

**Overview**

The LongReach Active CCTV Receiver Balun provides extended distance between the CCTV camera and the DVR or multiplexer via copper twisted pair cable.

The LongReach features Automatic Image Adjustment for picture brightness, sharpness and contrast, thereby helping to reduce on-site service calls. The LongReach supports up to 5,000 ft (1,5 km) via Cat5e/6 twisted pair cable when used in conjunction with MuxLab's full range of CCTV baluns.

**Applications**

Campus, highways, airports, hotels, casinos, commercial complexes, remote parking lots, entry gates, self-storage, hospitals, car dealerships, prisons

**Benefits**

Plug-and-forget - eliminates service calls  
Eliminates fiber, coax and active transmitters  
For extended distance or marginal installations



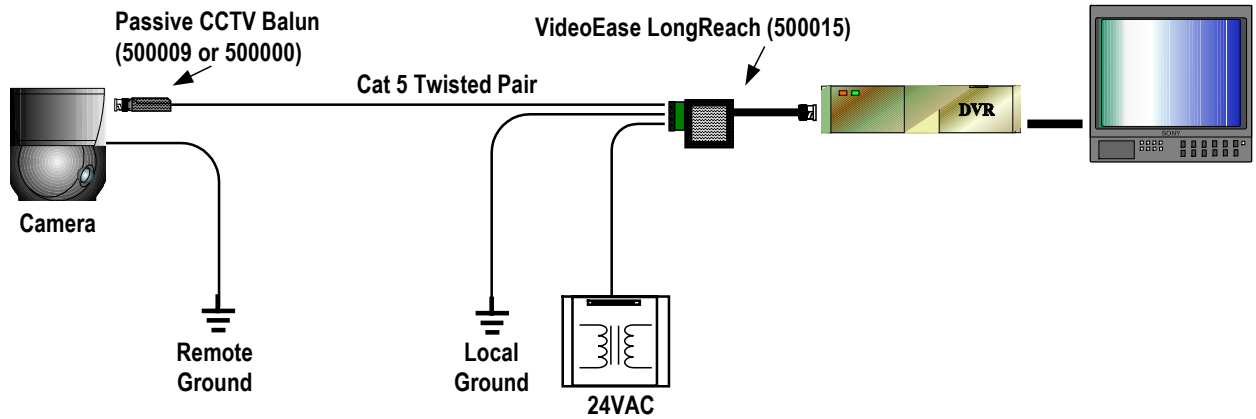
**Features**

- Up to 5,000 feet (1,524m) via Cat5e/6
- Supports NTSC and PAL
- Automatic Image Adjustment
- Requires 24VAC (not supplied)
- Ground Loop Blocking
- Voltage Surge Protection
- Auto-resettable fuse
- LEDs for power, video and ground loop fault
- Connects directly to DVR, multiplexer or switcher
- Works with other MuxLab CCTV baluns
- Cable strain relief

Specifications	
<b>Environment</b>	CCTV equipment for security and surveillance. RS-343 (RS-170) NTSC, PAL
<b>Devices</b>	CCTV cameras, monitors, DVR, switchers, IP encoders, 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 Dist. Color or B&amp;W</b>	Category 5 UTP: NTSC: 5,000 ft (~1.5 km) . PAL: 4,000 ft (~1.2 km)
<b>Image Adjustment</b>	Automatic Gain Control for sharpness and luminosity
<b>LED Indicators</b>	Green (Dim): Power. Green (Bright): Video Signal and AC power. Red: Ground Loop Fault
<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>Input Connectors</b>	Video: Two (2) screw terminals; <i>reverse polarity sensitive</i> . Power: Two (2) screw terminals. Ground: One (1) screw terminal
<b>Output Connector</b>	Video: Male BNC with 5" coax lead.
<b>Power (not supplied)</b>	24V (AC or DC) floating +/- 20%, 110 mA RMS typical, 3W RMS max.
<b>Video IN/OUT Surge protection</b>	± 1.5 V max permanent voltage positive or negative pulse, 3 V max. 1 ms.
<b>AC/DC power surge protection</b>	Above 30VAC RMS or 42 VDC.
<b>Built-In Fuse Protection</b>	Auto-resetting upon power off. <i>Not user serviceable</i> .
<b>Temperature</b>	Operating: 0° to 40°C. Storage:-20° to 85°C. Humidity: up to 95% non-condensing
<b>Enclosure</b>	Black - fire retardant plastic
<b>Mounting</b>	Velcro™ pad for optional surface mounting
<b>Dimensions</b>	2.40" x 2.25" x 1.0" plus 5" coax lead
<b>Weight</b>	3.26 oz (93 gms)
<b>Regulatory</b>	FCC and CE.
<b>Warranty</b>	1 year
<b>Order Information</b>	500015 LongReach Active CCTV Receiver Balun

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## Typical Application



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**MuxLab**

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