



Smart UTP Cabling & Transmission Solutions

FORESIGHT CCTV is one of the leading professional manufacturers in the field of CCTV Cabling System products, especially in Twisted Pair Transmission products. We design, develop and manufacture a full range of Twisted Pair Transmission, Rack Mounting Hub System, Coaxial Cabling system for Video Distributor & Amplifier, Power Supply Center, other accessories..etc.

With strong R&D team, quality control system and well-equipped facilities, all products provided are of highest quality and performance that comply with CE, FCC, etc. To ensure our solid commitment for quality, we adhere to procedure under the quality standard ISO9001.

Our full range of Twisted Pair Transmission Products include Twisted Pair Passive & Active transceivers, Rack Card transmission, Multi Channel Hub system solution. These smart cabling system transmissions are an alternative solution to coax installation into furnishing lower cost and easily installing for long-range transmission.

We assure that our competitive prices, high quality, punctual delivery and customer intimacy after service support will be satisfied you. We should be very pleased to send you further information upon receipt of your inquiry. Any of specific OEM/ODM business cooperation is also very interested.

We sincerely hope to form a happy and mutual profitable long term business relationship with your esteemed company in the near future.



Smart UTP Cabling & Transmission Solutions

- **Twisted Pair Transmission
(Video, Audio, Data, Power)**
- **Video Amplifier**
- **Video Distributor**
- **Surge Protection Device**
- **Power supply center**
- **Tool, Accessories**



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Transceiver



Rack Card



19" 3U Rack Card Cabinet



Distributor



Panel



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FORESIGHT twisted pair transmission products are designed for CCTV signal transmission over unshielded twisted pair wire (CAT 5 network cable). These smart cabling system transmission are an alternative solution to coaxial and fiber based systems, providing following benefits:

- Fast, easy installation, saving time and money.
- Substantial savings on the cost of the cable itself.
- Superb quality on long range transmission



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Simply find a spare pair of CAT 5 cable near the camera to attach the video transceiver as Transmitter and cross connect through the building(s) to where you plan to put your monitor, Quad, multiplexed, DVR to attach the other video transceiver as Receiver.

Passive: No power required

Active: DC12 volt or AC 24 volt power required

Transmission Range

- Passive transmitter --- Passive receiver: 600 meters (B/W), 400 meters (Color)

- Passive transmitter --- Active receiver: 1Km

- Active transmitter --- Active receiver: 2.4Km(B/W), 1.5Km (Color)

Using 2 Sets series connection, B/W video transmission up to 3.6Km, Color up to 3.0 Km.

All transmission distances mentioned above are without connecting image processor (e.g. Quad, Multiplexed, DVR).

In case where the picture displayed lacks quality connecting said processors, please alternate the passive receiver to active type TTA111VH, TTA111AVR(VR), TRA111AV, TPA009 or use video amplifier (CA404/CA101AV) before connecting image processor.



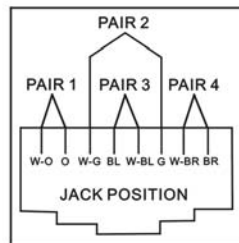
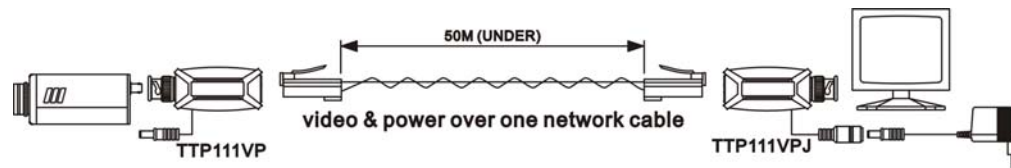
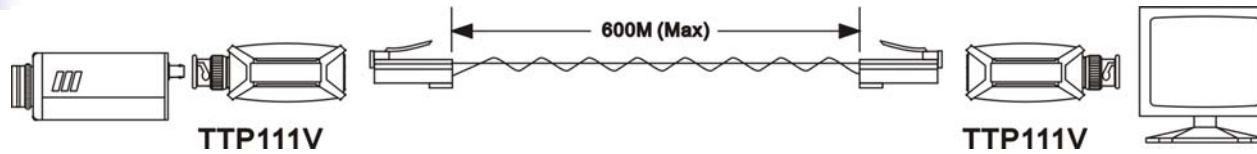
General Applications

Smart UTP Cabling & Transmission Solutions

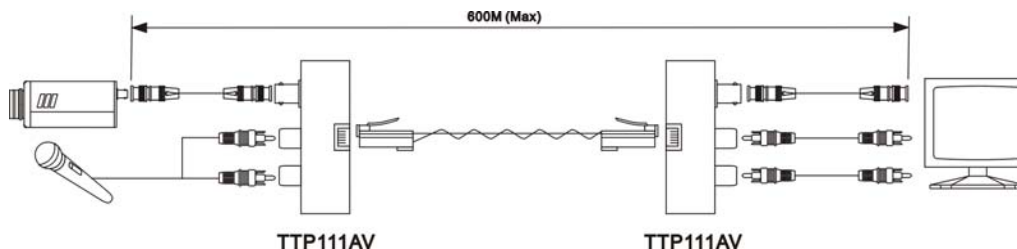
Perfect for larger CCTV installations where need install many cameras, difficult in using coaxial cable, existing many interference environment. To Provide: Clear Video Signal, Fewer Cable to Manage, Lower Cost Per Connection, Centralized Wiring For Greater Control. Such As:

- School
- Airport
- Park
- Department
- Casino
- Elevator
- Hospital
- Parking Lot
- Electricity Plant
- Prison
- Shopping Mall
- Traffic Control

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RJ45 pin connect
 Pair 1 : 1. Orange-white & 2. Orange
 Pair 2 : 3. Green -white & 6. Green
 Pair 3 : 4. Blue & 5. Blue-white → Power
 Pair 4 : 7. Brown-white & 8. Brown → Video

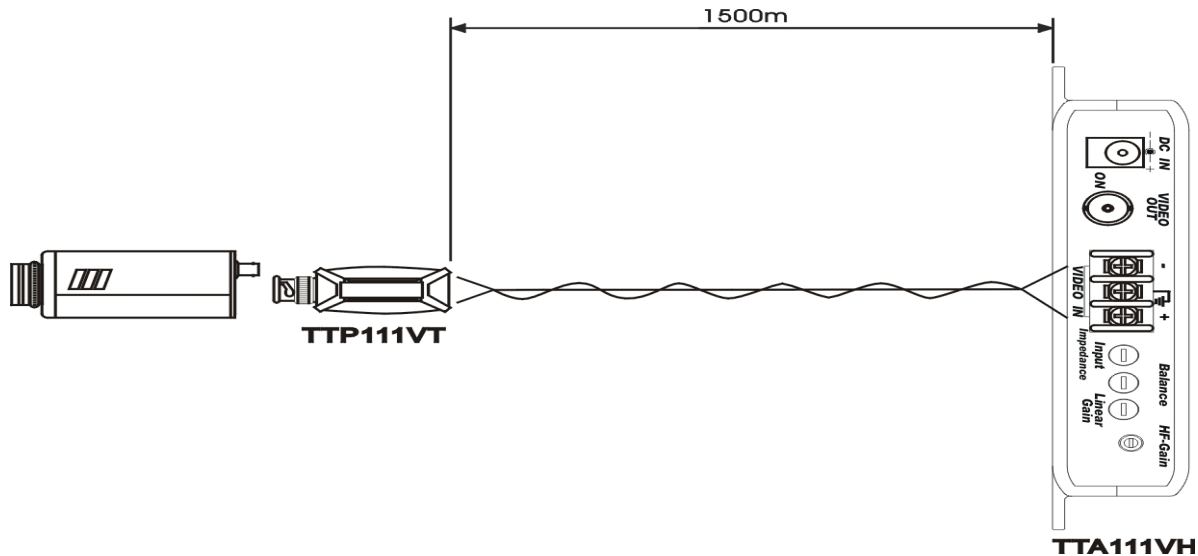


One camera to one monitor with range 600 meters (B/W), 400meters (color)
video and audio transmission



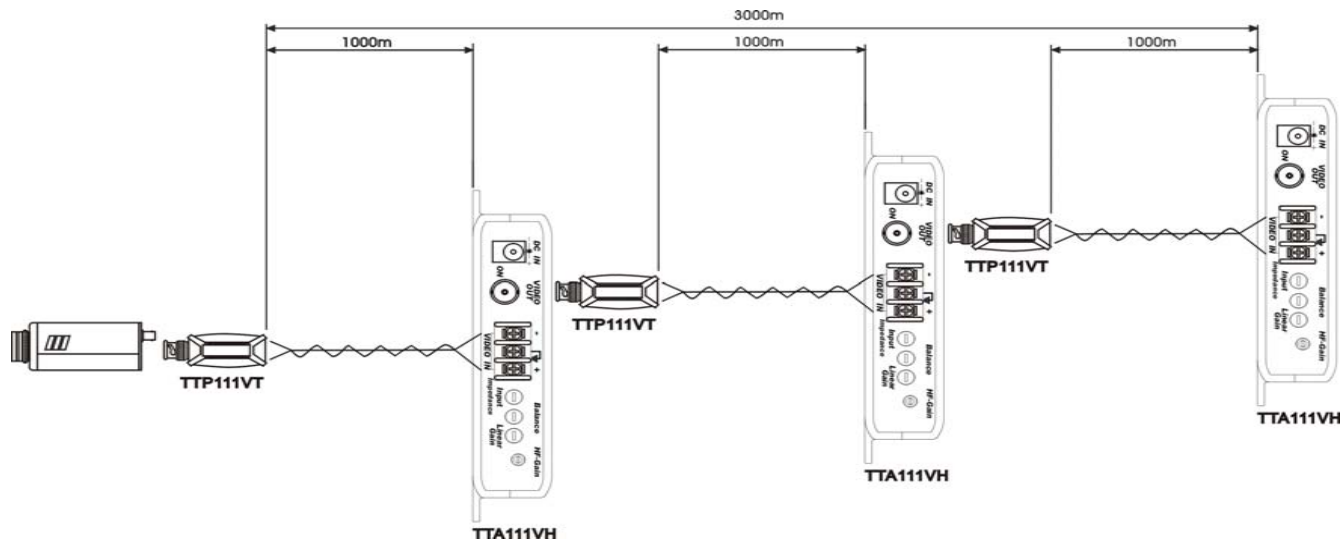
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Basic Application on Long Range Transmission



