LOREX 393ACVRC ACVTR Transmitter Owner's Manual

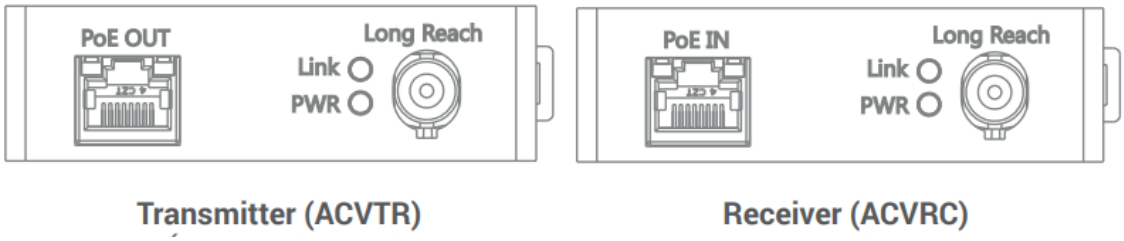
393ACVRC ACVTR Transmitter
Owner's Manual

Contents

393ACVRC ACVTR Transmitter

Coaxial-to-Ethernet Converter
ACVRC & ACVTR Series
Quick Start Guide

Package Contents



Safety Precautions

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses:

- Do not expose the device to lampblack, steam or dust. Otherwise, it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise, it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warnings

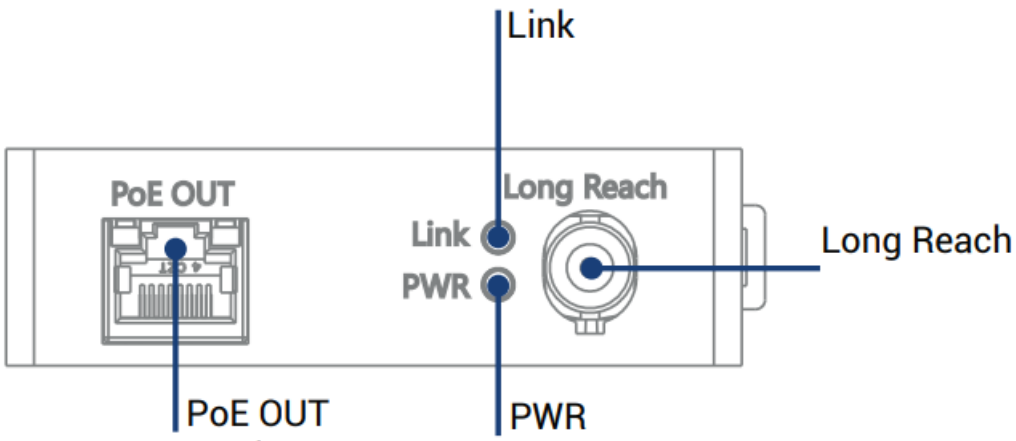
Do not use power line other than the one specified. Please use It properly. Otherwise, it may cause fire or electric shock.

Disclaimers

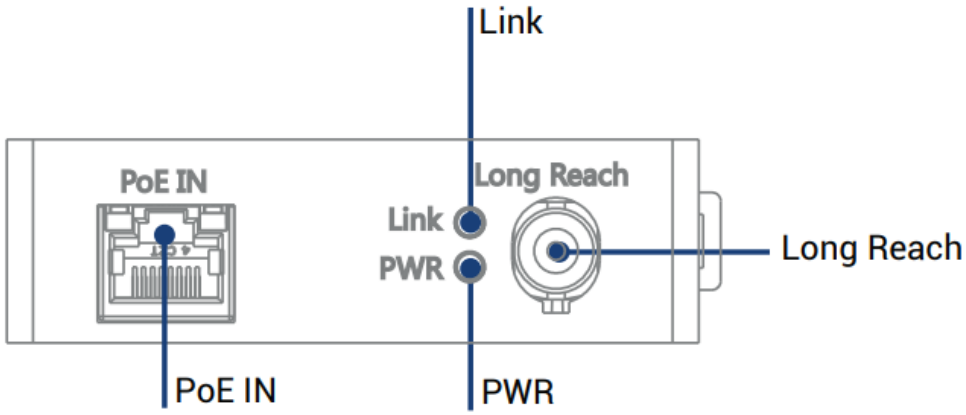
- This manual is for reference only
- All the designs and software here are subject to change without prior written notice
- All trademarks and registered trademarks are the properties of their respective owners
- The function of the ITE being investigated to EN 62368-1 is considered not likely to require connection to an Ethernet network with outside plant routing, including campus environment
- The installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant

