

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			
Environment	Composite video; NTSC, PAL, SECAM		
Devices	CCTV cameras, DVRs, monitors, switchers, multiplexers and other CCTV equipt.		
Transmission	Transparent to the user.		
Video			
Bandwidth	DC to 8 MHz.		
Maximum Input	1.1Vp-p		
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 8 MHz		
Return Loss	Greater than 15 dB over the frequency range from DC to 8 MHz		
Common Mode Rejection	Greater than 40 dB @ 8 MHz		
Max. Distance - Colour	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>		
Max. Distance - B&W	Cat 3 –1,500 ft (457m); Cat5e/6 – 2,500 ft (762m)		
Remote Power			
Switch Mode	Pass-Thru Mode (500022)	Power-Thru Mode (500024/500029)	
Number of twisted pairs	Two (2)	Three (3)	
Max. Distance @ 24VAC* <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)	
Maximum Input Voltage	50 Volts (AC RMS/DC). Recommended Class II PSU with fuse protection per port		
Maximum Current Rating	4.5A (AC RMS/DC)		
2-Wire PTZ Control (i.e. RS-422, Manchester/Bi-Phase, half duplex RS485) – Pass-Thru Mode (500022)			
Wiring	Remote 2-wire PTZ control supported via one (1) twisted pair.		
Maximum Distance	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>		
Maximum Power Rating	50 Volts (AC RMS/DC); 3A (AC RMS/DC)		
Mechanical & Environmental			
Cable – UTP	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		
Cable – Coax	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.		
Connectors	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		
Port Configuration Switch	Sets each port as Pass-Thru (500022) or as Power-Thru (500024/500029)		
RJ45 Pin Configuration* <i>*Reverse polarity sensitive</i>	Signal	500022 Mode	500024/500029 Mode
	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
Temperature	Operating: 0° to 55°C. Storage: -20° to 85°C. Humidity: up to 95%		
Enclosure	Black, anodized aluminum		
Dimensions	19" (48.26 cm) W x 1.75" (4.4 cm) H x 1.5" (5.1 cm) D		
Weight	2.6 lbs. (1.2kgs)		
Warranty	Lifetime		
Order Information	500134 Passive CCTV Hub Plus		

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Typical Application

