
HD IP Extender over Coax Cable

VCF-PE01TX/RX



Overview :

Our IP extender is designed to extend the distance over coax cable, twisted pair and telephone line up to 2000m. It apply to security link over coax technology to realize HD IP and SD IP video surveillance by utilizing existed analog system. This device is used as pair. One is transmitter, another is receiver. It is another main feature to support up to 60 transmitters parallel or series connection. So it is easy to networking. Our device realizes upgrading from analog surveillance system to HD IP surveillance easily.

Features :

- ◆ Extend HP IP signal over coax cable, twisted pair, telephone line, power cable (two wires)
- ◆ Convert network signal to analog video signal to extend transmission distance up to 2000m
- ◆ Support HD IP resolution :720P、960P、1080P HD IP and SD IP resolution .
- ◆ Max Data bandwidth: *100Mbps*
- ◆ Support Auto-networking over series or shunt connection up to 60 pieces
- ◆ Support plug and play function
- ◆ Apply to three class lightning-proof configuration

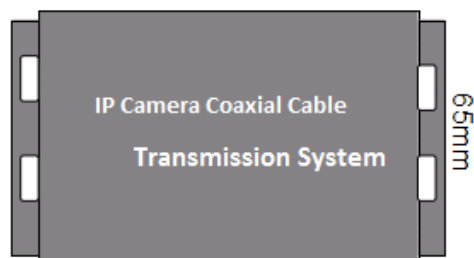
Technical specification :

Type	Transmitter	Receiver
Input	RJ-45	BNC , 75ohm
Output	BNC, 75 ohm	RJ-45
Ethernet port	RJ-45	
Max data	100M	
Standard	IEEE 802.3 10BaseT, 802.3u 100BaseTX,802.3u 100BaseFX	
Compliance	TCP/IP , Auto-learning MDI/MDIX, Auto-sense Half or full duplex	
Output--CVBS	BNC , 75ohm	
Max distance (Coax cable)	400M——92Mbps; 1000M——74Mbps; 50Mbps (twisted pair) , 40Mbps (Telephone line) ; 2000M——30Mbps	
Work temperature	-40 ℃ ~+85 ℃	
Relative humidity	0~95% (no cond)	
Storage temperature	-60℃~+100℃	
Power consumption	5W (Input: DC12V 400mA)	
Size	75 x 65 x 20 mm	
Power supply	AC85-260V/50Hz/60Hz. DC5.5V,2.1A	

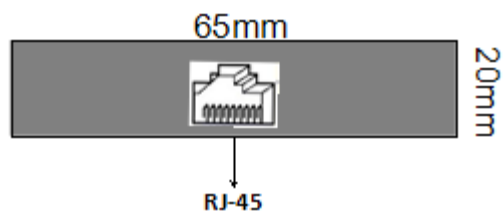
Layout

Top views:

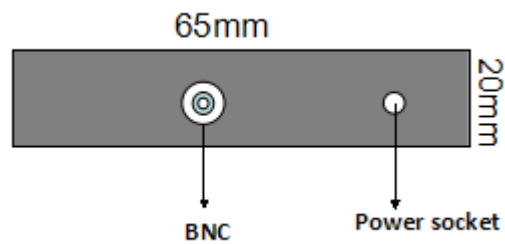
75mm



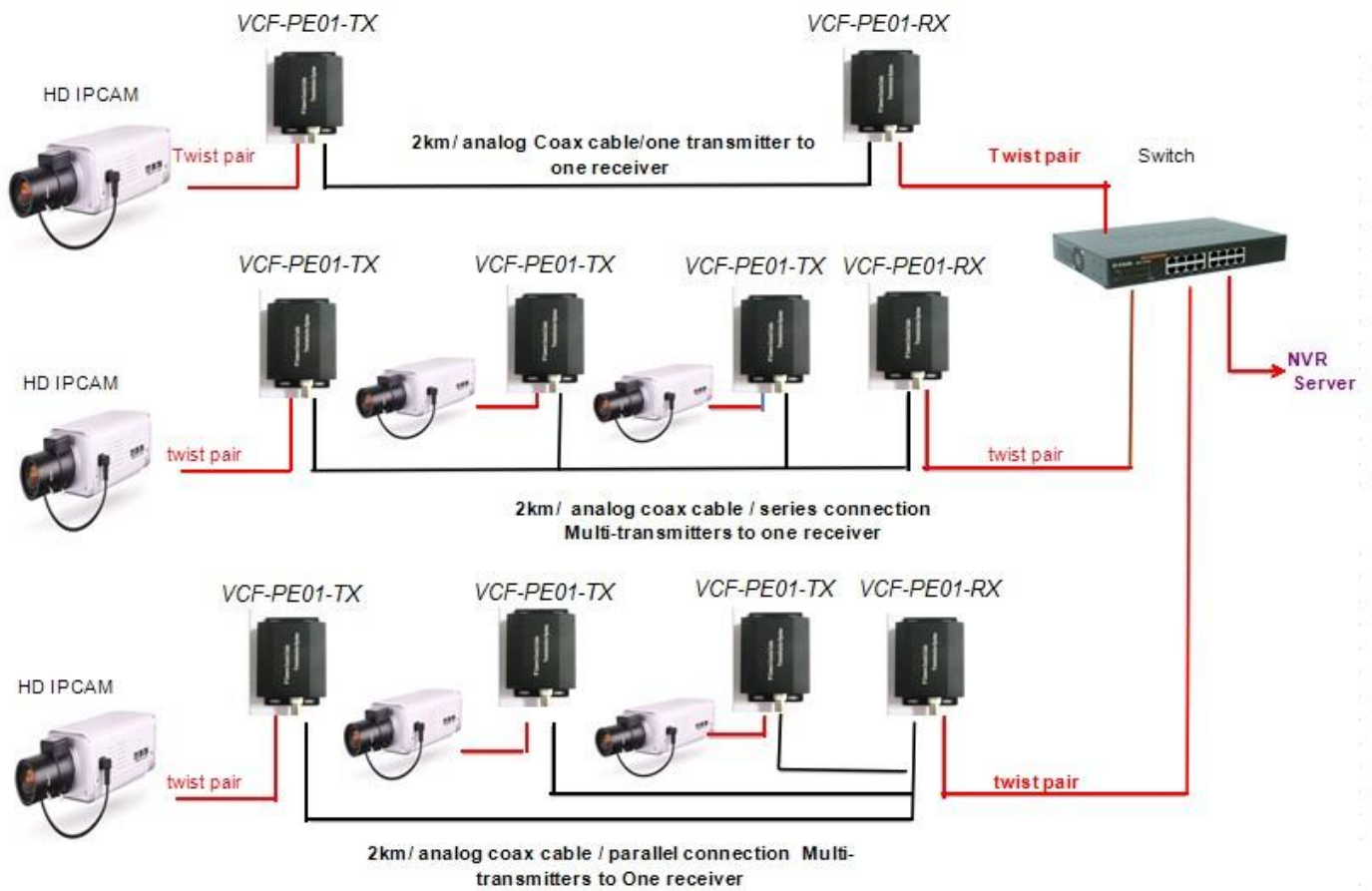
Left panel of transmitter

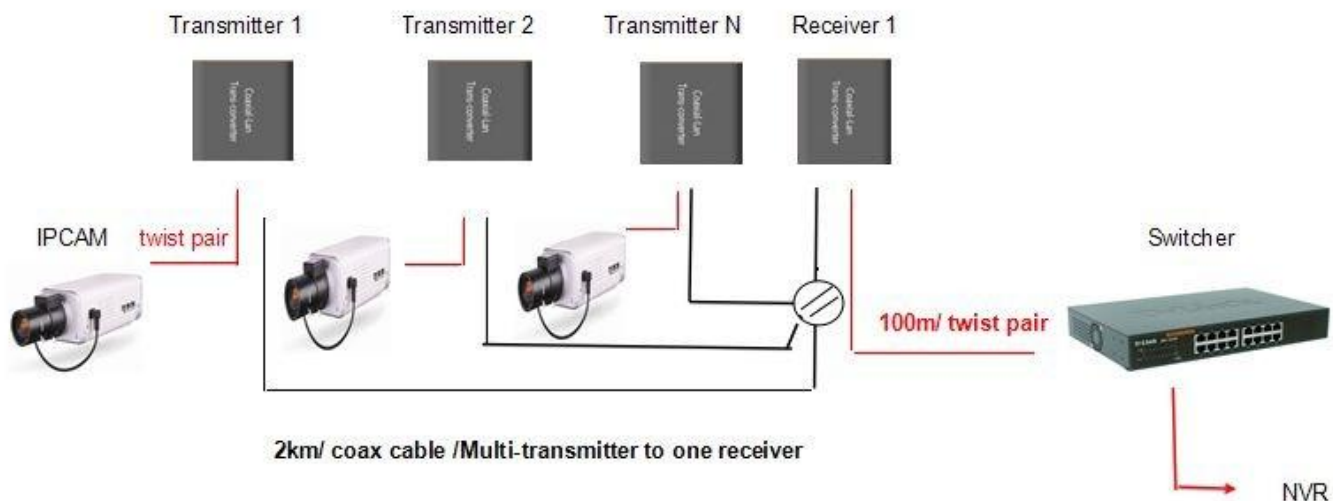


Right panel of transmitter



Typical application :





Installation---1

Caution:

Do not attempt to open the housing. There are no user-serviceable parts inside our device. Opening the unit will void your warranty.

Our IP extender over coax cable is used in pair.. One is transmitter , Another is receiver . By dip switch to decide which one is transmitter (Dip switch to slave side) and another is Receiver (Dip switch to master side)

To install our IP extender device, Please perform the following steps:

1. Turn off power and disconnect the IP video source and IP receiver device.
2. Verify that quality coax cable length and IP source' bandwidth

400M—92Mbps;

1000M—74Mbps;

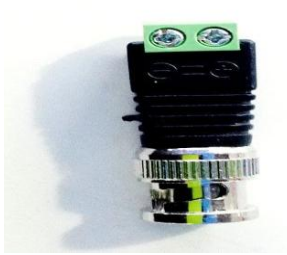
2000M—30Mbps

3. Connect the transmitter to IP source equipment (i.e IP camera , HD IP Camera ,Lan switch)
4. Connect a dedicated two wire coax cable between the source-side transmitter and the receiver-side receiver
5. Connect receiver to IP receiver equipment (i.e. NVR , LAN Switch , Network server ect)
6. Power on the devices at booth ends

Installation---2

How to transmit the network data via two wires' twist pair cable , power line ect .

It is executed by interface converter like follow pictures (BNC interface convert two wire terminal block)



Troubleshooting

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The following tables describe some of the symptoms, probable causes and possible solutions regarding our products.

Video symptom	Probable cause	Possible solution
No Video	No continuity in video link	Verify cable continuity between pairs of our products
	Power off	Check power supplies of video equipment
	Improper connection and/or swapped pair	Check the devices are connected to correct video input and outputs
Part of picture missing or intermittent . Missing frame or freezing	Exceeded distance	Verify cable length and grade , Use higher-grade cable if necessary
	Unusual link attenuation	Verify cable distance using a cable test
	EMI interference	Try turning off (or move) nearby wireless LANs, switching power supplies, radio transmission to see if problem disappear
Image not stable Noise ,incorrect color or sound	Defective source or receiving equipment	Try swapping source/monitor equipment or verify video equipment interface integrity

If you still can not diagnose the problem ,Please contact us or our agent in your country