Single channel transmission into DVR , color camera up to 1.2-1.5Km without color loss.

TTA111VH Built in Surge Protector to Protect DVR or other monitoring equipment.

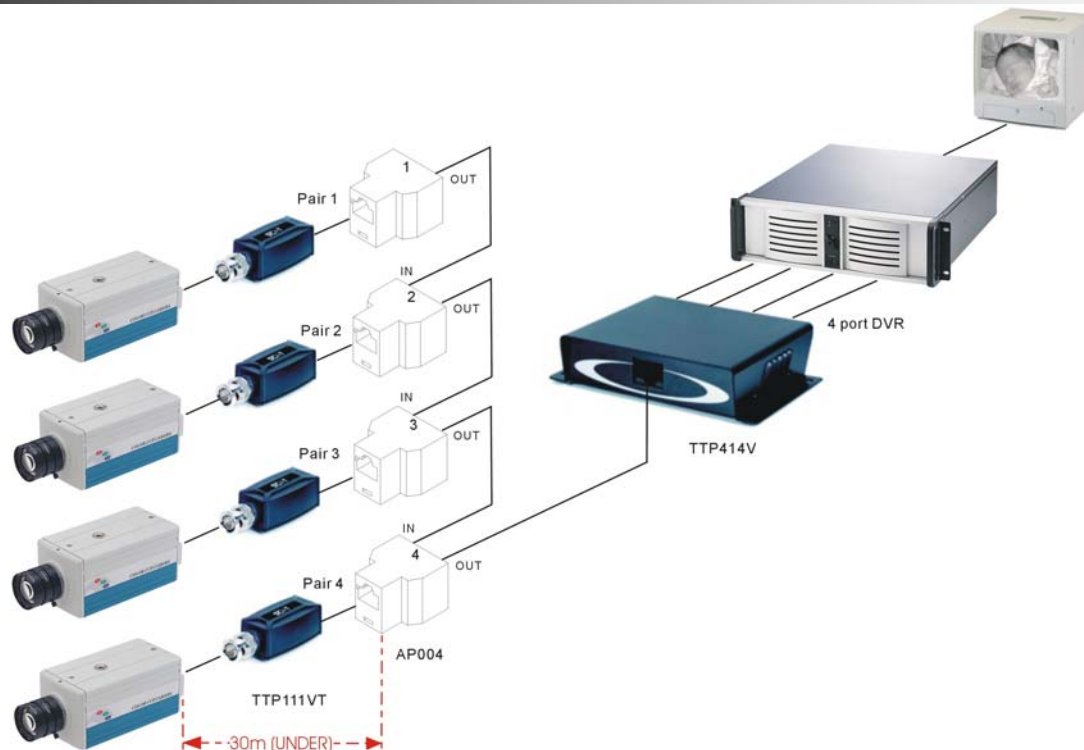


Using SC&T TTP111VT+TTA111VH three sets series connection,
Color camera range up to 3Km (to DVR) without color loss



