

## Model TT101PVTURBO

### Features

#### 1-CH HD Passive Video & Power Transmitter & Receiver (12V/24V DC/AC)

- Real-time transmission
- No power required
- NTSC, PAL & SECAM video format compatible
- Transmit power signal up to 656ft(200m) in pairs
- Compatible with all HD-TVI, HD-CVI & AHD analog camera
- HD-TVI 720P: 300m,1080P: 200m over UTP cat5e/6
- HD-CVI 720P: 430m,1080P: 210m over UTP cat5e/6
- AHD 720P: 300m,960P: 200m over UTP cat5e/6
- Male BNC with extended 5.9inch(150mm)mini-coax pigtail
- RJ45 Jack 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 TT101PVTURBO 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.

Used in pairs, the FS-4301VP eliminates costly and bulky coaxial cable. The TT101PVTURBO is compatible with all HD-TVI, HD-CVI and AHD analog camera.

The superior interference rejection and low emissions of the TT101PVTURBO 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 TT101PVTURBO has built-in surge suppressor to protect video equipment against damaging voltage spikes. Its crosstalk and noise immunity ensure quality video signals.

## Applications

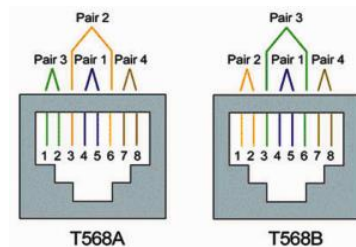
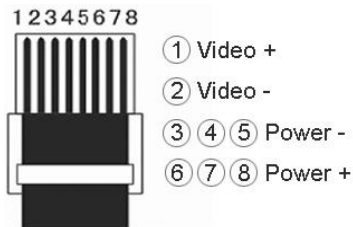
- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses

## Wire and Cable Recommendations

The TT101PVTURBO 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-voltage 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.

	1	2	3	4	5	6	7	8
<b>T568A:</b>	White Green	Green	White Orange	Blue	White Blue	Orange	White Brown	Brown
<b>T568B:</b>	White Orange	Orange	White Green	Blue	White Blue	Green	White Brown	Brown



## Technical Specifications

Model		TT101PVTURBO		
Product Name		Single Channel HD Passive Video and Power Transmitter & Receiver		
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	HD-TVI 720P: 300m,	HD-CVI 720P: 430m,	AHD 720P: 300m,
		HD-TVI 1080P: 200m	HD-CVI 1080P: 210m	AHD 960P: 200m
	Common-mode/Differential-mode rejection	15KHz to 42MHz 60 dB typ		
	Impedance	Coax, Male BNC 75Ω unbalanced UTP,RJ45 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	2 or better		
	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	Power Input	No external power required		
	Power transmission	12V/24V,DC/AC, up to 656ft(200m) via UTP cat5e/6		
Connector	Video input/output	Male BNC connector		
	Video input/output	RJ45 Jack		
Protection	Surge Protection	renewable solid state surge protection		
	Video Input	2KV(common mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)		
	Video Output	2KV(different mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)		
Mechanical	Housing	ABS engineering plastic		
	Body Color	Black		
	Dimensions(L*W*H)	60.4*29*20.4mm (BNC connector & cable excluded)		

# HD Passive Video & Power Balun

	Net Weight	60g
Environmental	Operating Temperature	-20° ~ 70° C
	Relative Humidity	0~95% (non-condensing)
	Storage Temperature	-40° ~ 150° C

## Application Diagram

