

# EOC1C1E-3 Coaxial-LAN Converter User Manual



## Chapter 1, Introduction

### 1.1. Technology Introduction

Based on the latest IEEE 1901 technology to support high-definition video and high-speed transmission of data signals in a variety of media, such as coaxial cable and telephone lines. Has a long transmission distance, high-speed communications, multimedia services, network support, etc.

### 1.2. Indication Lights

#### Equipped with two LED indicators

Coaxial: physical link connection indicator for the coaxial cable, twisted pair link connectivity when the indicator is on the line, please check if the light is off the transmission line.

LAN: Ethernet Link / Activity LED: When an Ethernet connection has been established, the indicator light, Ethernet connection when there is data activity, the indicator flashes.

### 1.3. Configuration button

The master/slave selection of communication link. The buttons for the wave of the key switch, when the switch to the left position, the device is configured as a master device (Slave); when dial to the right position, the device must be configured as a slave device (Master). In one network, there is just a master device, but there are multiple slave devices.

### 1.4. Key Features

1. Networking: Support over 20 IP cameras, control, alarm devices over single coaxial cable.
2. Transmission Span: The maximum transmission span is 2,000 meters. With such a long span, it helps to simplify cable installation. The maximum transmission speed is 30Mbps@2,000meters.
3. High performance: Support multiple HD video streams over single coaxial cable.
4. PoC(power over cable): IP camera can be powered over same coaxial cable—no external AC/DC power adapter requested any more. Power supply 40W@500meters(Optional)
5. Flexibility: Easy to add new nodes into system without re-installing or modifying any devices under use.
6. Safety Ability: Support AES-128 Safety with password. Support manufacturer and user checking the code, changing the connection password in real time.
7. Easy migration from analog to IP system with existing coaxial, power line, phone line and twisted pair cable.

## Chapter 2, Installation Introduction

### 2.1. Appearance

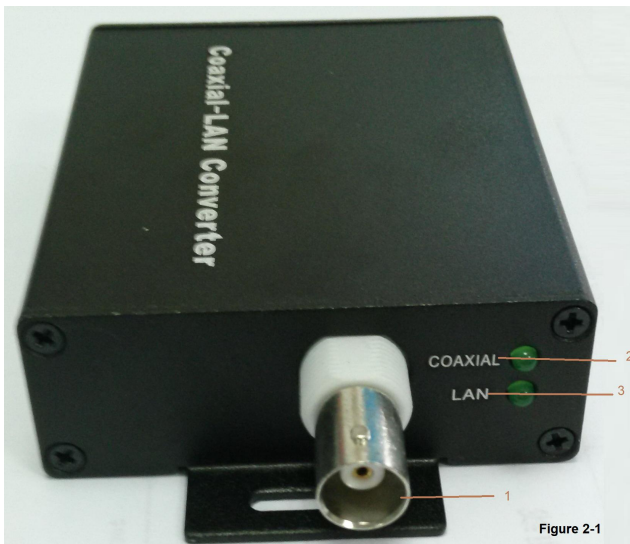


Figure 2-1

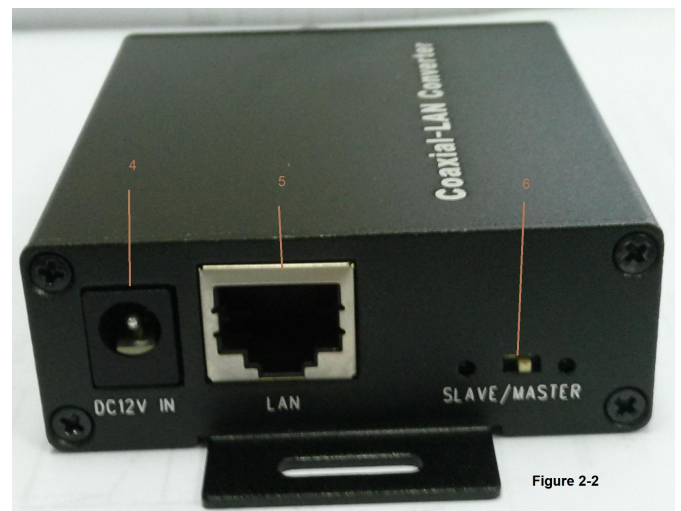


Figure 2-2

No.	Name	Introduction
1	BNC Port	Coaxial input/output BNC port
2	Coaxial LED light	Physical link connection indicator for the coaxial cable, twisted pair link connectivity when the indicator is on the line, please

