



1080p High Performance Baluns/Hubs

With the emergence of HD-TVI, HD-CVI and AHD High Definition System the need for a superior balun to convert legacy UTP to the coax connectors on the camera and DVRs will become a necessity.

Once again GEM Electronics looks at the future and develops products that you will need.

The extra bonus is that these baluns will improve your standard analog systems at comparable cost to standard analog baluns

Video Balun



P/N HDB-VSTPT2



P/N HDB-RJPT2

Ground Loop Isolator



P/N HD-GLI



P/N HD-GLIVB

Video/Power & Video/Power/Data Balun



P/N HDB-PVRJ45PT2



P/N HDB-PVDRJ45PT2



P/N HDB-PVCRJ45PT2



P/N HDB-PVRJ45PT2-1



P/N HDHUB-4P

4-ch HD Passive Video Balun.

RJ45 and detachable terminal blocks for UTP cat5e/6 cable.

Dimensions: 7L x 4W x 1.33H inches (BNC connector and mounting bracket included).



P/N HDHUB-8P

8-ch HD Passive Video Balun.

RJ45 and detachable terminal blocks for UTP cat5e/6 cable.

Dimensions: 7L x 4W x 1.75H inches (BNC connector and mounting bracket included).



P/N HDHUB-16P

16-ch HD Passive Video Balun.

RJ45 and detachable terminal blocks for UTP cat5e/6 cable.

Dimensions: 17L x 4.4W x 1.75H inches (BNC connector and mounting bracket included).

Technical Specifications:

Color video max up to 1443ft for 720P HD-CVI analog camera, 787ft for 1080P over UTP cat5e/6. Color video max up to 754ft for 720P HD-TVI analog camera, 820ft for 1080P over UTP cat5e/6. Color video max up to 1050ft for 720P HD-AHD analog camera, 1082ft for 960P over UTP cat5e/6. Built-in TVS for surge protection. Lightning protection design grade III. Wave filter design, Anti static design. 60dB crosstalk and noise immunity. ABS Engineering plastic housing.



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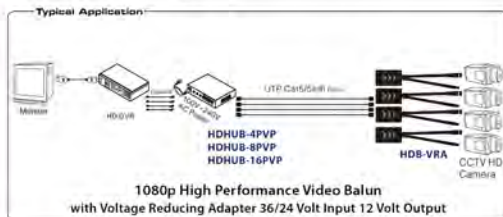
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1080p HD Video Power Hubs

The receiver is a UTP Transceiver that can transfer HD video and power at the same time. This product utilizes CAT5/5e/6 cable to optimize data transfer to 4/8/16 CH HDCVI/HDTV/AHD signals allowing power to the cameras up to 1000 FT (300m) while simplifying the project setup.

This product features long distance, high quality transmission and strong anti-interference. It is recommended for CCTV surveillance systems.



1080p High Performance 4 Position Video/Power Hub, 36 Volt
HDHUB-4PVP



1080p High Performance 8 Position Video/Power Hub, 36 Volt
HDHUB-8PVP



**HDHUB-4PVP
HDHUB-8PVP
HDHUB-16PVP**

1080p High Performance 16 Position Video/Power Hub, 36 Volt
HDHUB-16PVP



FEATURES

- Receive 4/8/16 Channels HD video and provides power supply.
- Compatible with HDCVI/HDTV/AHD.
- Output DC 36V 100W/150W/320W power supply.
- Color HD video transmission distance (passive to passive):
HDCVI 720P: 400m/1080P: 250m
HDTV 720P/1080P: 200m
AHD 720P: 300m/1080P: 200m
- Power supply transmission distance up to 300m providing max DC 36V 24W for each channel.
- Power LED, Overload Protection LED.
- Built-in fan for thermal dissipation.
- Plug and play simple installation
- Super surge protection and interference rejection.

SPECIFICATIONS

Item	Description		
	Channel	4 Channel	8 Channel
Function	HD Video Transmission Distance	HDCVI 720P: 400m/1080P: 250m HDTV 720P/1080P: 200m AHD 720P: 300m/1080P: 200m	
	Power Transmission Distance	300m Max DC 18V 24W for each channel	
	Video Compression	H.264	
	UTP Cable Connector	RJ45	
Video Properties	Compatible With	HDCVI/HDTV/AHD	
	Signal Transmission Band	5-155MHz	
	Overcurrent Protection	100A	
Protection	Surge Protection	2KV 10/100µs IEC 61000-4-6	
Reliability	ESD	Contact Discharge: 1500V Air Discharge: 3000V IEC 61000-4-2, 1995	
	MTBF	>10000h	
	Power Input	200-240VAC 50/60Hz	400-220VAC 50/60Hz
Physical Properties	Outer Shell Material	Iron Metal	
	Color	Black	
	N.W.	2.1kg	2.3kg
Environmental	Operation Temperature	0°C-55°C	
	Storage Temperature	-30°C-80°C	
	Relative Humidity	20%-85% (non-condensing)	



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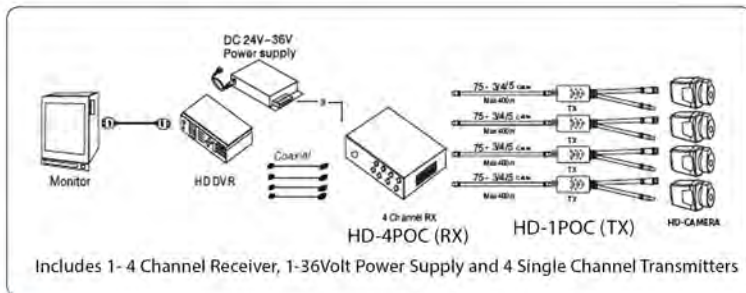
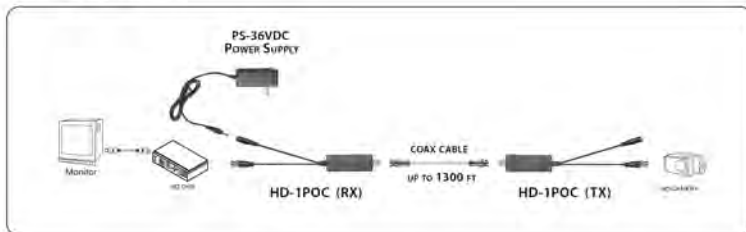
1080p HD Power Over Coax

