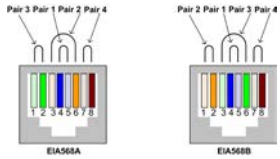


Specifications

Environment	PoE CCTV IP
Devices	PoE CCTV IP cameras with a 10/100Mb/s Ethernet port, using up to 15.4 Watts.
Transmission	Transparent to the user
Standard supported	Ethernet side: IEEE 802.3 10BaseT, IEEE 802.3U 100Base-TX IEEE 802.3af compatible PoE (on camera side only)
PoE Power	Class 3
Connectors	One (1) BNC 75 Ohms. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair.
LED Indicators	Power, IP Traffic, 100MBps
Throughput	Unidirectional Mode: 100 Mbps downstream and 1 Mbps upstream Bidirectional Mode: 60 Mbps downstream and upstream
Maximum Distance	RG59/RG6: Up to 3281 ft (1000m) @ 100Mbps UTP Cat 5e/6: Up to 330 ft (100 m) <i>Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i>
RJ45 Pin Configuration <i>Reverse Polarity Sensitive. Use EIA/TIA 568A or 568B straight-through wiring.</i>	RJ45 Link Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T) 
Cable	UTP/STP: One (1) Cat 5e/6 or better twisted pair cables required RG59/RG6: 75 Ohms (avoid CCS cable)
Power Supply	One (1) 110-240V/24VDC 2.7A.
Power Consumption	Network Side: 1.82 Watt Camera Side: 1.73 Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Metal
Accessories	Wall-mount brackets included
Dimensions	4.37" x 2.95" x 0.99" (110 x 75 x 25 mm)
Weight	2 lb (0.91 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500114-US CCTV IP PoE Extender Kit, 1Km, US 500114-UK CCTV IP PoE Extender Kit, 1Km, UK 500114-EU CCTV IP PoE Extender Kit, 1Km, EURO



8495 Dalton Road, Mount Royal, Quebec, Canada. H4T 1V5
Tel: (514) 905-0588 Fax: (514) 905-0589
Toll Free (North America): (877) 689-5228
E-mail: videoease@muxlab.com URL: www.muxlab.com



LongReach CCTV IP PoE Extender Kit, 1Km 500114 Quick Installation Guide

Overview

The LongReach CCTV IP PoE Extender Kit, 1Km (500114) allows one IP camera (15.4 Watts) to be connected up to 3281 ft (1000m) via a single 75-ohm coax cable in a point-to-point configuration. The maximum distance depends on the grade and quality of coaxial cable.

Applications

CCTV IP surveillance

Installation

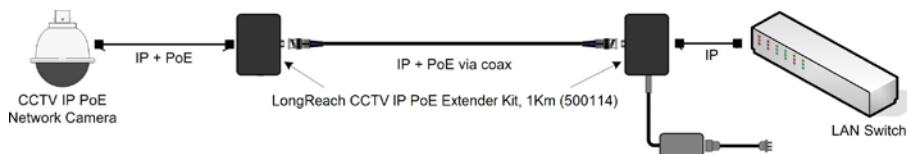
1. Identify the connectors on the Extenders as indicated on the product labels.



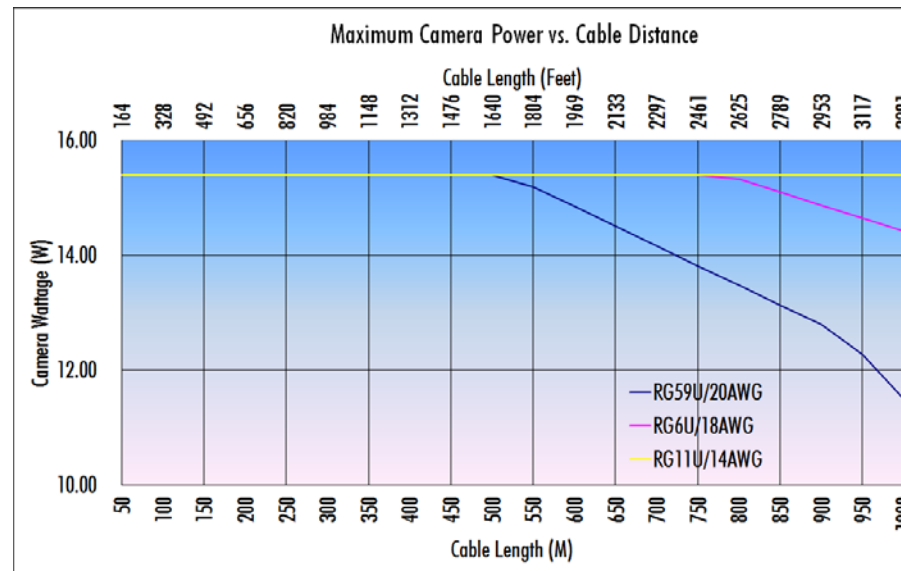
2. Attach the surface-mount brackets if required as shown below.



3. Verify that the distance between the CCTV IP PoE extenders is within MuxLab specifications (see Specifications table).
4. To install the Network Side Device:
 - 4a. Connect the extender to the PoE Ethernet Switch with a UTP Cable.
 - 4b. Connect one (1) length of RG59 or RG6 coaxial cable to the COAX LINK connector on the Extender.
5. To install the Camera Side Device:
 - 5a. Connect the extender to the camera with a Cat5e/6 cable.
 - 5b. Connect one (1) length of RG59 or RG6 coaxial cable to the COAX LINK connector on the Extender.
6. Connect the 24VDC Power supply to the network side device first, and then plug the power supply into an AC power outlet. If power is present, the green power LED of the Network and Camera side device will be ON.
7. Power on the equipment and verify the image quality. The following is a diagram of a typical configuration.



Tables



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in respect to the installation of the LongReach CCTV IP PoE Extender Kit, 1Km:

Symptom	Network Side LEDs		Camera Side LEDs		Probable Cause	Possible Solutions
	Power	IP Traffic	Power	IP Traffic		
No Image	OFF	OFF	OFF	OFF	No power	• Check the power connection.
No Image	ON	OFF	OFF	OFF	Coaxial Cable	• Check the coaxial cables.
No Image	ON	OFF	OFF	OFF	Distance	• Check the coaxial cables length and quality.
No Image	ON	OFF	ON	OFF	UTP Cable	• Check the UTP Cable pin out.
No Image	ON	ON	ON	ON	No Traffic	• Check network configuration.
Choppy Image	ON	BLINK	ON	BLINK	Distance	• Check cable length • Check the coaxial cable quality.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).