

IP/ PoE Extender

# User Manual

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Model : 800924

Chainable IP & Power over Coaxial/Two Wire Extender



## Introduction

800924 is an IP Extender that can send IP signal and power over coaxial, telephone line, antenna cable, or bell wire cables, with transmission distance up to 500M. With item 800924, you're able to change your analog cameras with IP ones without replacing existing cable. The extender can be also chainable with up to 4 IP cameras, which can send multiple videos at once. <br>It is an ideal solution for warehouses, parking lots, campuses, casinos and many more..

## Features

- Signal extension up to 1500M over coaxial cables
- Bandwidth up to 100Mbps
- Provides DC12V 1A power for remote IP devices..



## Connection Diagram

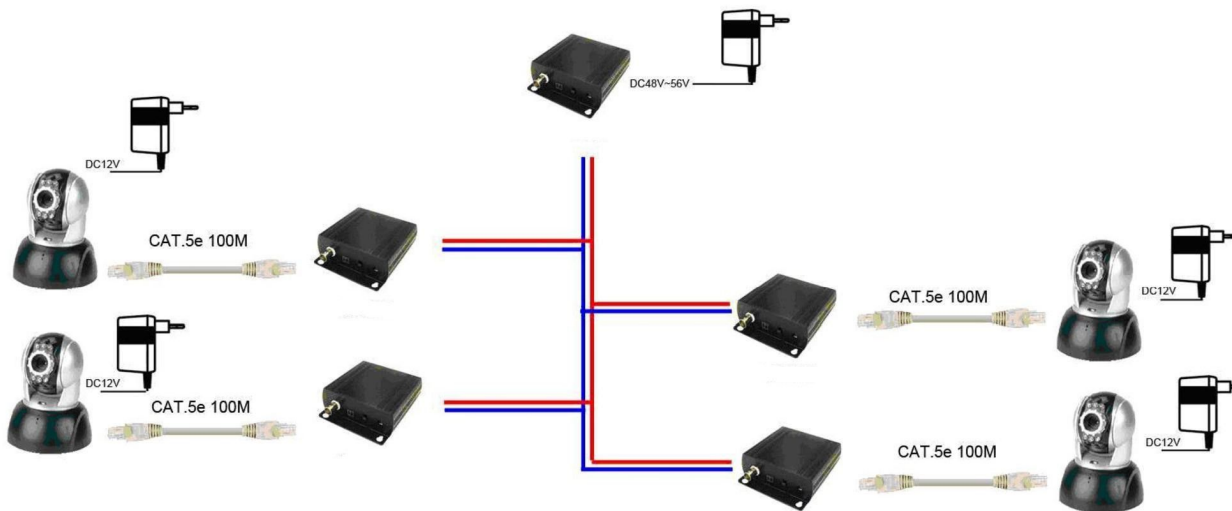
### One Camera Point to Point Application



## Four IP camera Series Application



## Four IP camera Star configure Application



## Four IP camera Circle configure Application



### Different Coax/ Two Wire Cables Distance Chart for Reference:

Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of Data and the Power output.

Power Input DC 24V		
CABLE	Distance (Max)	Data Rate / Mbps
Telephone cable (0.65mm)	200-400M	74
UTP cable(CAT.5e)	600M	51
Coax Cable (RG59U)	500M	72
Coax Cable(RG6U)	500M	73

Power Input DC 48V			
CABLE	Distance (Max)	Data Rate / Mbps	DC 12V Output
Telephone cable (0.65mm)	200-400M	72	500mA
UTP cable(CAT.5e)	600M	53	500mA
Coax Cable (RG59U)	300M	68	1A
	1500M	11.2	X
Coax Cable(RG6U)	500M	73	1A

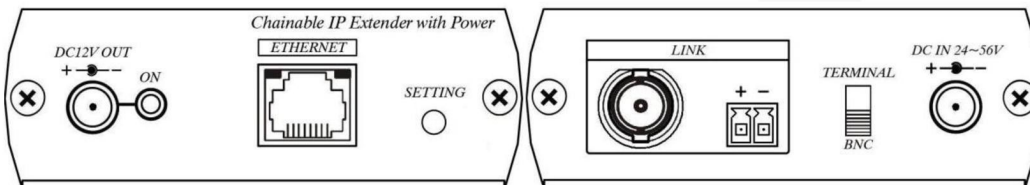
Power Input DC 56V			
CABLE	Distance (Max)	Data Rate / Mbps	DC 12V Output
Telephone cable (0.65mm)	200 ~ 400M	72	500mA
UTP cable(CAT.5e)	600M	55	1A
Coax Cable (RG59U)	500M	67	1A
	1300M	9.5	x
Coax Cable(RG6U)	700M	72	1A

