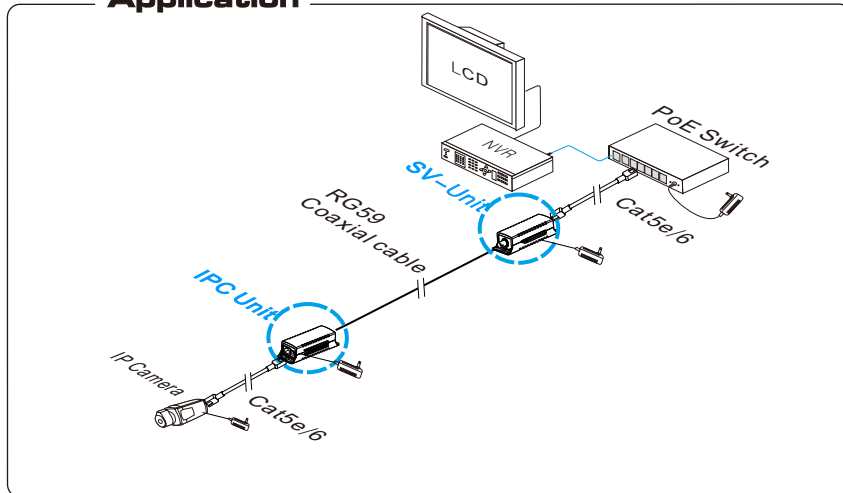


# Ethernet Extender User Manual

Ver1.1

The product is an Ethernet extender which can transfer Ethernet signal by Ethernet cable or coaxial cable. It consists of SV and IPC units. This product is specially designed to meet the long-distance HD IP transmission for security surveillance projects. This device can transfer the Ethernet signal up to 300m through the coaxial cable, But network latency is less than 20us. The structure designing of built-in splicing slot on both sides and magnetic attraction as well as hanger on the bottom enables multiple installation methods of wall-mounting, splicing and absorption. So it is a cost-effective choice for the HD network surveillance system, transmission and application of the IOT, as well as upgrading and renovating projects.

## Application



## Features

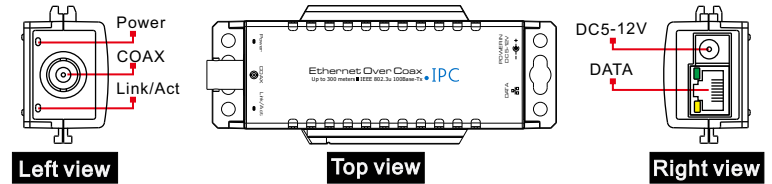
- Transfer 60Mbps bi-direction Ethernet signal via coaxial cable, And the transmission distance of Ethernet signals can up to 300m;
- Support IEEE802.3 10Base-T , IEEE 802.3u 100Base-TX standard;
- Low delay rate, less than 20us;
- Plug and play, no other software and transfer agreement needed;
- Built-in splicing slot, with magnet and hanger, unique and integrated design, splicing, desktop and wall-mounted installations available, which suits in all kinds of engineering installation.

## ! Notice

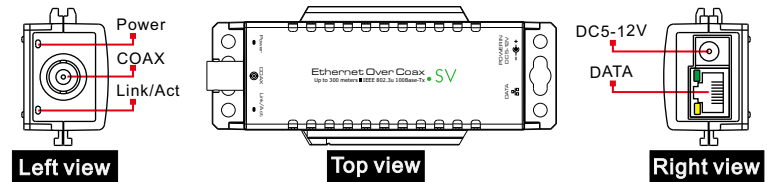
- 1) Please use RG59 or above coaxial cable and Cat5e/6 cable to reach the longest transmission distance;
- 2) Please use the standard coaxial connector to avoid abnormal display.

## Panel Diagram

### IPC Unit Device



### SV Unit Device



## Installation steps

Please check the following items before installation, if anything missing, please contact the dealer .

- Ethernet Extender( SV unit ) 1 PC
- Ethernet Extender( IPC unit ) 1 PC
- User Manual 1 PC

### Please follow installation steps as below:

- 1) Turn off the power of all related devices before the installation, otherwise the device would be damaged;
- 2) Check if the Ethernet cable and other cables are connected correctly;
- 3) The RJ45 port of SV is supposed to be connected with Ethernet switch by Ethernet cable, and the BNC port is connected by coaxial cable;
- 4) Connect the other side of coax on the BNC port of IPC. The RJ45 port of IPC is supposed to be connected with IP camera by Ethernet cable;
- 5) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;
- 6) Make sure the network is working.

## Specification

The specification parameter as below can match SV unit and IPC unit

Item		Description
Power	Power Supply	DC5~12V
Connector	Port	BNC, RJ45
	Transmission distance	Ethernet cable: 0~100m Coaxial cable: 0~300m(Recommend)
	Media	RG 59 or above coaxial cable & Cat5e/6
Network	Network standard	IEEE802.3 10Base-T ,IEEE802.3u 100BASE-TX
Status indication	Power indication	Yellow on: Power connection is OK
	Data indication	Green on: Data connection is OK
	RJ45 indication	Green flicker: Data transmission is OK; Yellow on: Power is OK
Protection	ESD	Level III Contact discharge Level III Air discharge Execute: IEC61000-4-2
	Lightning protection	Level III Execute: IEC61000-4-5
Operating Environment	work temperature	-10°C~55°C
	Storage temperature	-40°C~85°C
	Humidity(Non-condensin)	0~95%
Mechanics	Dimension ( L × W × H )	113mmX45.5mmX29mm
	Material	ABS
	Color	Black
	Weight	SV unit: 58g IPC unit: 58g

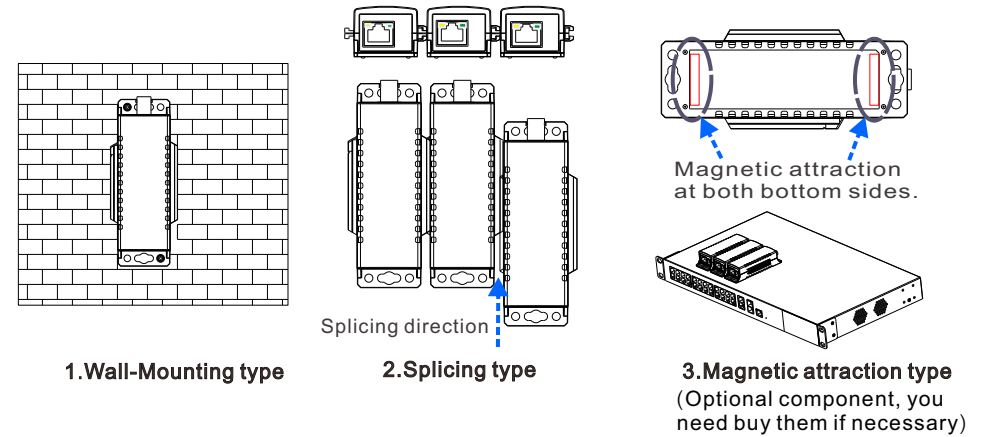
Specifications are subject to change without prior notice.

## Troubleshooting

If any trouble in installation, please follow these steps:

- Please make sure you have followed the instruction to install the device;
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- The transmission distance depends on the signal source and cable quality, please do not exceed the maximum transmission distance;
- Please replace a failure device with a proper one to check if the device is broken;
- If the problem still exists, please contact the dealer.

## Installation method



## Network cable collating

