PM312D
PiXORD Media Converter

△ **PM312D: Remote**

△ **PM312D: Local**

MAIN FEATURES

- Uses legacy twisted pair cabling - cuts installation costs
- Supports multiple IP cameras
- Supports MegaPixel, PTZ, Speed Dome cameras which requires higher power supply
- Supports any network device
- Simple to install - no IP address or other setup required

- Fully transparent 100 BaseT Ethernet
- Long distance power supply, up to 1500m
- Compact size
- Low power - uses existing camera power supply (DC 12V; AC 24V…, etc (be able to customize))
- Now available with PoE OUT (Power deliver 30W)

Long distance transmission with power supply to the difficult cabling areas such as Farm/Road/Bridge/Campus/Dam, etc.
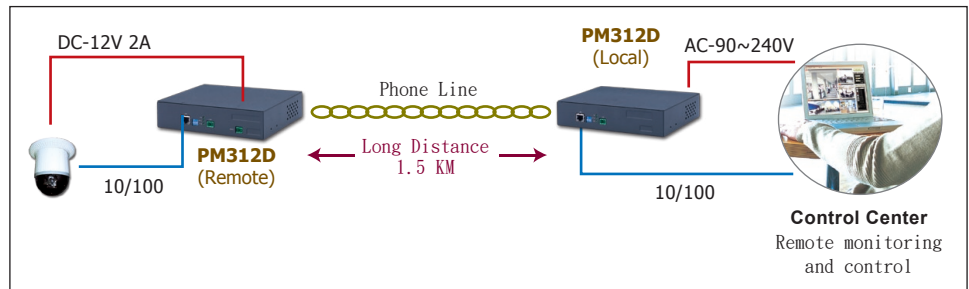
Specification:

- Power Supply: 0.5A~0.9A, 90~240V AC
- Power Deliver: 30W
- Interface: Terminal Block for phone line/ RJ-45
- Lightning Strike Protection
- Power Protection
- Dimension: Local: 133 (W) x 195 (D) x 43(H) (mm); Remote: 122 (W) x 164 (D) x 43(H)
- Weight: Local: 786 ± 2g; Remote: 636 ± 2g
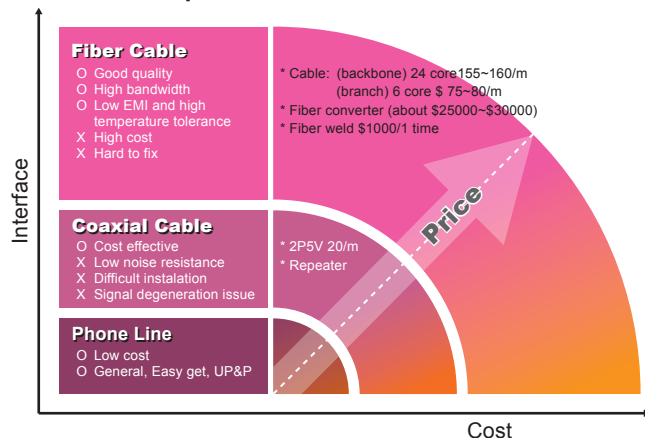- Operation Temperature: -20°C~50°C
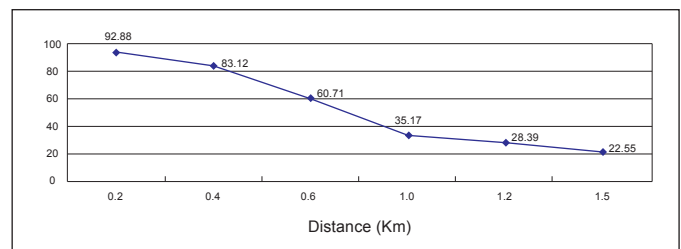- Humidity: 85% RH
- Material: metal

PM312D: TERM

DC-12V 2A

Phone Line

PM312D (Local) AC-90~240V

10/100

PM312D (Remote)

Long Distance 1.5 KM

10/100

Control Center
Remote monitoring and control

Advantage:

Cable Compare Table

Fiber Cable
- O Good quality
- O High bandwidth
- O Low EMI and high temperature tolerance
- X High cost
- X Hard to fix

* Cable: (backbone) 24 core155~160/m (branch) 6 core $ 75~80/m
* Fiber converter (about $25000~$30000)
* Fiber weld $1000/1 time

Price

Coaxial Cable
- O Cost effective
- X Low noise resistance
- X Difficult instalation
- X Signal degeneration issue

* 2P5V 20/m
* Repeater

Phone Line
- O Low cost
- O General, Easy get, UP&P

Interface

Cost

Bandwidth Efficiency

(chart)			
100	92.88		
80		83.12	
60			60.71
40			35.17
20			28.39 / 22.55
0			

Distance (Km): 0.2, 0.4, 0.6, 1.0, 1.2, 1.5

Compression	M-JPEG	MPEG-2	MPEG-4
Resolution	352 x 288	720 x 576	720 x 576
Frame rate(FPS)	25-30fps	50-60 fps	25-30 fps
Bandwidth require	1.5Mbps	4-15Mbps	10K-1Mbps
Capable cameras (<0.2km)	37	6~20	46
Capable cameras (≒1.5km)	9	1-3	9

Cost effective

PiXORD Media Converter provides the advantage of low cost in physical layer design of network surveillance and management. The reason for such design reducing the required cost is that the video & audio transmission is done via the legacy coaxial cable or telephone line. Thus, installation of PiXORD Media Converter is quite straightforward and cost effective on cabling; no additional cables are required.

Simple Installation

No software/driver installation is required; simply plug and ply. It is compatible with any network protocol. PiXORD Media Converter are applied in pairs. Each PiXORD Media Converter has one connection to its opposite PiXORD Media Converter and the other connection (RJ45) to the network devices. Therefore, by bridging an existed connection, it is just as straight RJ45 to RJ45 connection. No MAC or IP address is required to set for PiXORD Media Converter.

Distance and bandwidth

Measuring by the official bandwidth meter, Smart Bits, PiXORD Media Converter in the transmission distance of 1.5KM (1500 meters) can still keep in 25 ~ 30 Mbps. Upon this condition, the bandwidth is plenty for video transmission of 8 IP cameras (calculated by 3 Mbps bandwidth required for each camera). In addition, as the plenty of bandwidth it also supports the transferring of high definition television (HDTV) signal which is applicable to those video & audio service providers.

Environmental application

By applying the existed cables, PMC can meet the requirements of interference-resistant (tunnels, lifts) or distancing (countryside, villages, bridges). Furthermore, the RS485 compliant model can integrate with the functions of fire, entrance, alarm, control management and etc.

PiXORD
Moving Pictures Around The World

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