

**Overview**

The Passive CCTV Hub Plus allows video, remote power and PTZ control to be transmitted via one Cat5e/6 cable, thus eliminating the need to install multiple cables for more efficient cabling in the security video environment. The hub includes a 16-channel 18/2 power cable assembly to allow the hub to be connected to a 16-channel CCTV power supply for greater ease of installation.



**Features/Benefits**

- Port switch to set Power-Thru or Pass-Thru mode
- Includes 16-channel 18/2 power cable assembly
- 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); Cat5e/6 – 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); Cat5e/6 – 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: 16 BNC-F Power: 16 2-pole terminals. Control: 16 2-pole terminals. Includes 16-channel 24" (61cm) 18AWG/2-wire power cable assembly terminated on 4-pole screw terminal blocks (Packaged separately). Terminal blocks mate with hub. Combined signals: 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	1, 3, 5
	Power B (-)	2, 6	2, 4, 6
	Control (+)	4	Not used
	Control (-)	5	Not used
	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>	2.6 lbs. (1.2kgs)		
<b>Warranty</b>	Lifetime		
<b>Order Information</b>	500134 Passive CCTV Hub Plus		

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## Typical Application

