

# TT116TURBO

HD Passive Video Balun



## ► Features

16-Channel HD Passive Video Balun

Real-time transmission over UTP cat5e/6

No power required

NTSC, PAL & SECAM video format compatible

Compatible with all TurboHD cameras

Color video max up to 230m(754ft) for TurboHD 720P analog camera

Color video max up to 250m(820ft) for TurboHD 1080P analog camera

Female BNC connector

RJ45 and detachable terminal blocks for UTP cat5e/6

Built-in TVS (Transient Voltage Suppressors) for surge protection

Wave Filter Design, Anti-Static Design

Lightning protection design Grade: III

60 dB crosstalk and noise immunity

Exceptional interference rejection

Compact size and easy installation

Rack, wall mountable and desk installation with 4 rubber feet

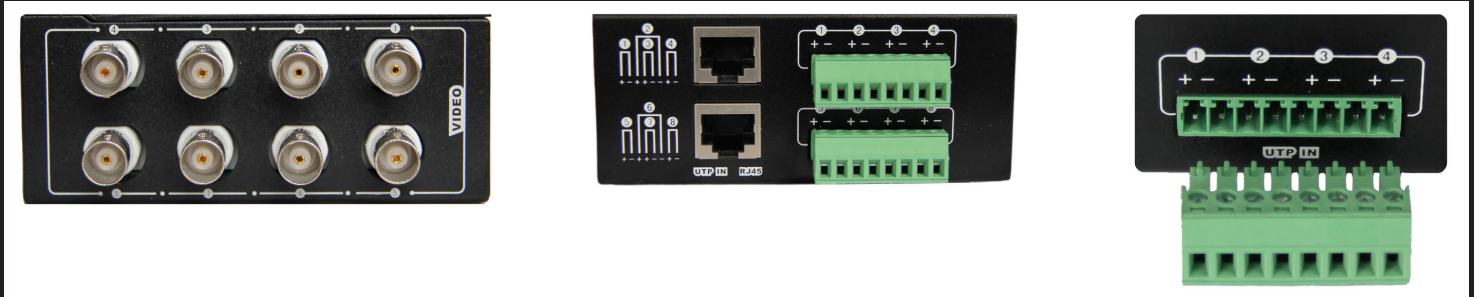
Black galvanized housing

## ► Overview

The TT116TURBO video balun hub 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. Baseband (composite) signals of any type are supported. The TT116TURBO is compatible with all HD-TVI, HD-CVI and AHD analog camera. The TT116TURBO supports pluggable screw terminal or RJ45 connections. Used with single channel HD passive video transmitter, the TT116TURBO is capable to receive 16 channel live CCTV HD video signal from camera end via 4 UTP cables. The superior interference rejection and low emissions of the TT116TURBO 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. It is built-in surge suppressor to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

## ► Wire and Cable Recommendations

The TT116TURBO 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.



## Technical Specifications

Model	TT116TURBO		
Product Name	16 Channel HD Passive Video Balun		
Applied Devices	CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment		
Video	Video Format	PAL, NTSC, SECAM	
	Operating Frequency	DC to 42MHz	
	Max Distance	TurboHD 720p	: 230m
		TurboHD 1080p	: 250m
	Common-mode / Differential-mode rejection	15KHz to 42MHz 60dB typ	
	Impedance	Coax, female BNC	75Ω unbalanced
		UTP, screw terminal block or RJ45	100Ω balanced
Attenuation	1.5dB typ Max		
Wire Type	Network Wiring	One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)	
	Category Type	2 or better	
	Impedance	100 ± 20 ohms	
	DC Loop Resistance	52ohms per 1,000ft (10ohm per 100m)	
	Differential Capacitance	19pF/ft max (62pF/max)	
Power	Power	No external power required	
Connector	Video Input/Output	Female BNC connector	
	Video Input/Output	Pluggable screw terminal block and RJ45 ( select one connection)	
Protection	Surge Protection	Renewable solid state surge protection	
	Antistatic	YES	
	Video Input	2KV(common mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)	
Mechanical	Video Output	2KV(different mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)	
	Dimensions (L*W*H)	BNC connector & mounting bracket excluded	
		430*85*44.5mm	
	Housing	Galvanized	
	Body Color	Black	
Net Weight	1250g		
Enviromental	Operating Temperature	-20°C ~ 70°C	
	Relative Humidity	0 ~95% (non-condensing)	
	Storage Temperature	-40°C ~ 150°C	

## Applications

- Security Monitoring System
- Multimedia network teaching system
- Medical monitoring display system
- Industrial automation control system
- Banking, securities, financial information display system
- Remote network server monitoring
- Department store security
- Casino security
- Hospitals, airports and banks
- School campuses

## Application Diagram

