

### Features

- Single Channel Active Video Receiver / Transmitter
- NTSC, PAL & SECAM Video Formats
- 12V/24V DC/AC Power Supply
- Pluggable Screw Terminal Block for UTP
- Full Ground-Loop Immunity
- Lightning Protection Grade: V
- Integrated 2 CH Video Distribution Amplifier (Receiver Only) Allows Dual Output for DVR and Monitor
- Colour Video Signal up to 4900ft (1500m) via UTP cat5e/6
- Real-time transmission
- Adjustable Brightness and Sharpness
- Exceptional Interference Rejection •70 dB Crosstalk and Noise Immunity
- Built in TVS (Transient Voltage Suppressors) for Surge Protection
- Female BNC Connector
- Fine tuning on the ACR - Brightness and Sharpness Adjustable

### HAY-ACR ACTIVE VIDEO BALUN (AMPLIFIED) RECEIVER

The HAY-ACR video balun hub is an active (amplified) device that allows the transmission of real-time CCTV video signal via cost-effective Unshielded Twisted Paired(UTP) cable. Baseband (composite) signals of any type are supported. The power requirement is 12V/24V DC/AC. The pluggable screw terminal block allows for easy connection of the UTP cable. It receives one channel video signal from camera end via one UTP cable at distance up to 4900ft (1500m) when used with (HAY-ACT) active video transmitter.

The transmission distance is up to 3200ft (1000m) when used with passive video transceiver.

Its integrated 2 channel video distribution amplifier allows dual output to display video at both monitor and DVR.

### HAY-ACT ACTIVE VIDEO BALUN (AMPLIFIED) TRANSMITTER

The HAY-ACT video balun is an (amplified) device that allows the transmission of real-time CCTV video signal via cost-effective Unshielded Twisted Pair (UTP) cable. Baseband (composite) signals of any type are supported.

The power requirement is 12/24V DC/AC. With screw terminal blocks this allows easy connection of UTP cable output.

It transmits single channel video signals from camera to DVR via one UTP cable at distance up to 4900ft (1500m) when used with active video receiver.

The HAY-ACT/ACR units have a single distance adjustment as well as built-in surge suppression to protect video equipment against damaging voltage spikes. Its Integrated Ground Loop isolation prevents annoying "hum-bars" common with long distance installations and its excellent crosstalk and noise immunity provides quality video up to the maximum distance.

The superior interference rejection and low emissions of the unit allows video signals to co-exist 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 recommended to use (UTP) wiring from 24AWG - 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.

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.

Model	HAY-ACR		HAY-ACT	
Product Name	Sing Channel Active Video Receiver		Sing Channel Active Video Transmitter	
Applied Devices	CCTV Cameras, Monitors, DVR, Switchers, IP Encoders			
Video	Video Format	PAL, NTSC, SECAM		
	Operation Frequency	DC to 6MHz		
	Max Distance	UTP Category 5e (24AWG) Colour: 4900ft(1500m) B&W: 8000ft(2500m)		
	Common-mode/Differential-mode rejection	70 dB typ		
	Impedance	Coax: Female BNC 75ohms UTP: Screw Terminal block 100ohms		
	Video Distance Adjustment	N/A	Brightness & Sharpness Adj	
LED Indicator	Red	Power On		
	Yellow	"Active" Signal Present		
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	Adaptive Voltage Range	12V-40V DC or 9V-24V AC		
	Power Consumption	< 100Mw		
Connector	Video Input	Female BNC Connector		
	Video Output	Pluggable Screw Terminal Block for UTP		
Protection	Surge Protection	Built-in Transient Voltage Suppressor		
	Ground Isolation	YES		
	Antistatic	YES		
Mechanical	Dimensions (L x W x *H)	118 x 82 x 81mm		
	Housing	Galvanized		
	Body Colour	Silver		
	Net Weight	200g	210g	
Environmental	Operating Temperature	- 10°~ 70°C		
	Relative Humidity	0 – 95% (non-condensing)		
	Storage Temperature	- 20°~ 85°C		

HAY-ACT



HAY-ACR

