Ourten®

Model OT-L-DSL

Ethernet Extender

Product User Manual

OT-L-DSL Ethernet Extender is a network signal extension device, which consists of remote unit and local unit.

It transmits network signal over 2-wire such as Cat5, telephone line or coaxial cable, etc. Meanwhile, it also can transmit telephone signal when transmitting network signal (adding an additional splitter).

This device can be widely applied in network signal extending system, network security system, network information display system, network renovation and expansion systems, etc.

Features

◆ Max transmission distance can reach 3,000m

◆ Max transmission rate can reach 148Mbps

◆ Support audio signal transmission over cables simultaneously

◆ Plug and play, transparent transmission, network rate adaptive
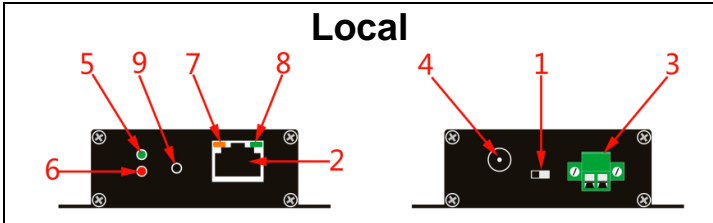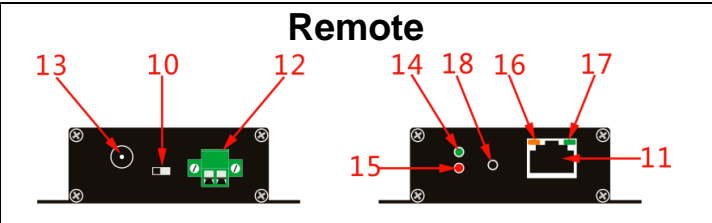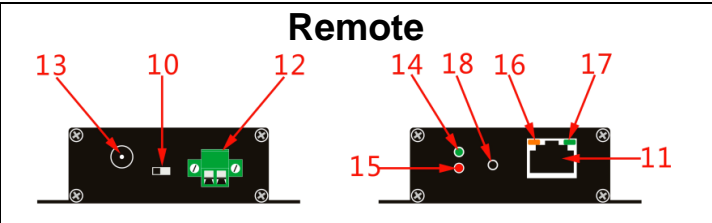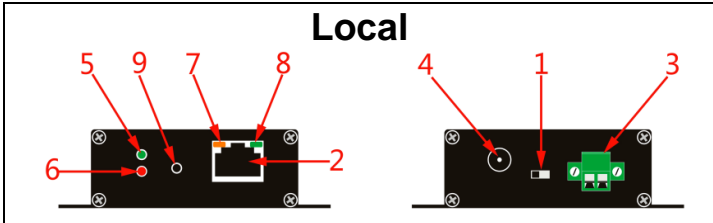
Technical Parameter

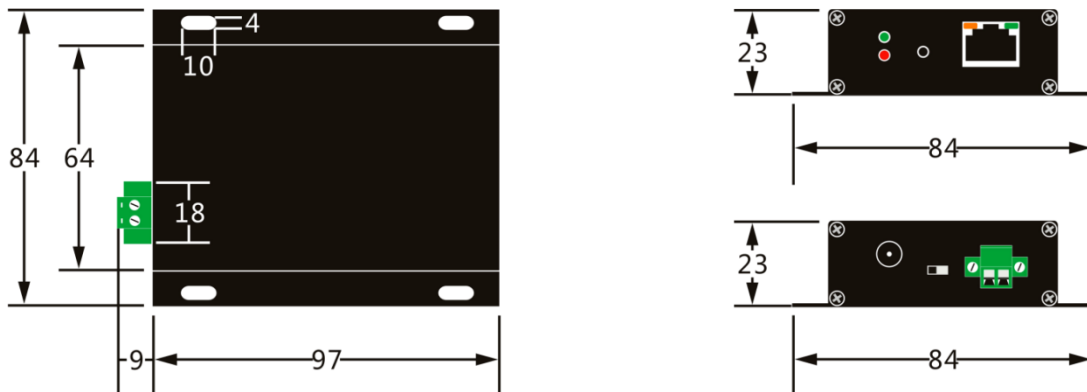| Categories		Description
Power	Voltage Range	12VDC±10%
	Power Consumption	≤3W / PC
Transmission Rate	Up Link74Mbps/ Down Link 74Mbps	Max 148Mbps
Protection	Transmission Channel Lightening	4KV 10/700us, common mode lightning: Level 4
		1KV 10/700us, differential mode lightning: Level 1
		Executive Standard: IEC61000-4-5
	Product Electrostatic Protection	1b contact discharge　Level 2
		1b air discharge　Level 2
		Executive Standard: IEC61000-4-2
Physical Characteristic	Dimensions (L x W x H)	97mm×84mm×23mm
	Material	Aluminum
	Net Weight	140g/PC
Operating Environment	Working Temperature	-20℃～60℃
	Humidity	＜95% (Non-condensation)

Installation Instructions

Definition of Local & Remote; Terminal device & Remote device:

Local & Remote: Ethernet Extender Unit connected to the computer is Local by default. Ethernet Extender Unit connected to the camera is Remote by default.