Product Overview

Transmitter

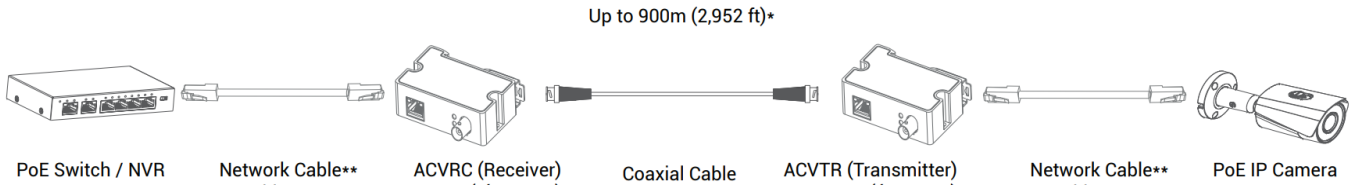


Receiver



Name	Function
PoE OUT	PoE output port
PoE IN	PoE input port
Link	BNC port Link indicator light E100: On for 3 seconds, off for 1 second E10: On for 1 second, off for 1 second
PWR	Power indicator light
Long Reach	Coaxial cable port

Setup

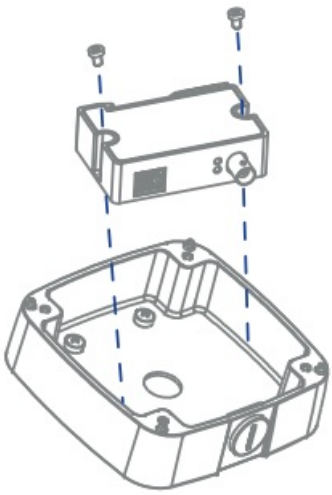


* Performance and supported length are subject to transmission coaxial cable and coupler quality.
** Use a solid wire Cat5e/Cat6 network cable (not included)
PoE Switch, NVR, camera, network cables and coaxial not included.

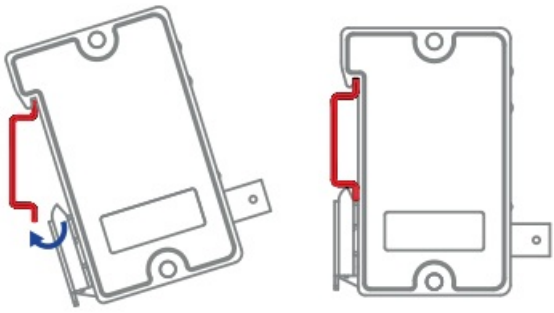
Mounting

Optional

The Coaxial-to-Ethernet Converter supports two installation modes: junction box or it can support DIN rail mount (not included). Refer to the junction box manual for installation instructions. Note: Supports slide width of 28mm (1.1”).



Supports slide width of 28mm (1.1”).



Product Description

The Coaxial-to-Ethernet Converter is a type of converter from RJ45 to BNC port, which supports long range power supply transmission via coaxial cable. It provides one BNC coaxial port and one RJ45 port. The product is equipped with two transmission modes which are 100 Mbps and 10Mbps. It can be modified according to the transmission distance.

Features

- Supports IEEE802.3, IEEE802.3u and IEEE802.3X standards.
- Supports IEEE802.3af and IEEE802.3at power supply standards.
- Port: 1 x RJ45 10/100Mbps, 1 x BNC.
- Supports RG59 coaxial cable: 400m/1 OO Mbps, 1000m/10Mbps.
- Supports MDI/MDIX self-adaption.
- Supports long range power supply transmission via coaxial cable.
- Operating temperature: -30-65°C.

PoE Power Supply Specifications (RG59 Coaxial Cable)

Cable Length (m)	Communication Bandwidth (Mbps)	PoE Max Load Capacity (W)	Ne
100	100	21	
200	100	15	
300	100	11	
400	100	9	
500	10	7	
800	10	5	
1000	10	4	

ePoE switch supply voltage 48V. / RG-59, max. DC resistance < 5 Q / 100m (328 ft).

Caution: The load capacity can be applied to networking scheme 3. Cable length means the total wire length from switch to transmitter (including network cable and coaxial cable). It can use max. 2m network cable to connection transmitter to IPC.

Cable Length (m)	Communication Bandwidth (Mbps)	PoE Max Load Capacity (W)	Ne
100	100	25.5	
200	100	24	
300	100	19	
400	100	16	
500	10	13	
800	10	8	
1000	10	6	

ePoE switch supply voltage 53V. / RG-59, max. DC resistance < 5 Q / 100m (328 ft).
Caution: The load capacity can be applied to networking scheme 3. Cable length means the total wire length from switch to transmitter (including network cable and coaxial cable). It can use max. 2m network cable to connection transmitter to IPC.

