

**Overview**

The Passive CCTV Hub allows video, remote power and PTZ control to be transmitted via one Cat5 cable, thus eliminating the need to install multiple cables for more efficient cabling in the security video environment. There are two 16-port models: 500130; with coax video output and 500131; with twisted pair video output. The Passive CCTV Hub works in conjunction with the 500000, 500009, 500015, 500022, 500023, 500024, 500029 and 500120.



**Features/Benefits**

- Port switch to set Power-Thru or Pass-Thru mode
- Pin configuration table on unit
- Space efficient, rackmountable

Specifications		
<b>Environment</b>	Composite video; NTSC, PAL, SECAM	
<b>Devices</b>	CCTV cameras, DVRs, monitors, switchers, multiplexers and other CCTV equip.	
<b>Transmission</b>	Transparent to the user.	
<b>Video</b>		
<b>Bandwidth</b>	DC to 8 MHz.	
<b>Maximum Input</b>	1.1Vp-p	
<b>Insertion Loss</b>	Less than 2 dB per pair over the frequency range from DC to 8 MHz	
<b>Return Loss</b>	Greater than 15 dB over the frequency range from DC to 8 MHz	
<b>Common Mode Rejection</b>	Greater than 40 dB @ 8 MHz	
<b>Max. Distance - Colour</b>	Cat 3 –1,200 ft (365m); Cat 5 – 2,200 ft. (670m)* <i>*Shorter distances will result with DVR equipment. Typically 1,000 to 1,500 ft</i>	
<b>Max. Distance - B&amp;W</b>	Cat 3 –1,500 ft (457m); Cat 5 – 2,500 ft (762m)	
<b>Remote Power</b>		
<b>Switch Mode</b>	<b>Pass-Thru Mode (500022)</b>	<b>Power-Thru Mode (500024/500029)</b>
<b>Number of twisted pairs</b>	Two (2)	Three (3)
<b>Max. Distance @ 24VAC*</b> <i>*Based on 10% voltage drop at camera. Longer distances may be achieved @ 28 VAC.</i>	5 VA: 350 ft (107m) 10 vA: 175 ft (53m) 20 VA: 90 ft (30m) 30 vA: 60 ft (20m)	5 VA: 518 ft (170m) 10 VA: 259 ft (85 m) 20 VA: 130 ft (43 m) 30 VA: 86 ft (28 m)
<b>Maximum Input Voltage</b>	50 Volts (AC RMS/DC). Recommended Class II PSU with fuse protection per port	
<b>Maximum Current Rating</b>	4.5A (AC RMS/DC)	
<b>2-Wire PTZ Control (i.e. RS-422, Manchester/Bi-Phase, half duplex RS485) – Pass-Thru Mode (500022)</b>		
<b>Wiring</b>	Remote 2-wire PTZ control supported via one (1) twisted pair.	
<b>Maximum Distance</b>	Up to 4,000 ft (1.2 km) depending on the PTZ camera vendor** <i>**Please consult your CCTV equipment vendor for more detailed performance specifications.</i>	
<b>Maximum Power Rating</b>	50 Volts (AC RMS/DC); 3A (AC RMS/DC)	
<b>Mechanical &amp; Environmental</b>		
<b>Cable – UTP</b>	24 AWG or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz	
<b>Cable – Coax</b>	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.	
<b>Connectors</b>	Video: Sixteen (16) BNC-F (500130), Sixteen (16) 2-pole screw terminals (500131) Power: Sixteen (16) 2-pole screw terminals Control: Sixteen (16) 2-pole screw terminals. Combined signals: Sixteen (16) RJ45 jacks	
<b>Port Configuration Switch</b>	Sets each port as Pass-Thru (500022) or as Power-Thru (500024/500029)	
<b>RJ45 Pin Configuration*</b> <i>*Reverse polarity sensitive</i>	<b>Signal</b>	<b>500022 Mode</b> <b>500024/500029 Mode</b>
	Power A (+)	1, 3
	Power B (-)	2, 6
	Control (+)	4
	Control (-)	5
	Video BNC Center (Tip)	7 [T] opposite to 500000      7 [T] opposite to 500000
	Video BNC Ground (Ring)	8 [R] opposite to 500000      8 [R] opposite to 500000
<b>Temperature</b>	Operating: 0° to 55°C. Storage:-20° to 85°C. Humidity: up to 95%	
<b>Enclosure</b>	Black, anodized aluminum	
<b>Dimensions</b>	19" (48.26 cm) W x 1.75" (4.4 cm) H x 1.5" ( 5.1 cm) D	
<b>Weight</b>	2.3 lbs. (1.1kgs)	
<b>Warranty</b>	Lifetime	
<b>Order Information</b>	500130 Passive CCTV Hub, UTP/Coax ; 500131 Passive CCTV Hub, UTP/UTP	

# VideoEase Passive CCTV Hub 500130, 500131

## Typical Application

