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- Real-time transmission over UTP cat5e/6
- No power required
- Compatible with all HD-TVI, HD-CVI & AHD analog camera
- Colored video for up to:
 - 820ft (250m) for HD-TVI 720P cameras
 - 820ft (250m) for HD-TVI 1080P cameras
 - 820ft (250m) for HD-TVI 3MPX cameras
 - 580ft (180m) for HD-TVI 4MPX cameras
 - 580ft (180m) for HD-TVI 5MPX cameras
 - 1443ft (440m) for HD-CVI 720P cameras, 1541ft (470m) if the saturation was adjusted
 - 820ft (250m) for HD-CVI 1080P C cameras
 - 754ft (230m) for HD-CVI 4MPX cameras
 - 656ft (200m) for HD-CVI 4K cameras
 - 320m (1049ft) for HD-AHD 720P cameras
 - 1049ft (320m) for HD-AHD 960P cameras
 - 820ft (250m) for HD-AHD 1080P cameras
 - 590ft (180m) for HD-AHD 3MPX cameras
 - 656ft (200m) for HD-AHD 4MPX cameras
 - 656ft (200m) for HD-AHD 5MPX cameras
 - 1312ft (400m) for CVBS cameras
- NTSC, PAL & SECAM compatible
- Male BNC with extended 5.9inch(150mm)mini-coax pigtail
- Reliable push-pin terminal block connection for UTP cable
- Built-in TVS (Transient Voltage Suppressor)for surge protection
- Wave Filter Design, Anti-Static Design
- Lightning protection design Grade: III



- 60 dB crosstalk and noise immunity
- Exceptional interference rejection
- ABS engineering plastic housing

Overview

The TT101FTURBOZ video balun is a passive (non-amplified) device that allows the transmission of real-time CCTV HD video signal via cost-effective Unshielded Twisted Paired (UTP) cable. The TT101FTURBOZ is compatible with all HD-TVI, HD-CVI, AHD and CVBS analog cameras.

The TT101FTURBOZ has a mini-coax pigtail lead which allows quick mounting onto fixed cameras, allows in-camera mounting in most dome cameras and allows flexible connection with DVR. Push-pin terminal block allows tool-less connection of UTP cable output. Used in pairs, the TT101FTURBOZ eliminates costly and bulky coaxial cable.

The superior interference rejection and low emissions of the TT101FTURBOZ allow video signals to coexist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. The TT101FTURBOZ is built-in surge suppressor to protect video equipment against damaging voltage spikes. Its crosstalk and noise immunity ensure quality video signals.

Connectable design for neat installation

Old baluns make the cabinet a mess



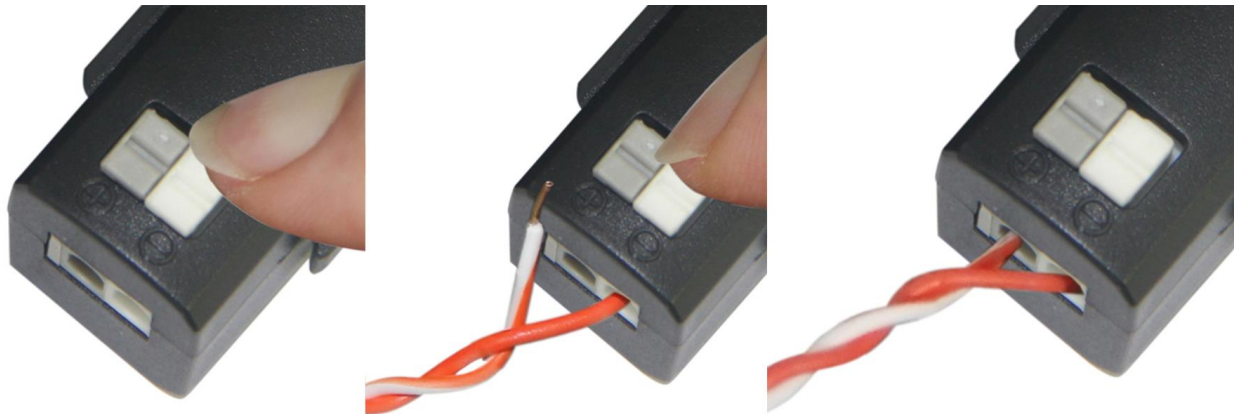
Baluns click together for a neat installation



Wire and Cable Recommendations

The TT101FTURBOZ is recommended to use with Unshielded Twisted Paired (UTP) wiring from 24AWG through 22AWG. Individually shielded pairs should be avoided, as they reduce the operating range of the systems drastically. Multi-pair cable (25-pair or more) with an overall shield are acceptable. Video signals can coexist in the same wire bundle as telephone, datacom, or low-voltages power circuits. While video may be routed through telephone punch-down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices **MUST BE** removed from the pair.