One Single Cable Series Connection Application

Smart UTP Cabling & Transmission Solutions

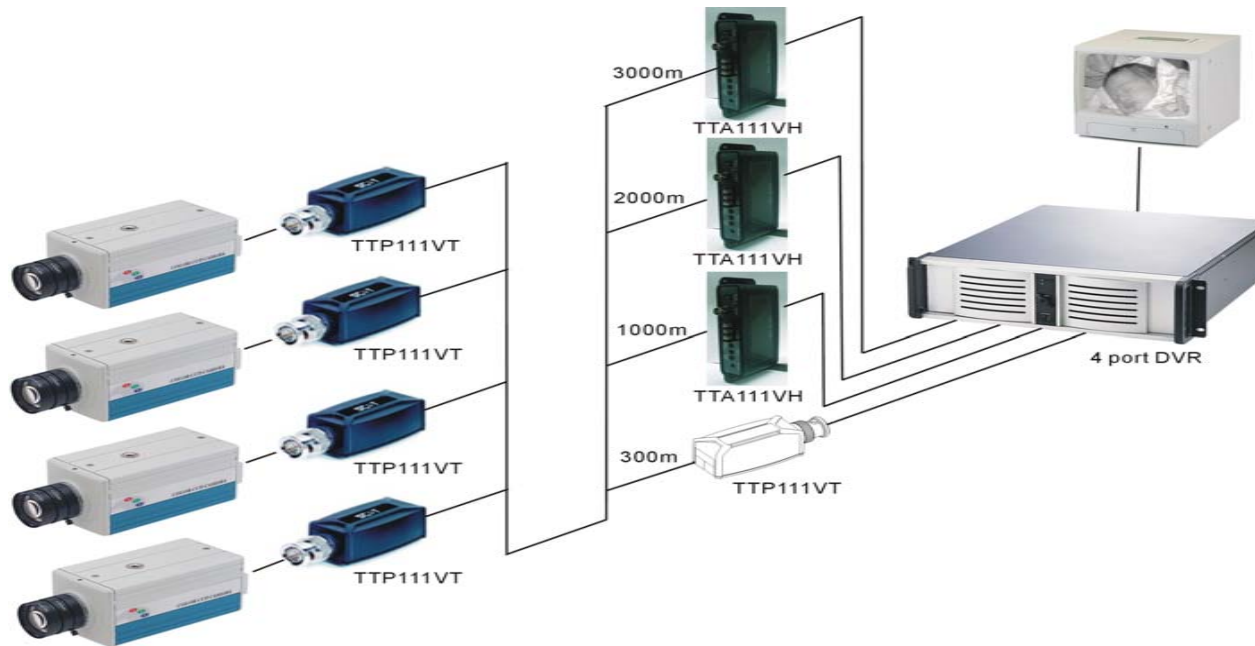


Use SC&T AP004 RJ 45 CAT 5 cable distributor and 4 paces TTP111VT passive video transceiver for series connection, to use one single CAT 5 4 pairs twisted pair cable to transmit 4 set video signals. It is **perfect to save cables and have the best cable management.**



One Single Cable Series Connection For Variety Range Application

Smart UTP Cabling & Transmission Solutions



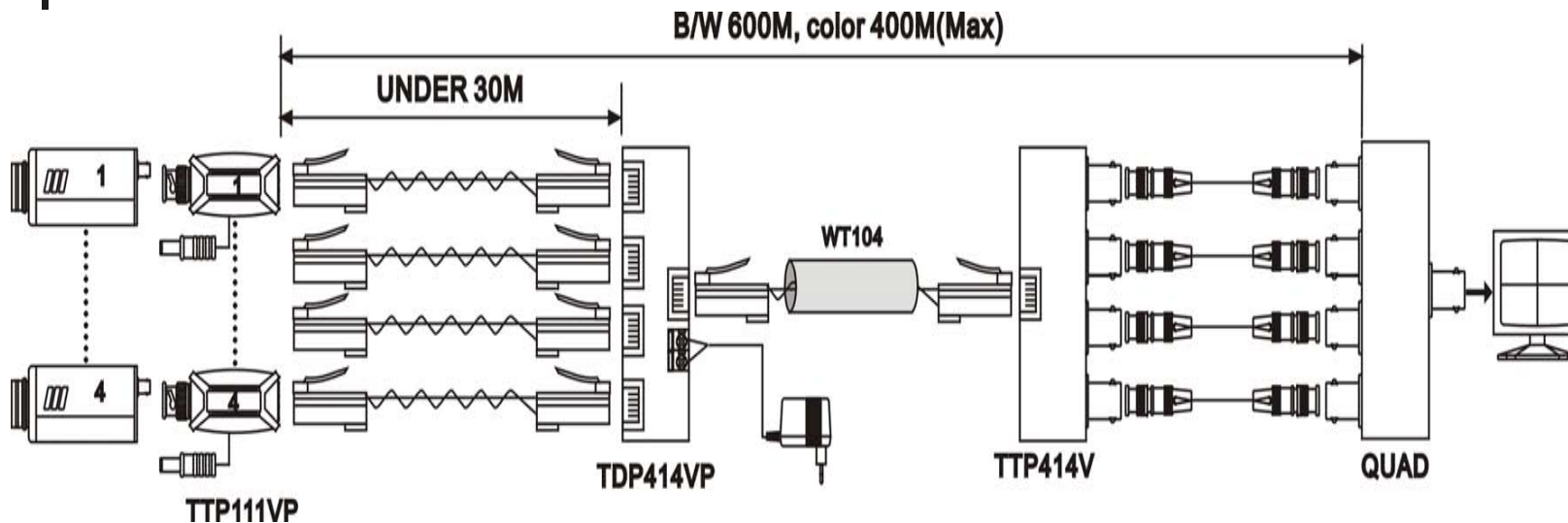
From 1KM to 3KM series connection for different range
2Km using 2 set P111VT+TTA111VH series connection
3KM using 2 set P111VT+TTA111VH series connection



