balun is needed to convert the original signal to a new frequency, and another balun is used at the other end to revert to the original frequency.

“Passive” Video Baluns do not require power, and can extend a signal up to 2000ft (B/W).

“Active” Video Baluns require power, but can extend a signal up to 8000ft (B/W).