

Passive Video Balun with Power Connector

Model: VPB110TK = VPB110TM + VPB110TF as a Kit

VPB110TM = Male Only VPB110TF = Female Only

Features:

 Uses an Unshielded Twisted Pair cable (UTP), like CAT5, to transmit full motion camera video signal in Color up to 300 m / 1000 ft and in B/W up to 600 m / 2000 ft.

No power required for video balun.

 Surge / Lightning Protection 10/700 µs 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

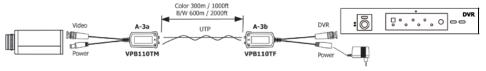




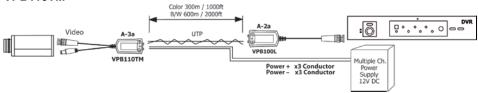
Application Diagram

The distance shown is for video signal only. Refer to back page for Voltage Drop List.

VPB110TK



VPB110TM



Wiring Diagram



Power + x3 Conductors Power - x3 Conductors

Video + x1 Conductor Video - x 1 Conductor

CAT5e is 24 Gauge for each Conductor. If you put 3 Conductors together, it will be Similar to 18~20 Gauge. This will be less for the Power Drop.

Package Contents

- 1. One (1) Passive Video Balun with Power Lead Male Power Connector
- 2. One (1) Passive Video Balun with Power Lead with Female Power Connector
- 3. One (1) User Manual





Caution:

- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.

Specification

VPB110TK Kit Model VPB110TM Male VPB110TF **Female** Video Input / Output BNC male cable & DC male/female to RJ45 modular jack Video Output 2kV (common mode), 10/700µs Protection Standard: IEC61000-4-2 2kV (different mode), 2kV (common mode) Surge / Video Input Standard: IEC61000-4-2 Lightning Protection Protections Video Input Protection for 100mA Over Current **Electrostatic Discharge** Contact Discharge: 6kV / Air Discharge: 8kV Protection (ESD) Standard: IEC61000-4-2 Wave / Interference Built-in Filter: 0~6HMz with Extra Interference Rejection Rejection & Noise Filter <60db Protection Video Signal 1V p-p, 75 Ohms **Transmission Distance** Color 300 m / 1000 ft B/W 600 m / 2000 ft Cable **UTP** / Twisted Pair CAT5 (AWG24) DC Power Lead 12V~24V DC Dimensions 214 x 25 x 24 mm / 8.43 x 0.98 x 0.94 inches Physical LxWxH **Properties** Weight 42.5 g / 1.5 oz 42.5 g / 1.5 oz

*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)
50 m / 160 ft	13.5V	15.5V	17.0V
100 m / 320 ft	15.5V	18.5V	22.0V
150 m / 500 ft	17.0V	22.0V	27.0V
200 m / 650 ft	18.5V	25.5V	32.0V

Limited Warranty ...

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation. The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.



Why Us? Quality

A. Passive Video Balun Comparison with Our Competitors



Most of our competitors do not have all multiple protections with Lifetime Warranty

We build all our CCTV video baluns through technologies to protect them with:

Surge/Lightning Protection 10/700 us Pulses: 2KV Standard E06100-4-5

ESD: Electrostatic Discharge ProtectionContact Discharge: Up to 6KV
Air Discharge: Up to 8KV Standard: IE061000-4-2

Wave/Interference Rejection & Noise Filter Built-in Filter: 0~6MHz with Extra Interference Rejection <60db

B. Even a Small Part Makes a Big Difference!

We care for every small part & we learn from the mistakes we make!

Even a BNC connector can make a BIG difference.

All our BNC connectors have passed the <u>Shaking Test</u> without video loss.

UTP Balun's BNC Connector has a thicker center pin & thicker surrounding. This will avoid video loss while the balun is shaking.



Other Company's BNC

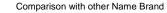


OK! But still not good enough



NO GOOD! Thin Pin and Thin Surrounding

C. On-going Testing for Quality Control







Test Instruments





Full Field Color Bar Test: Waveform



Full Field Color Bar Test:



A-1b

A-2_A-2a

A-3 A-3a A-3b

A-3C_A-3d_A-3e

Related Products

Passive Video Filter Balun

VPB100P - Pair



BNC Passive Video Transceiver - K1

VPBB-100



Passive Video Filter Balun with Pigtail

VPB100LP - Pair



Passive Video Balun with Power Connector

VPB110TK = VPB110TM + VPB110TF as a Kit





Passive Video/Power Lead Balun - RJ45

VPB110RJK = VPB110RJM + VPB110RJF as a Kit



VPB110RJM - Male For Camera Side A-3d



VPB110RJF - Female For Using Single Power Adaptor A-3e

Passive Video Balun with Video, Power Connector & Data



A-4

UTP = Unshielded Twisted Pair