4 Cameras Power

From Cable Hub Station

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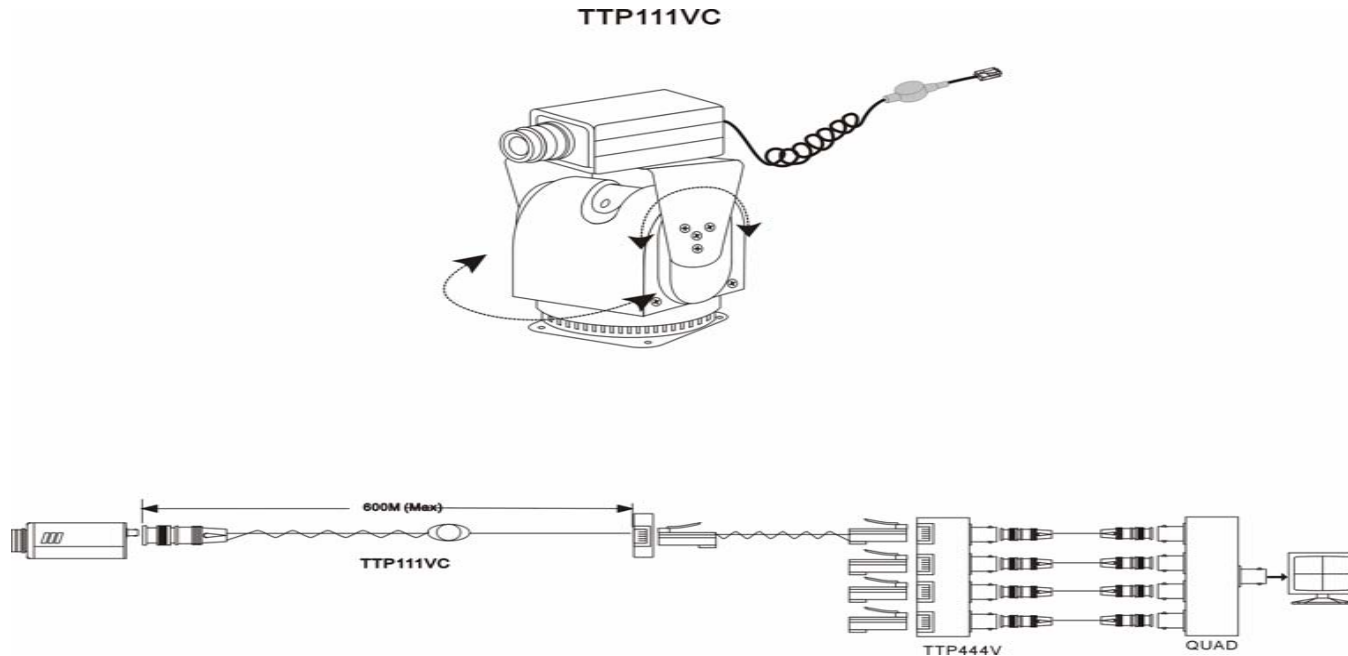


Four cameras on different filed/room connect to cable hub TDP414VP, **camera power could send from cable hub stations (30 meters)**, then using one single RJ45 CAT 5 networking cable to transmit 4 sets video signals to monitoring station.



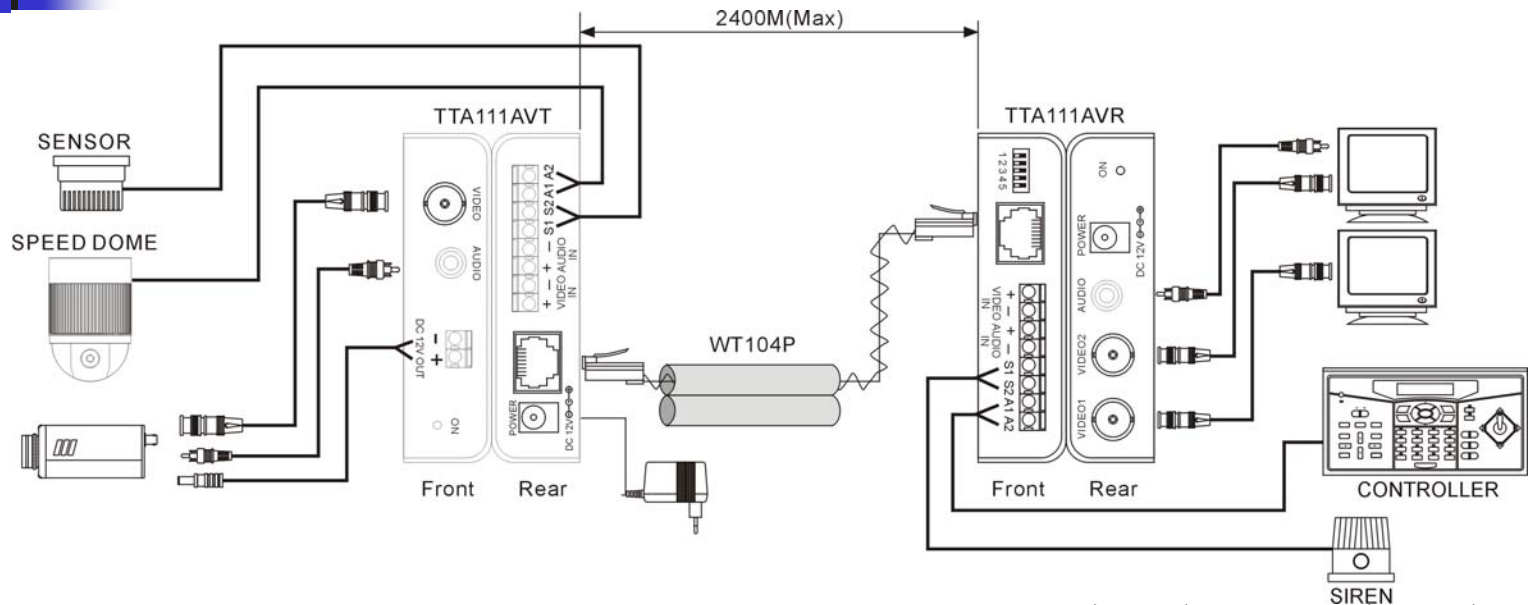
Camera With Pan-Tilt Turning Device Application