❖ Recommend external power adapter must use DC 24 ~ 56V

## LED Indication

LED Indication	Status	Function
Power(Green)	ON	Power ON/OFF
RJ45 (Green/Yellow)	Green Flash	Under Linking
	Yellow ON	Linking and Data transmission

## Panel View

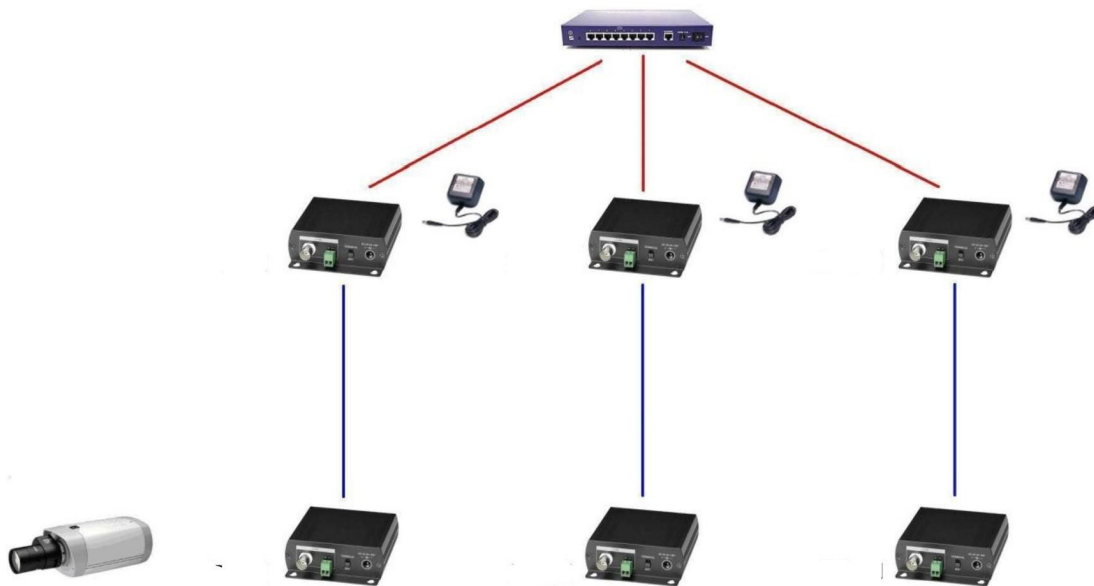


## SETTING Button Function

One set of loop wiring with maximum 5 units of 800924 as below diagram



When the installation over one set of loop wiring to switch, please make sure to setting a group in order to avoid network conflict



## Use SETTING button to setup a group

When two units need to create a group, please follow the following steps:

1. Press the SETTING button 3 seconds then release, the RJ45 yellow LED will be flashing.
2. Within one minute to press 3 seconds and release the second unit of item SETTING button, you will see the second unit RJ45 yellow LED flashing.
3. After complete the above steps, the RJ45 yellow LED become ON status that mean the group has successfully established

## Recommend cable

RG59/6U COAX cable, CAT5e/6/7 UTP cable, two wire cable, power cable.

Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of Data and the Power output.

## Slide Switch Function

BNC Use coax cable to send data and power

TERMINAL Use two wire cable to send data and power

## Caution

Using two wire installation, please pay attention the wiring polarity.

When doing series or star installation to send IP with power, the power may not to support IP camera, please add external power adapter for each unit .

Using DC 24V power source only support IP camera with power DC12V output up to 100M (Max.)

The linking Coax cable or two wire cable all carried with power.

Power output will be varied based on the power source input.

The wiring must away from any equipment with electromagnetic wave in order to avoid transmission distance become shorter, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, power lines.



## Specifications:

ITEM NO.	800924
Support	
Transmission Distance	1500M
Network Bandwidth	10/ 100Mbps
Ports & Interfaces	
Ethernet Interface	1 x RJ45
Link Interface	1 x 2-Pin Terminal Block, 1 x BNC
Power Interface	2 x (2mm) DC Jack
Power	
Power Input	DC 24 to 56V
Power Output	DC 12V
Power Consumption	7W (Max)
Ambient Temperature	
Operation	0 to 55°C
Storage	-20 to 85°C
Humidity	Up to 95%
Physical Characteristics	
Dimensions	88 x 110 x 30mm
Weight	250g

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