

Overview

The Passive CCTV/GLI 16-Port 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.



The product features full DC isolation for CCTV systems where ground loops may be present and works in conjunction with all MuxLab CCTV baluns, including the 500000R, 500009, 500022, 500024, 500100 and 500101.

Features/Benefits

- Ground Loop Isolation (GLI) on each port
- Port switch to set Power-Thru or Pass-Thru mode
- Pin configuration table on unit
- Space efficient, rack mountable

Specifications			
Environment	Composite video; NTSC, PAL, SECAM		
Devices	CCTV cameras, DVRs, monitors, switchers, multiplexers and other CCTV equip.		
Transmission	Transparent to the user.		
Video			
Bandwidth	20Hz to 8 MHz. (DC isolation)		
Maximum Input	1.1Vp-p		
Insertion Loss	Less than 2 dB per pair over the frequency range from 20Hz to 8 MHz		
Return Loss	Greater than 15 dB over the frequency range from 20Hz to 8 MHz		
Common Mode Rejection	Greater than 40 dB @ 8 MHz		
Ground Loop Isolation	Up to 50VDC		
Max. Distance - Colour	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>		
Max. Distance - B&W	Cat 3 –1,500 ft (457m); Cat 5 – 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 O at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.		
Connectors	Video: Sixteen (16) BNC-F Power: Sixteen (16) 2-pole screw terminals Control: Sixteen (16) 2-pole screw terminals. Combined signals: Sixteen (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] Same as 500000R	7 [T] Same as 500000R
	Video BNC Ground (Ring)	8 [R] Same as 500000R	8 [R] Same as 500000R
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	2.3 lbs. (1.1kgs)		
Warranty	Lifetime		
Order Information	500133 Passive CCTV/GLI Hub, UTP/Coax		

Typical Application

