

## Single Channel POC & HD Video Balun

- Built in Cable Strain Relief
- Easy Cable install one button press
- Real-time transmission over UTP cat5e/6
- Compatible with all HD-TVI/CVI/AHD/CVBS and POC analog camera
- Low crosstalk and noise suppression
- Surge Protection : 2KV
- Wave Filter Design, Anti-Static Design
- Power and video signals transmit over one twist pair cable
- 60 dB crosstalk and noise immunity
- Exceptional interference rejection
- ABS engineering plastic housing



The video balun is a passive (non-amplified) device that allows the transmission of real-time CCTV HD video, power and data signal via cost-effective Unshielded Twisted Paired (UTP) cable for application of POC camera and POC DVR. This is also compatible with all HD-TVI, HD-CVI, AHD cameras up to 4K and CVBS analog cameras.

Male BNC allows connection directly to the camera and DVR. Push-pin terminal block allows tool-less connection of UTP cable output. Used in pairs, eliminates costly and bulky coaxial cable.

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



Strain Relief Feature



Easy Push Button for Cable Entry



Join together for tidiness behind DVR, no need for expensive hubs



Transmission Distance Chart (with power)

Input Power	Distance	Output Voltage	Output Current	Load Capacity
DC48V 500mA	10 meters	47.45V	200mA	9.49W
	30 meters	46.81V	200mA	9.36W
	50 meters	45.57V	200mA	9.1W
	100 meters	44.33V	200mA	8.87W
	150 meters	41.81V	200mA	8.36W
Peak Current > 200mA and Peak Power > 8.5W				

Transmission Distance Chart (without power)

Camera Type	HD-TVI	HD-CVI	HD-AHD
720P camera	400m(1312ft)	450m(1476ft)	450m(1476ft)
960P camera	Not tested	Not tested	320m(1049ft)
1080P camera	250m(820ft)	250m(820ft)	250m(820ft)
3MP camera	250m(820ft)	Not tested	250m(820ft)
4MP camera	180m(590ft)	200m(656ft)	200m(656ft)
5MP camera	180m(590ft)	Not tested	180m(590ft)
4K Camera	150m(426ft)	150m(426ft)	150m(492ft)
CVBS camera	400m(1312ft)		

POC / HD Camera



UTP cat 5e/6



POC / HD DVR

### Technical Specifications

Model		HAY-HDVB01POC-PT
Product Name		Single Channel POC & HD Passive Video Balun
Applied Devices		CCTV POC/HD cameras, monitors, POC/HD DVR, and other CCTV equipment
Video	Video Format	HD-TVI/CVI/AHD/CVBS
	Operating Frequency	DC to 71MHz
	Common-mode/Differential-mode rejection	15KHz to 71MHz 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		36V~48V
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
	Video Output	2KV(differential mode), 10/700us IEC61000-4-5
Mechanical	Housing	ABS engineering plastic
	Body Color	Black
	Dimensions(L*W*H)	40.7*18.7*17mm (BNC connector & cable excluded)
	Net Weight	22g
Environmental	Operating Temperature	-20° ~55° C
	Relative Humidity	0~95% (non-condensing)
	Storage Temperature	-40° ~ 150° C