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Using video transceiver with Retractable coiled cable on the camera to **avoid cable bad connection or break** when the pan-tilt device under operation.

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Using our TTA111AV transmission system, **range up to 2.4Km (B/W), 1.5Km (Color)** and could transmit 2 sets data signal. Using 2 Sets series connection, B/W video transmission up to 3.6Km, Color up to 3.0 Km.

4 pairs CAT 5 twisted pair cable transmit:

Pair one: Video

Pair two: Audio

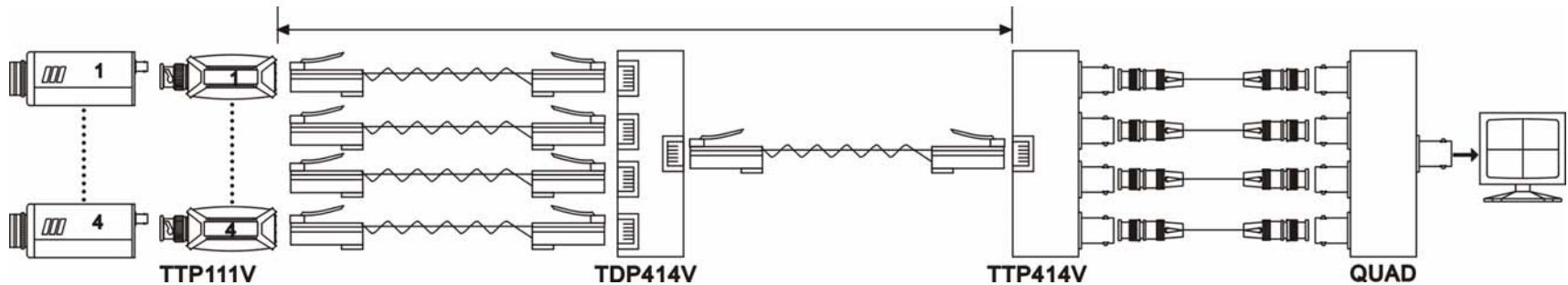
Pair three: speed dome control signal

Pair four: alarm sensor control signal



4 Cameras to Hub CCTV Distribution Application

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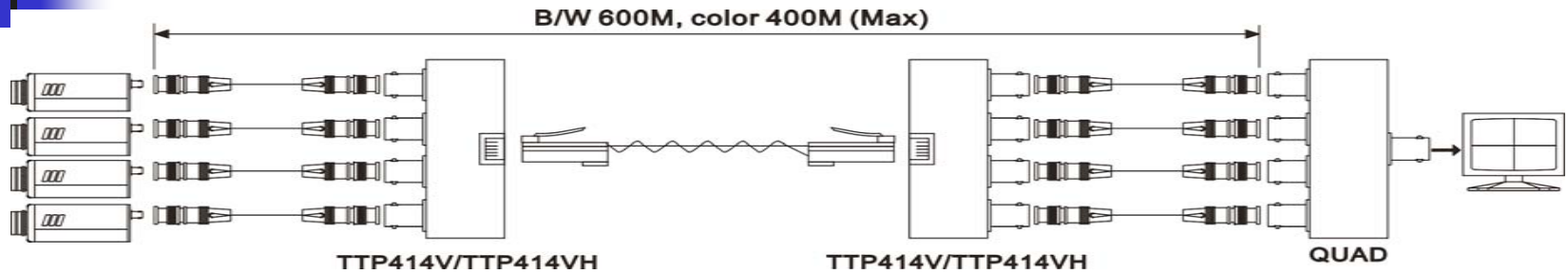


Four cameras on different filed/room and monitoring station is far away. Each camera connect to cable hub, then using **one single CAT 5 cable to transmit 4 sets video signals** to 4 channel video transceiver hub to monitoring station. (Quadmultiplexed/DVR solution)