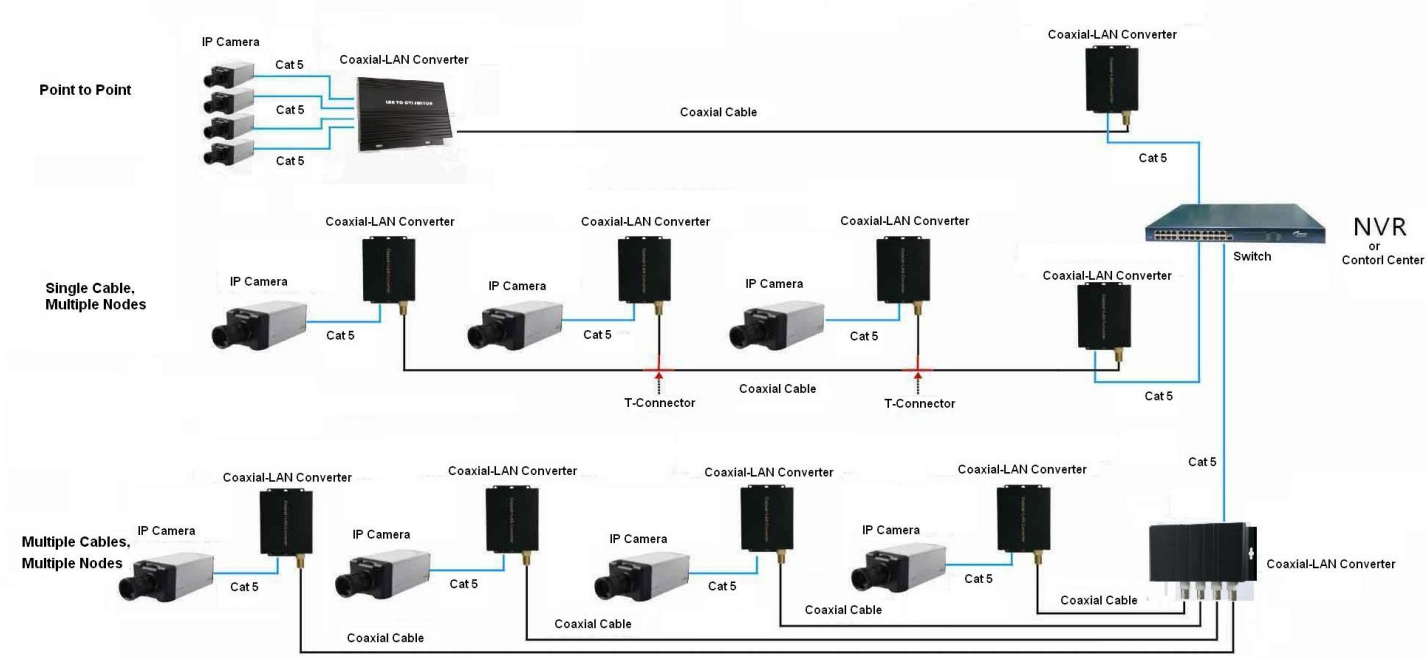
		check if the light is off the transmission line.
3	LAN LED light	LAN: Ethernet Link / Activity LED: When an Ethernet connection has been established, the indicator light; Ethernet connection when there is data activity, the indicator flashes.
4	Power supply input	DC 48V-56V 1A, positive outside and negative inside
5	RJ45 interface	Connect to the LAN
6	Master/Slave switch	Communication link control master /slave selection.

## 2.2. Specifications

Model	EOC1C1E-3
Operating temperature	-20 °C- 40 °C
Relative humidity	5% ~ 95%, non-condensing
Maximum power consumption	1.6W
Power supply	12DC/48-70VDC
Size	110*65*25mm
Wide Receiver port	RJ45*1, BNC*1

## 2.3. Installation Networking Indicate

In the following figure, the cable easily pass "coaxial input / output port" connected via coaxial cable to form a progressive cascade mode. In order to ensure signal integrity and transmission reliability, add to a 75-ohm broadband of each cable head and tail for matching network matches as a terminal.



## 2.4 Power Supply

When using an external power supply, can be entered directly through the 12VDC power supply jack in Figure 2.2, is a communication device controller power supply. As a result of low-power design, the maximum power consumption of communications equipment 2.2W. External power supply capacity requirements 12VDC/0.3A, voltage range of 12V ± 10%.

## Chapter 3, Networking

### 3.1. One pair of networking

Using a pair of video signal transmission network equipment, network diagram as: Figure 3-1.