For more specific information regarding wire types, gauges and proper installation techniques, please contact us for technical assistance.



HD Passive Video Balun

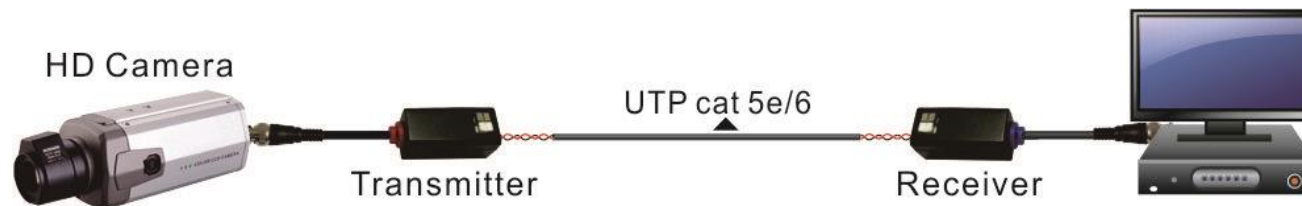
Technical Specifications

Model		TT101FTURBOZ					
Product Name		Single Channel HD Passive Video Balun					
Applied Devices		CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment					
Video	Video Format	HD-TVI/CVI/AHD/CVBS					
	Operating Frequency	DC to 42MHz					
	Max Distance	HD-TVI 720P 250m(820ft)	HD-TVI 1080P 250m(820ft)	HD-TVI 3MPX 250m(820ft)	HD-TVI 4MPX 180m(590ft)	HD-TVI 5MPX 180m(590ft)	
		HD-CVI 720P 440m(1443ft)	HD-CVI 1080P 250m(820ft)	HD-CVI 4MPX 230m(754ft)	HD-CVI 4K 200m(656ft)		
		HD-AHD 720P 320m(1049ft)	HD-AHD 960P 320m(1049ft)	HD-AHD 1080P 250m(820ft)	HD-AHD 3MPX 180m(590ft)	HD-AHD 4MPX 200m(656ft)	HD-AHD 5MPX 200m(656ft)
	Common-mode/Differential-mode rejection	15KHz to 42MHz 60 dB typ					
	Impedance	Coax: Male BNC 75Ω unbalanced					
		UTP: push-pin terminal block 100Ω balanced					
Attenuation	1.5 dB typ Max						
Wire Type	Network Wiring	One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)					
	Category Type	UTP cat 5e/6					
	Impedance	100 ± 20 ohms					
	DC Loop Resistance	52 ohms per 1,000ft (18 ohms per 100m)					
	Differential Capacitance	19 pF/ft max (62 pF/m max)					
Power		No external power required					
Connector	Video input/output	Male BNC connector					
	Video input/output	Tool-less push-pin terminal block					
Protection	Surge Protection	renewable solid state surge protection					
	Video Input	2KV(common mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)					
	Video Output	2KV(different mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)					
Mechanical	Housing	ABS engineering plastic					
	Body Color	Black					
	Dimensions(L*W*H)	1.51"x0.73"x0.77" (38.4*18.6*19.5mm) BNC connector & cable excluded					
	Net Weight	0.05lb (22g)					
Environmental	Operating Temperature	-4F to 158F (-20° to 70° C)					
	Relative Humidity	0~95% (non-condensing)					
	Storage Temperature	-40F to 302F (-40° ~ 150° C)					

Applications

- Security Monitoring Systems
- Multimedia Network Teaching System
- Medical Monitoring Systems
- Industrial Automation Control Systems
- Remote Network Server Monitoring
- Department Store Security Systems
- Casino Security Systems
- Hospitals, Airports and Banks
- School Campuses

Application Diagram



Note:

1. The actual transmission distance will vary depending on the cameras, DVR and on-site environmental conditions.
2. Make sure to install the transmitter on the camera side and receiver on the DVR side to achieve best video quality.
3. If you adjust the saturation of the DVR, the video transmission distance would increase to 1541ft (470m) for HD-CVI 720P.
4. If chromatic aberration occurs, please make sure to adjust the saturation, the picture would fully recover.
5. The device is not waterproof and not to be used for outdoor applications.