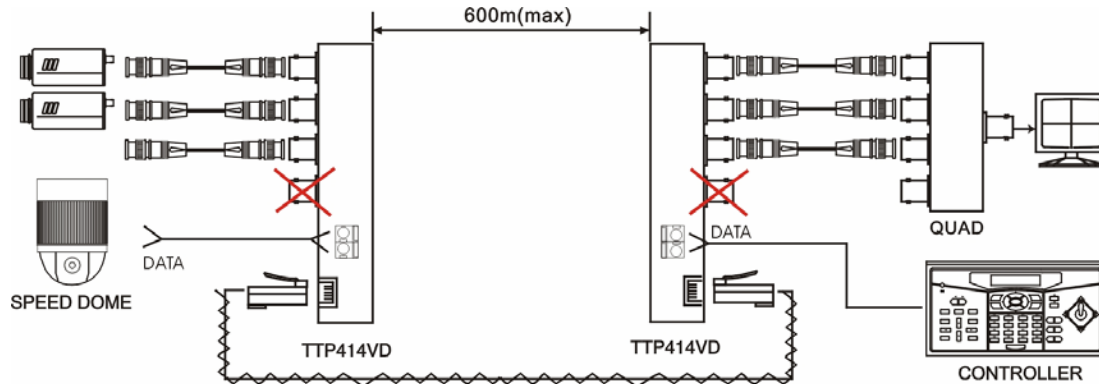


4 Channel Hub to Hub CCTV Distribution Application

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The range is near between four cameras or four cameras on same floor/area to control room. Using existing coaxial cable from camera to 4 channel hub, then using one CAT 5 cable to monitoring station, ideal for cost saving of cable and easy installation.

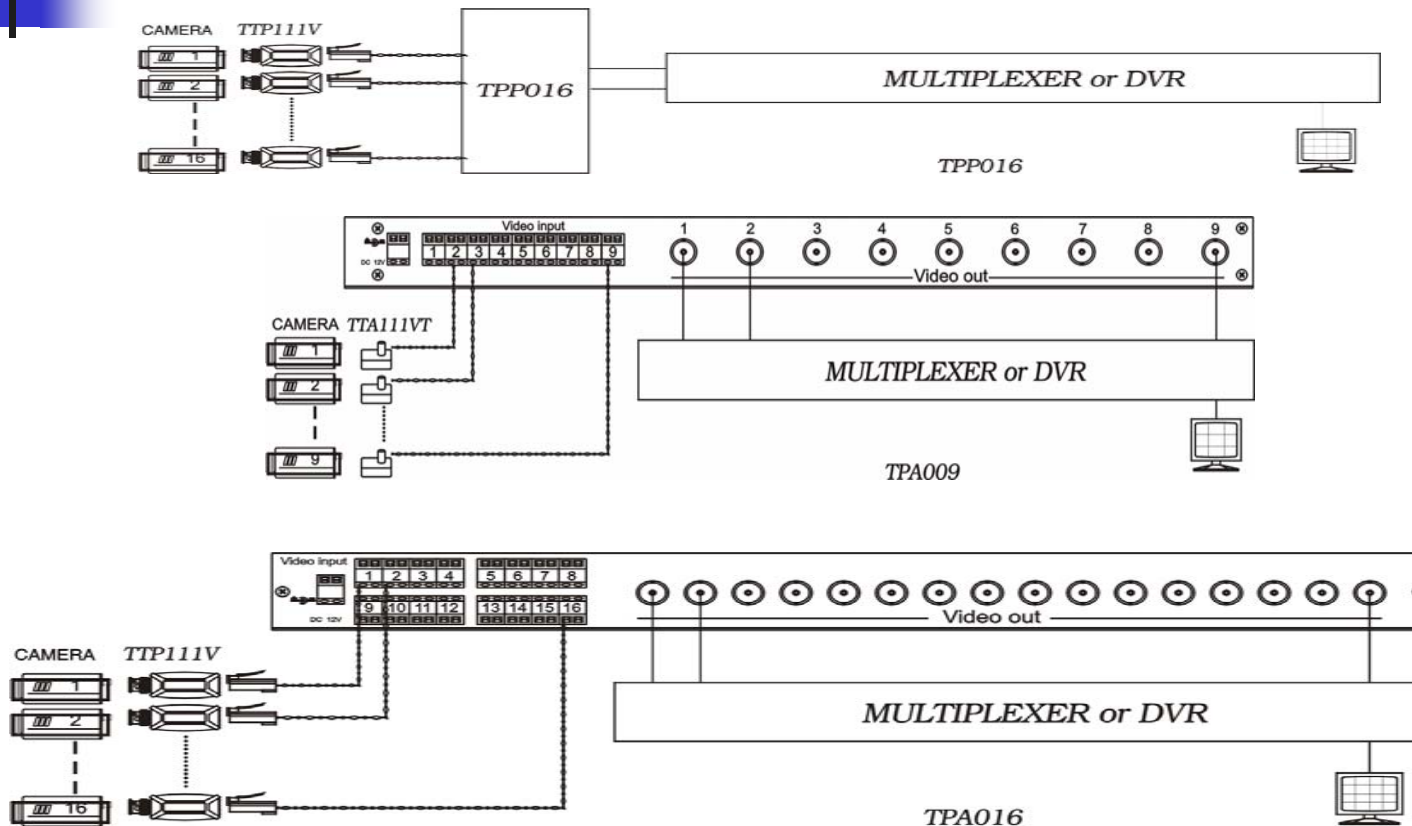


Using one single 4 pairs CAT 5 cable to transmit /receive 4 sets video signals or use 3 pair to transmit/receive 3 sets video signal, then the fourth pair could transmit/receive data signal (PTZ control)



