USER MANUAL

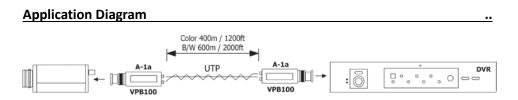


Passive Video Filter Balun Model: VPB100P – Pair



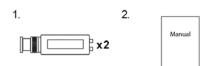
Features:

- Uses an Unshielded Twisted Pair cable (UTP), like CAT5, to transmit full motion camera video signal in Color up to 400 m / 1200 ft and in B/W up to 600 m / 2000 ft.
- 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
- Passive, no power required
- Fast, easy installation, saving time and money
- Substantial savings on the cost of the cable itself



Package Contents

1. Two (2) VPB100 Passive Video Filter Balun 2. One (1) User Manual



🛕 Caution:

- Do not connect this device to any power source.
- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.

Specifications

Model		VPB100P			
		Pair			
Video Input / Output		BNC Male to 2 push pin terminal			
Surge Protections	Video Output	2kV (common mode), 10/700µs			
	Protection	IEC61000-4-5			
	Video Input	100mA			
	Protection for				
	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 <60db			
Rejection & Noise Filter					
Protection		,			
Video Signal		1V p-p, 75 Ohms			
Transmission Distance		Color 400 m / 1200 ft ; B/W 600 m / 2000 ft			
Cable		UTP / Twisted Pair CAT5 (AWG24)			
Power		No Power Required			
Physical Properties	Dimensions	15 x 19 x 54 mm			
	WxHxD	0.59 x 0.75 x 2.13 inches			
	Weight	42.5 g / 1.5 oz			

* Specifications are subject to change without notice

R&D Designed in Taiwan Assembled in China.

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.



R201302-V25

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Why Us? Quality

A. Passive Video Balun Comparison with Our Competitors

OURS		Other Competitors'		
UTP Balun		Taiwan	China	China
* Lifetime warranty	A. PCB Placement welding Fewer welding points machinery production High Reliability Vibration Proof B. Jumper welding Many welding points Easy to be broken by vibration Complicated production procedure			
YES	Surge / Lightning Protection	NO	NO	NO
YES	ESD Protection	NO	NO	NO
YES	Built-in Filter	YES	YES	NO
Standard for Us	3	Options for others		

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 Protection Contact 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 Shaking Test 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.

UTP Balun's BNC

Thicker Center Pin



Other Company's BNC



OK! But still not good enough

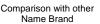
NO GOOD! Thin Pin and Thin Surrounding

C. On-going Testing for Quality Control



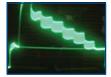
Multiburst Waveform Test







Full Field Color Bar Test: Waveform

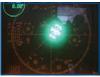


3

Test Instruments



Full Field Color Bar Test: Signal Phase Diagram



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Related Products

Passive Video Filter Balun

VPB100P - Pair



BNC Passive Video Transceiver – K1 VPBB-100







Passive Video Balun with Power Connector VPB110TK = VPB110TM + VPB110TF as a Kit





VPB110TF - Female For Using Single Power Adaptor A-3b

Passive Video/Power Lead Balun – RJ45 VPB110RJK = VPB110RJM + VPB110RJF as a Kit

VPBITURJK = VPBITURJNI + VPBITURJF 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 VPB111RJ



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A-1b

A-2_A-2a

A-3_A-3a_A-3b

A-3C_A-3d_A-3e