Terminal device / Remote device: Terminal device generally refers to the direction of computer / machine room, and remote device generally refers to the direction of camera.
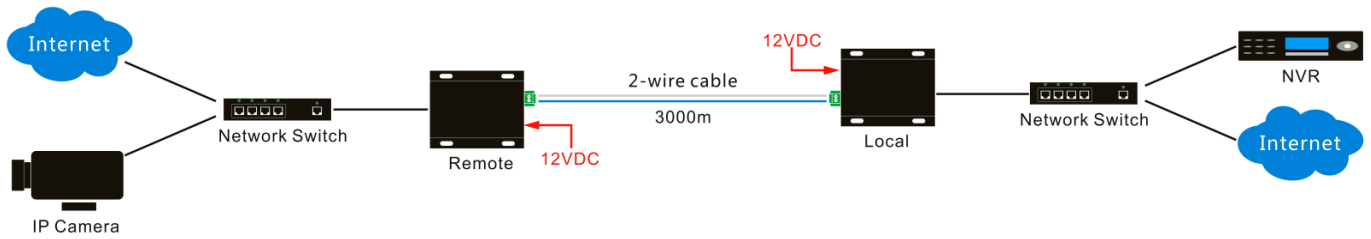
Step	**Local** Installation Instruction	Step	**Remote** Installation Instruction
1	Move the Local/Remote switch to local unit (1)	10	Move the Local/Remote switch to remote unit (10)
2	Connect the network cable to the RJ45 terminal of master unit (2)	11	Connect the network cable to the RJ45 terminal of remote unit (11)
3	2-wire terminal (3)	12	2-wire terminal (12)
4	Connect the power adaptor (12VDC) to the power terminal (4)	13	Connect the power adaptor (12VDC) to the power terminal (13)
5	Local/Remote indicator, it is always on when device is local unit (5)	14	Local/Remote indicator, it goes out when device is remote unit (14)
6	Power indicator is normally on (6)	15	Power indicator is normally on (15)
7	Network data indicator quickly blinks when data transmission is normal (7)	16	Network data indicator quickly blinks when data transmission is normal (16)
8	Line indicator quickly blinks (8)	17	Line indicator quickly blinks (17)
9	Reset button (9)	18	Reset button (18)

Dimension

Note: Dimension error value ±1 mm

Installation Diagram

Troubleshooting Method

1. The Ethernet Extender is not working.

(1) Check whether the power supply and the network jumper is normal or not, whether the wiring and cable connector are correct or not, and use the replacement method to check.

(2) Check whether the local end / remote end dial code is correct or not. In case of power failure, switch on the power after setting.

2. After a period of using Ethernet Extender, the Ethernet signal has packet loss or disconnection.

(1) Check the power adaptor status, if find they are aged or damaged, please replace it.

(2) Check all the cable connections, if find any loose cable or short circuit, please solve it.

3. The screen is frozen, and the Ping packet is normal.

(1) Ethernet Extender is transparent transmission. Check whether the version and setting of IP Camera are correct or not.

(2) Check whether the throughput of network switch is enough or not. Please directly connect the computer to check the status.

(3) Confirm all the IP surveillance devices belong to the same brand or not, whether they support onvif, and then check their compatibility, do the test of reducing video stream.

(4) If working environment temperature of Ethernet Extender is too high, firstly cut off the power supply. If confirm the devices are overheated, please adopt temperature decrease measures.

4. After the Ethernet Extender fails, the replaced one can't transmit the signal.

(1) Check whether the Local / Remote dial code of the replaced Ethernet Extender is consistent with that of the previous one, and then powered off and restarted the Ethernet Extender to test the connection.

(2) Replace the power adapter; check the cable connection, and connect it to the extender after everything is normal.

Use Tips

When you use OT-L-DSL, please follow the below tips as a reference, in order to reduce the fault in the process of using and the inspection work.

1. Signal transmission cable must be the copper cable. Other material cables will cause the decrease of signal transmission quality and distance.

2. Coaxial cable, twisted-pair cable, telephone line and power line all can be used to transmit network data signal in projects. A variety of cables arbitrary mixed connection also can reduce the quality of signal.

3. Long-distance cable connections must be standard connection method, such as welding or using connectors.

4. Please choose matching power supply **(12VDC/1A)**.

5. Set remote and local device by the switch. Remote and Local could be optionally installed. But it does not work if Local+Local or Remote+Remote.

6. There is no waterproof design for this product, please make sure it is used in dry environment.

7. If device fails, do not disassemble or repair it by yourself. Please contact us timely.

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Thank you for choosing Ourten!