

# How to choose the right cable for CCTV & Video Surveillance systems?

When considering the video surveillance system. There are two kinds of security system are available in the market; DVR security system and NVR security system. As we know, digital video recorder (DVR) and network video recorder (NVR) come in diverse different features, models and types. Understanding the function of them and difference between them is very important when you want to choose one system to meet your needs. And choose the right cable for them especially important. ZION Communication give following suggestion on choosing the right cables to help you.

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Security System	Transmission Distance	Suggested Cable	TOP Quality	Economy
DVR	Length=200M	RG59	7100107	7100108
		RG59+2C	7102021	7102034
	200M Length=500M	RG6	7100061	7100064
		RG6+2C	7102002	7102001
	Length 500M	RG11	7100261	7100209
		RG11+2C		
	Length=100M	Cat5e	7112110	7112109
		Cat5e+2C	7112302	7112305
	Length 1000M	Optical fiber Cable		
NVR	Length=100M	UTP CAT5E		7112109
	100M Length=200M	UTP CAT5E BC	7112110	
	200M Length=300M	UTP CAT6	7112202	7112209
	Length 1000M	Optical fiber Cable		
Power & Control	Transmission Distance	Suggested Cable	TOP Quality	Economy
PTZ Control	Length=100M	RVV6×0.5mm <sup>2</sup>	7144103	
	Length 100M	RVV6×0.75mm <sup>2</sup>	7144111	
Lens Control		RVV4×0.5mm <sup>2</sup>	7144102	
Decoder Control		RVV2×1mm <sup>2</sup> Shielded	7144116	
Camera Power (20PCS Camera)	34-50M	6mm <sup>2</sup> Power Cable	7144006	
	21-33M	4mm <sup>2</sup> Power Cable	7144005	
	20M	2.5mm <sup>2</sup> Power Cable	7144004	

## Mainly transmission methods commonly used in CCTV & Surveillance System

When our customers installing CCTV & Surveillance System, they will prepare different design according to the different circumstances of their clients. Using the correct installation design will improve the stability of the monitoring system and improve the construction efficiency, also can reduce costs. Today, ZION COMMUNICATION will tell you several programs in the data transmission of digital monitoring.

### One camera, one power supply, a PC of network cable

Wiring need to wire two types of cable: Power cable and network cable.

Power cable best choice:

<http://www.zion-communication.com/HELLOSIGNAL-Electrica-Installation-Cable-RV-pd6477503.html>

Network cable best choice:

<http://www.zion-communication.com/CAT5E-CPA-for-network-camera-Twisted-Pair-Installation-Cable-pd6425962.html>

Power cable transmission 220V AC, each camera requires one power supply to power. The network cable is used to transfer data to the VCR. Both are indispensable.

### Using POE switches

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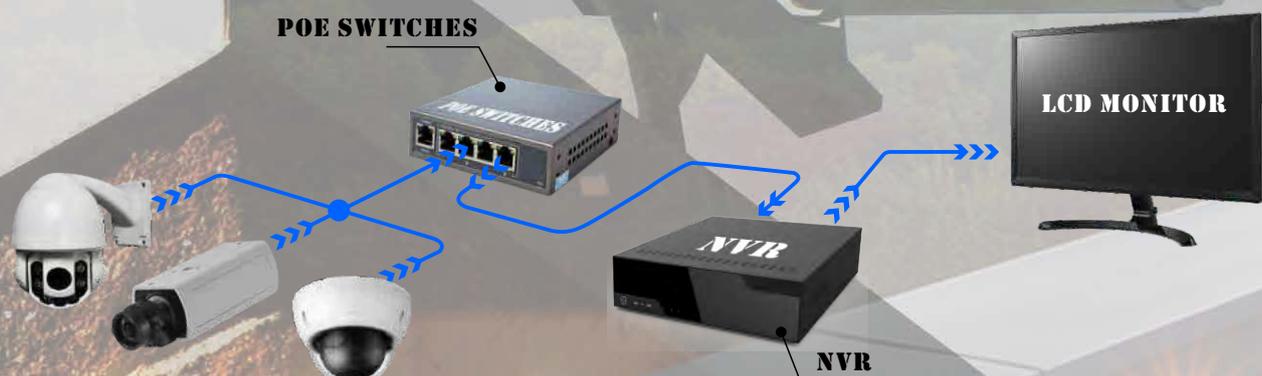
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## Advantages of using POE switches in CCTV & Surveillance system

- ▲1. Needn't wire power cable, save materials, save labor, improve the construction efficiency!
- ▲2. Pure Low-voltage electricity, no electric shock, no fire hazards!
- ▲3. No longer use power, reduce the probability of faults, reduce maintenance costs!
- ▲4. With the storage bracket, works more beautiful, acceptance is easier to pass!

## Fiber plus transceiver, Let the transmission distance farther

When the monitoring distance over more than 100 meters, Under normal circumstances, the cable can do nothing. This time will generally consider using fiber. Fiber distance can achieve 20 km!

Optical fiber is used to transmit data, it needs to work with the fiber optic transceivers to complete the work. Fiber optic transceivers are used in pairs for optical signal and electrical signal conversion.

Fiber optic transceivers are divided into 100 megahertz and gigabit, and can be selected based on the number of cameras included.

Fiber prices are cheap, and the transmission distance is far, widely used in monitoring projects. But the fiber needs to be welded, the welding equipment is expensive, so generally, welding need to find someone to carry out. It takes a certain amount of costs and time. This makes a lot of engineers look and step back!

ZION COMMUNICATION supply many types of good quality optical fiber cable for you:

<http://www.zion-communication.com/Optical-Fiber-Cable.html>

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