

### Overview

The LongReach™ 16 is a 16-port Active CCTV Receiver Hub with full Auto Gain Control (AGC) providing a true plug-and-forget CCTV cabling solution via copper twisted pair. The LongReach 16 automatically adjusts picture brightness, sharpness and contrast based on actual cabling conditions, thereby helping to reduce on-site service calls.



The LongReach 16 is available in two (2) models: UTP/UTP and UTP/Coax depending on the cabling application. The product supports up to 4,500 ft (1,371m) between the camera and DVR or IP camera encoder via Cat 5/6 twisted pair cable when used in conjunction with MuxLab's passive CCTV Baluns.

### Features

- Auto Gain Control (AGC) on each port
- Up to 4,500 feet (1066m) via Cat 5 UTP
- Supports NTSC, PAL and SECAM
- Ground Loop Isolation up to +/-50V
- Fuse protection
- LEDs for power and video sync
- Requires 24VAC (included)
- 1 year warranty

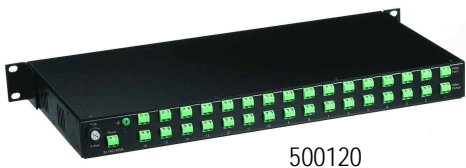
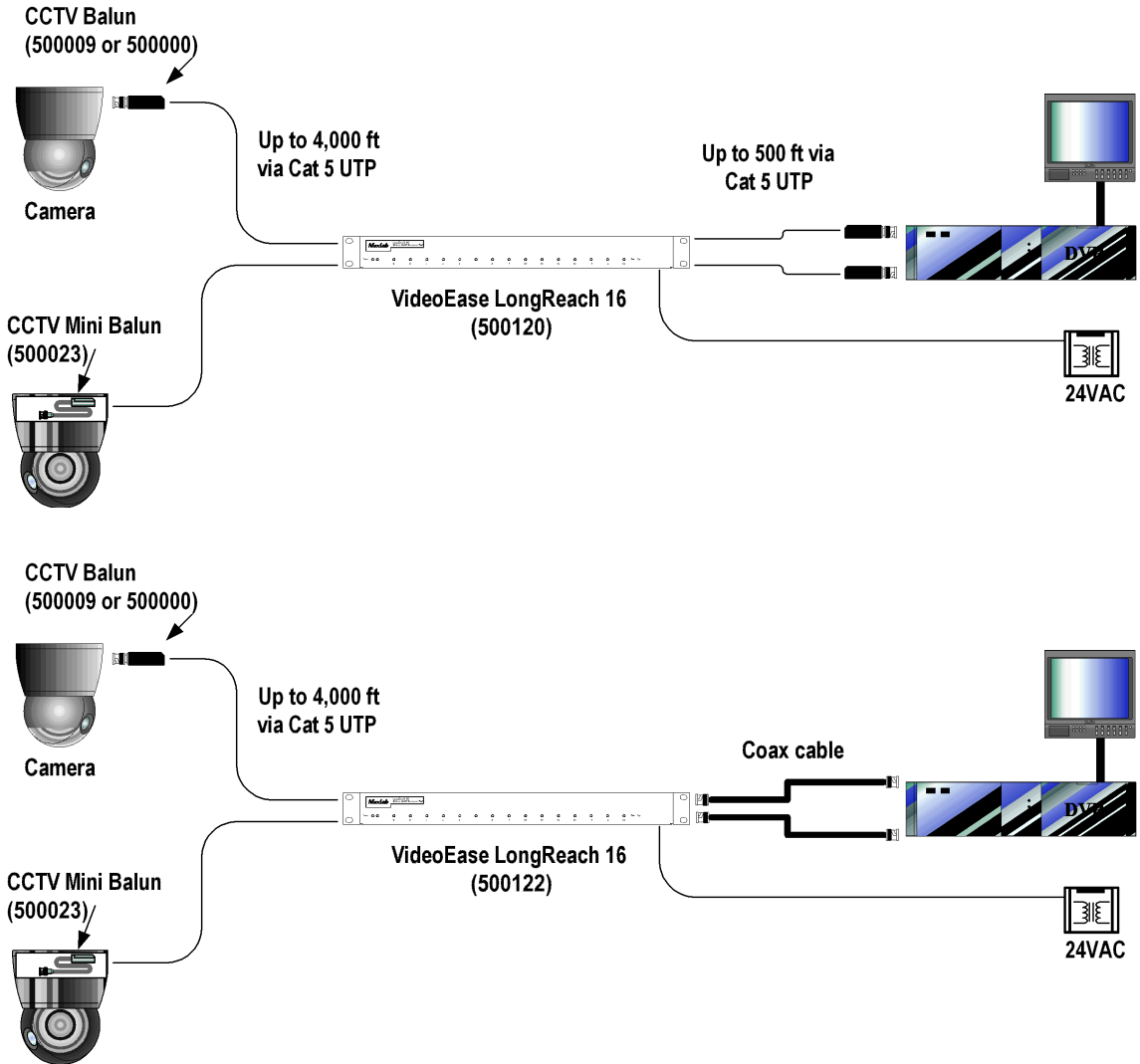
### Benefits