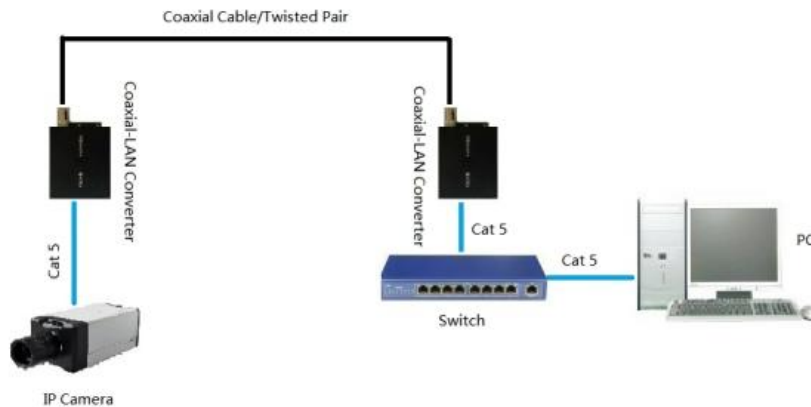
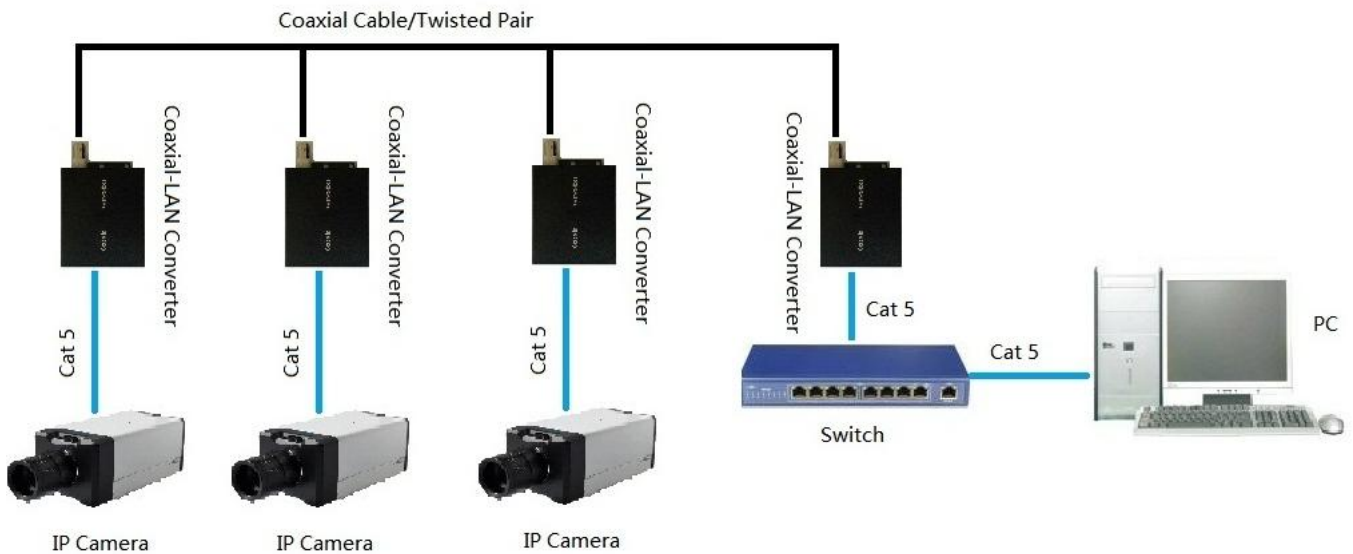


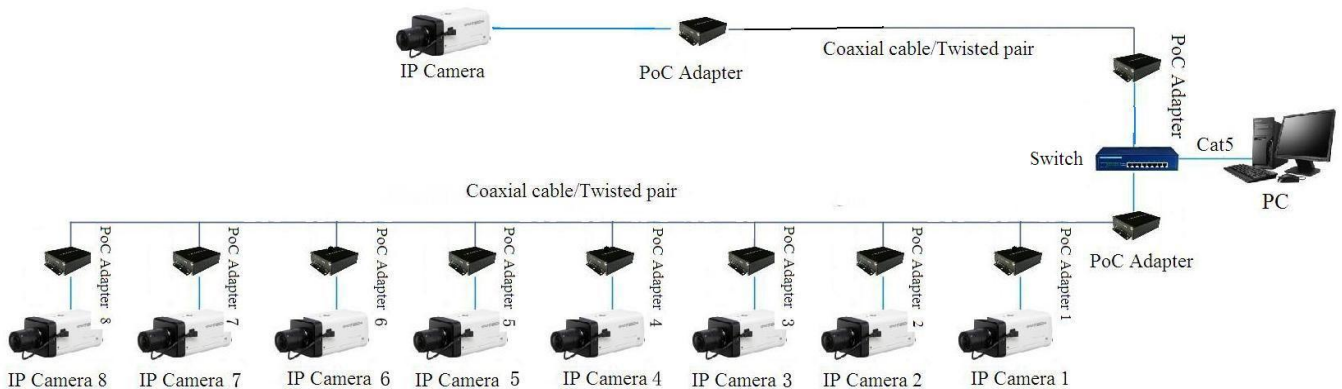
Figure 3-1

3.2 Using more than one pair of devices, multiple link network diagrams as: Figure 3-2.



**Figure 3-2**

**Note:** single coaxial / twisted pair cable link up a master device, eight slave devices.



**Figure 3-3** single cable, multiple devices hybrid network

### 3.3. Device Configuration

"Coaxial-LAN Converter" when you need to co-ordinate the communication link (i.e., the one same coaxial cable or twisted pair ) Master / Slave mode can usually has only one link in a Master, others are Slave devices..

Slide the front panel of Master / Slave switch to the corresponding mode of the device.

**Notice:** If you dial the Master / Slave switch when the device is power on, you need to power

off, and then restart.

**Thank you for purchasing our products.**

**If there are any updated information, please contact our service worker.**