The device is used to power security cameras with 12VDC voltage coaxial cable and transmit / receive the composite HD video signal from the cameras over the same 75 ohm coaxial cable (RG-59 or higher quality) at a distance up to 1300 feet. Monitoring side input is 36 VDC; plug and play and easy to install. It is ideal for monitoring areas where no power is available to operate a camera.



P/N HD-1POC (RX and TX)

Typical Application





1080p HD Power Over Coax

Features

- Compatible with HDCVI / HDTV / AHD / CVBS.
- Input voltage: DC36V, output power max to 1VDC, 12W.
- Transmit instant video - no delay.
- Long transmission of up to 1300 feet (400M).
- 1 cable for power and video transmission. No need to run AC line and install power to camera resulting in reduced material costs.
- Built-in surge and transient protection; super interference rejection.
- Outershell: with extended coaxial cable; easy to install with DVR, RG59 and BNC.

Specifications:

	Item	Specification
Properties	Transmission signal	1 channel HD video
	HD Video transmission distance	720P/1080P:400m(Max)
	Power transmission distance	Input voltage
		DC 24V
Video transmission properties and port	Coaxial video connector	DC 36V
		Distance(75-5)
	Connecting way	0-100M
		100-300M
	Compatible Format	300-400M
		0-400M
Protection	Resolution	DC 12V 6W
		DC 12V 3.5W
	Anti-interference	DC 12V 3W
		DC 12V 7W
	Category Type	Coax 75-5/75-3
	Coaxial video connector	BNC-M
Physical Properties	Connecting way	BNC
	Compatible Format	HDCVI/HDTV/AHD/CVBS
	Resolution	720P/1080P
	Anti-interference	>60db
	ESD	1a contact discharge electricity level 3
		1b air discharge electricity level 3
Impedance	Coax	Per: IEC61000-4-2
		2KV(common-code) Per: IEC1000-4-5
Stability	Coax	2KV(different-code), 4KV(common-code), Per: IEC1000-4-5
		75 ohms
	Dimension (L*W*H)	
	Shell	ABS
Environmental	Color	Black
	N. W.	
	MTBF	>10000H
	Operating Temperature	-10-55°C
Environmental	Storage Temperature	-20-70°C
	Humidity	0-95% (non-condensing)



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4 Channels AHD/CVI/TV Coaxial Multiplexer

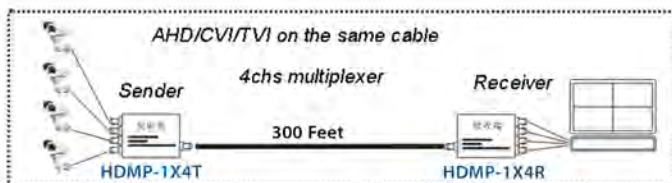
1080p High Performance 4 HD-TVI signals over 1 Coax Multiplexer, 300 feet **PAIR**.



P/N HDMP-1x4



Typical Application



Features

- The new project can use this device with the 4 coaxial video cable becomes a coaxial video cable, saving cable usage.
- Reconstruction project in the newly added point, you can access nearby.
- Compatible HD-CVI / AHD / TVI / analog video signals.
- Wide voltage input, multi-stage power supply filter design, (DC 5V-12V input)
- Built-in ESD protection circuit module signal the effective protection of the principle Cockpit equipment from outside electrostatic interference.
- Modular design and installation, bi-directional transmission of video signals
- No need adjustment.
- The use of advanced digital compression technology.
- The full real-time video transmission, no dropped frames without delay, broadcast-quality image index.
- The simple wiring structure, easily obtained, low cost, simple construction, reduce working hours
- The product uses the patch installation process to ensure its stability.
- The aluminum alloy shell



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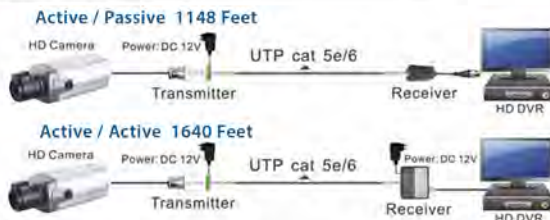
Active HD-1080p Baluns for HD-TVI, CVI, AHD and Analog

Mini 1-CH HD Active Video Transmitter/Receiver



HDB-APRT	1080p High Performance Active/Passive Video Balun, 1148 Feet - PAIR
HDB-AART	1080p High Performance Active/Active Video Balun, 1640 Feet - PAIR

Typical Application



Features

- Compatible with HD-AHD / TVI / CVI analog cameras.
- Color video up to 1640 ft (500m) for HD-TVI / CVI / AHD (1080p/720p) camera.
- Color video up to 1148 ft (350m) with HD passive receiver for HD-TVI (1080p/720p) camera.
- Mini design, thumbnail design.
- Silver galvanized housing.
- Detachable terminal blocks for UTP cable.
- Working temperature -4°~158°F (-20~70°C).
- 12VDC Power Supply (power supply excluded).
- Dimensions: 1.75"x.68"x.73" (40x17.3x18.5mm) BNC connector included.