- Saves installation and maintenance time
- UTP/UTP version eliminates coax completely

Specifications	
<b>Environment</b>	CCTV equipment for security and surveillance. RS-343 (RS-170) NTSC, PAL
<b>Devices</b>	CCTV cameras, DVR, IP camera encoders, monitors, switchers, multiplexers and other CCTV equip.
<b>Transmission</b>	Transparent to the user
<b>Bandwidth</b>	DC to 4.5 MHz.
<b>Input</b>	1.5 Vp-p max, 100Ω, balanced
<b>Output</b>	1.1 Vp-p, ± 1 dB, 75Ω, unbalanced
<b>Insertion Loss</b>	-14 dB minimum for luma, -60 dB minimum for chroma. Determined by Automatic Gain Control.
<b>Return Loss</b>	Greater than 15 dB over the frequency range
<b>Common Mode Rejection Ratio</b>	Greater than 40 dB @ 3.85 MHz
<b>Maximum Distance via Cat 5/6 UTP*</b>	NTSC: Camera to Hub: 4,000 ft (1,219m); Hub to DVR: 500 ft (152m). Total: 4,500' (1,371m) PAL: Camera to Hub: 3,000 ft (914m); Hub to DVR: 350 ft (107m). Total: 3,350' (1,021m). *Longer distances may be achieved when connected directly to a CCTV monitor.
<b>Auto Gain Control (AGC)</b>	Automatic Gain Control for sharpness and luminosity.
<b>LED Indicators</b>	Power: One (1) green LED. Video Sync: Sixteen (16) green LEDs.
<b>Cable – UTP</b>	24 gauge 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 – BNC</b>	Impedance: 75 ohms at 1 MHz (RG59/U or RG6).
<b>Connectors*</b>	Video Input from cameras: Sixteen (16) 2-pole screw terminals Video Output to DVR: Sixteen (16) 2-pole screw terminals or sixteen (16) BNC-F Ground: One (1) chassis ground lug
<i>*reverse polarity sensitive.</i>	
<b>Compatible Baluns/Hubs</b>	500000, 500000R, 500009, 500021, 500022, 500023, 500024, 500100, 500101, 500132, 500130, 500133
<b>Power Consumption – Max.</b>	40W RMS max. @ 24VAC RMS typical (floating; +15%, -10%)
<b>Power Transformer Included</b>	North America: 110V/24VAC/60VA. Europe: 220-240/24VAC/70VA
<b>Video Ground Loop Isolation</b>	± 50V max permanent voltage. ±100V max surge for 3 secs
<b>Fuse Rating</b>	3A
<b>Temperature</b>	Operating: 0° to 40°C. Storage: -20° to 85°C. Humidity: up to 95% non-condensing
<b>Enclosure</b>	Black
<b>Mounting</b>	Rackmount (factory default). Removable brackets for wallmount or desktop installation. Rubber stand-offs included for desktop installation.
<b>Dimensions</b>	19" x 8.6" x 1.75" (48.3 x 21.7 x 4.4 cm)
<b>Weight</b>	4.6 lbs (2.1 kg)
<b>Regulatory</b>	FCC and CE
<b>Warranty</b>	1 year
<b>Order Information</b>	500120 LongReach 16 Active CCTV Receiver Hub, UTP/UTP, 110V/24VAC 500121 LongReach 16 Active CCTV Receiver Hub, UTP/UTP, 220-240V/24VAC 500122 LongReach 16 Active CCTV Receiver Hub, UTP/Coax, 110V/24VAC 500123 LongReach 16 Active CCTV Receiver Hub, UTP/Coax, 220-240V/24VAC

# VideoEase LongReach 16 Active CCTV Receiver Hub 500120, 500121, 500122, 500123

## Typical Application



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