Need Help?
For up-to-date information and resources:

1. Visit help.lorex.com
2. Click on our product in the search results
3. Click or your product in the search results
4. Click on the Downloads tab

Register your product
Please see our full Terms of Service and Limited Hardware Warranty Policy at: **lorex.com/warranty**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Coaxial to Ethernet Converter for PoE Cameras

This product is divided into the transmitter (ACVTR) and receiver (ACVRC). Designed to work as a type of converter from RJ45 to BNC port, which supports long-range power supply transmission via coaxial cable adding convenience to expand your network security system. It provides one BNC coaxial port and one RJ45 port. For a reliable connection, this is equipped with two transmission modes that are 100Mbps and 10Mbps. Stay connected and be able to modify the transmission distance.

- Supports IEEE802.3, IEEE802.3u standards
- Support data line (1, 2, 3, 6) PoE power supply
- Port: 1*RJ45 10/100Mbps, 1*BNC
- Supports RG59 coaxial cable: 400m/100Mbps,1000m/10Mbps
- Supports MDI/MDIX self-adaption.
- Supports long range power supply transmission via coaxial cable*

Specifications

Function Port	1*10/100 Mbps Base-TX, 1*BNC
Power Consumption	<2W
Transmission	RG59 coaxial cable:
Bandwidth	400m/100Mbps, 1000m/10Mbps
PoE Protocol	48V Passive PoE (Pairs 1, 2+; 3, 6 Return)
Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
Lightning Protection	Common Mode 4KV Differential Mode 2KV
Operating Temperature Operating Humidity	–30°C to 65°C (–22°F to 149 °F)
Weight	5%–95%
Dimension (W×D×H)	61 g (0.13 lb)
	79 mm × 52 mm × 23 mm

Model Information

ACVTR ACVRC	Ethernet Over Coax Transmitter Ethernet Over Coax Receiver	6-95529-05059-1 6-95529-05060-7

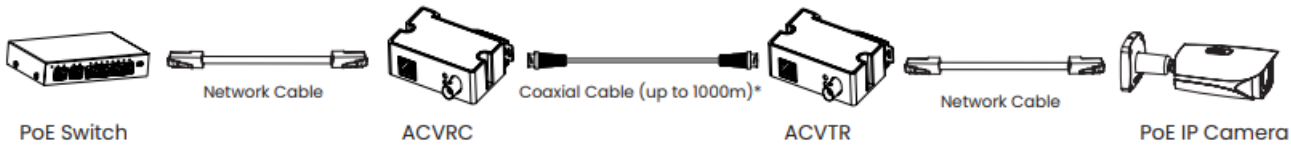
Package Dimensions

Package Package Weight Package Dimensions (W × D × H) Package Cube	Plain Box 0.31 lb / 0.14 kg 4.5 × 3.1 × 3.0” / 115 × 80 × 78mm 0.02 lbf / 0.0007 dbm

Take RG59 as an example (Max. DC resistance < 5.0Ω/100m)

	ACVTR/ACVRC	Supports with 48V
100m 200m 300m 400m 500m 800m 1000m	Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W) Bandwidth (Mbps) Load Capacity (W)	100 21 100 15 100 11 100 9 10 7 10 5 10 4

Diagram



The number of ACVRC connected to the same switch cannot exceed 8.
*Performance and transmission speed are subject to coaxial cable quality and coupler quality.

Regulatory Information

The regulatory information herein might vary according to the model you purchased. Some information is only applicable for the country or region where the product is sold.

FCC Information

⚠ CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

FCC conditions:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

• This device may not cause harmful interference.

• This device must accept any interference received, including interference that may cause undesired operation.

FCC compliance:

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication.

- For class A device, these limits are designed to provide reasonable protection against harmful interference in a commercial environment. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- For class B device, these limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radiorrv technician for help.

Declaration of Conformity UKCA

UK CA

This device complies with UKCA relevant directives and standards.
UK Declaration of Conformity (DoC) can be downloaded from: **https://www.lorex.com/pages/ukca-compliance**
Lurex Technology UK Limited
1 Georges Square, Bath Street, Bristol, United Kingdom, BS1 6BA.

Battery Replacement and Disposal

Applicable to products with battery.

⚠ **CAUTION**

Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact For full FCC compliance declarations, visit **https://www.lorex.com/pages/fcc-compliance**

SCAN TO SEE QUICK START GUIDE.

help.lorex.com/supportpage

LOREX.
Thank you for purchasing a Lurex product.
Warranty

Scan to see our full Terms of Service and Limited Hardware Warranty Policy.

lorex.com/warranty

Documents / Resources

	LOREX 393ACVRC ACVTR Transmitter [pdf] Owner's Manual 393ACVRC ACVTR Transmitter, 393ACVRC, ACVTR Transmitter, Transmitter

References

- Lorex Technical Support | LOREX Support
- Security Cameras - Home Security Camera Systems | Lorex
- Security Cameras - Home Security Camera Systems | Lorex
- Lorex Limited Warranty - Exceptions, Obligations | Lorex

- FCC-compliance
- UKCA Compliance | Lorex
- User Manual