



# Passive Video/Power Lead Balun – RJ45



Model: VBU110RJK = VBU110RJM + VBU110RJF as a Kit

VBU110RJM = Male Only

VBU110RJF = Female Only

## Features:

- Uses an Unshielded Twisted Pair cable (UTP), to transmit full motion camera video signal in color up to 1000ft / 300m and in B/W up to 2000ft / 600m.
- No power required for video balun.
- **Surge / Lightning Protection**  
10/700  $\mu$ 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



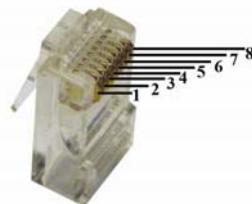
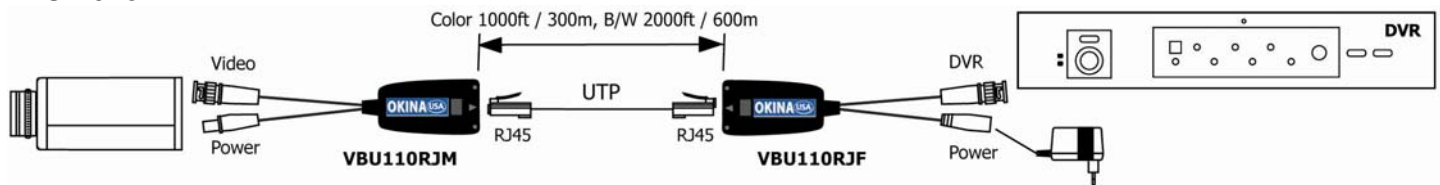
VBU110RJM- Male  
For Camera Side



VBU110RJF - Female  
For Using Single Power Adaptor

**Application Diagram:** The distance shown is for passive video balun signal only. Refer to back page for Voltage Drop List.

## VBU110RJK



Wrongfully mixing the colors may result in burning the camera.

| Pin | T568B Pair | T568B               | Character |
|-----|------------|---------------------|-----------|
| 1   | 2          | White/Orange Stripe | Video +   |
| 2   | 2          | Orange Solid        | Video -   |
| 3   | 3          | White/Green Stripe  | Power -   |
| 4   | 1          | Blue Solid          | Power -   |
| 5   | 1          | White/Blue Stripe   | Power -   |
| 6   | 3          | Green Solid         | Power +   |
| 7   | 4          | White/Brown Stripe  | Power +   |
| 8   | 4          | Brown Solid         | Power +   |

## Specification:

|  |   |   |
|--|---|---|
| <b>Model Number</b>  |   | <b>VBU110RJK</b>  |
| <b>Video Input / Output</b>  |   | BNC male cable & DC male/female to RJ45 modular jack                            |
| <b>Surge / Lightning Protections</b>                               | Video Output Protection                 | 2KV (common mode), 10/700µs<br>IEC6100-4 2/1955 (GB/T 1726, 5-1999)             |
|  | Video Input Protection                  | 2KV (different mode), 2KV (common mode)<br>IEC6100-4 2/1955 (GB/T 1726, 5-1999) |
|  | Video Input Protection for Over Current | 100mA   |
| <b>Electrostatic Discharge Protection (ESD)</b>                    |   | Contact Discharge: 6KV / Air Discharge: 8KV<br>Standard: IEC61000-4-2           |
| <b>Wave / Interference Rejection &amp; Noise Filter Protection</b> |   | Built-in Filter: 0~6HMz with Extra Interference Rejection <60db                 |
| <b>Video Signal</b>  |   | 1V p-p, 75 Ohms   |
| <b>Transmission Distance</b>                                       |   | Color 1000ft / 300m / B/W 2000ft / 600m   |
| <b>Cable</b>   |   | <b>UTP / Twisted Pair CAT5 (AWG24)</b>  |
| <b>DC Power Lead</b>   |   | 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                               |



### Caution:

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

**FCC**

**CE**

**RoHS**