

**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

<b>Specifications</b>			
<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>	20Hz to 8 MHz. (DC isolation)		
<b>Maximum Input</b>	1.1Vp-p		
<b>Insertion Loss</b>	Less than 2 dB per pair over the frequency range from 20Hz to 8 MHz		
<b>Return Loss</b>	Greater than 15 dB over the frequency range from 20Hz to 8 MHz		
<b>Common Mode Rejection</b>	Greater than 40 dB @ 8 MHz		
<b>Ground Loop Isolation</b>	Up to 50VDC		
<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 O at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.		
<b>Connectors</b>	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		
<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] Same as 500000R	7 [T] Same as 500000R
Video BNC Ground (Ring)	8 [R] Same as 500000R	8 [R] Same as 500000R	
<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>	500133 Passive CCTV/GLI Hub, UTP/Coax		

# VideoEase Passive CCTV/GLI Hub 500133

## Typical Application