Multi-Port 9 or 16 Channel Multiplexed / DVR Application

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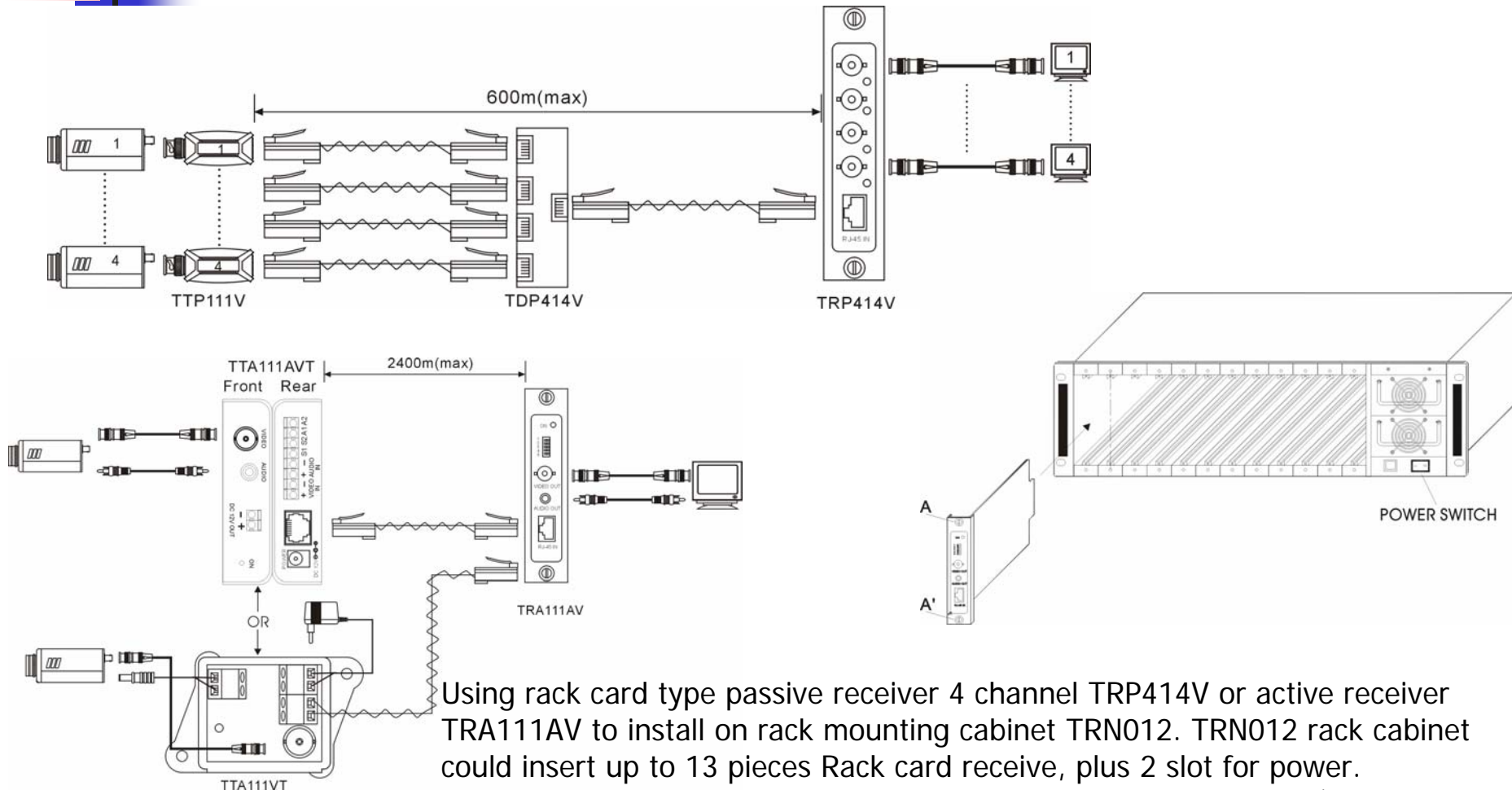


Using 9 or 16 port receiver **1U panel** on motoring station, the 1U panel can reside in the same rack as other equipment, such as switchers, multiplexes, DVR...etc.



Building or Large CCTV installation with Rack Cabinet

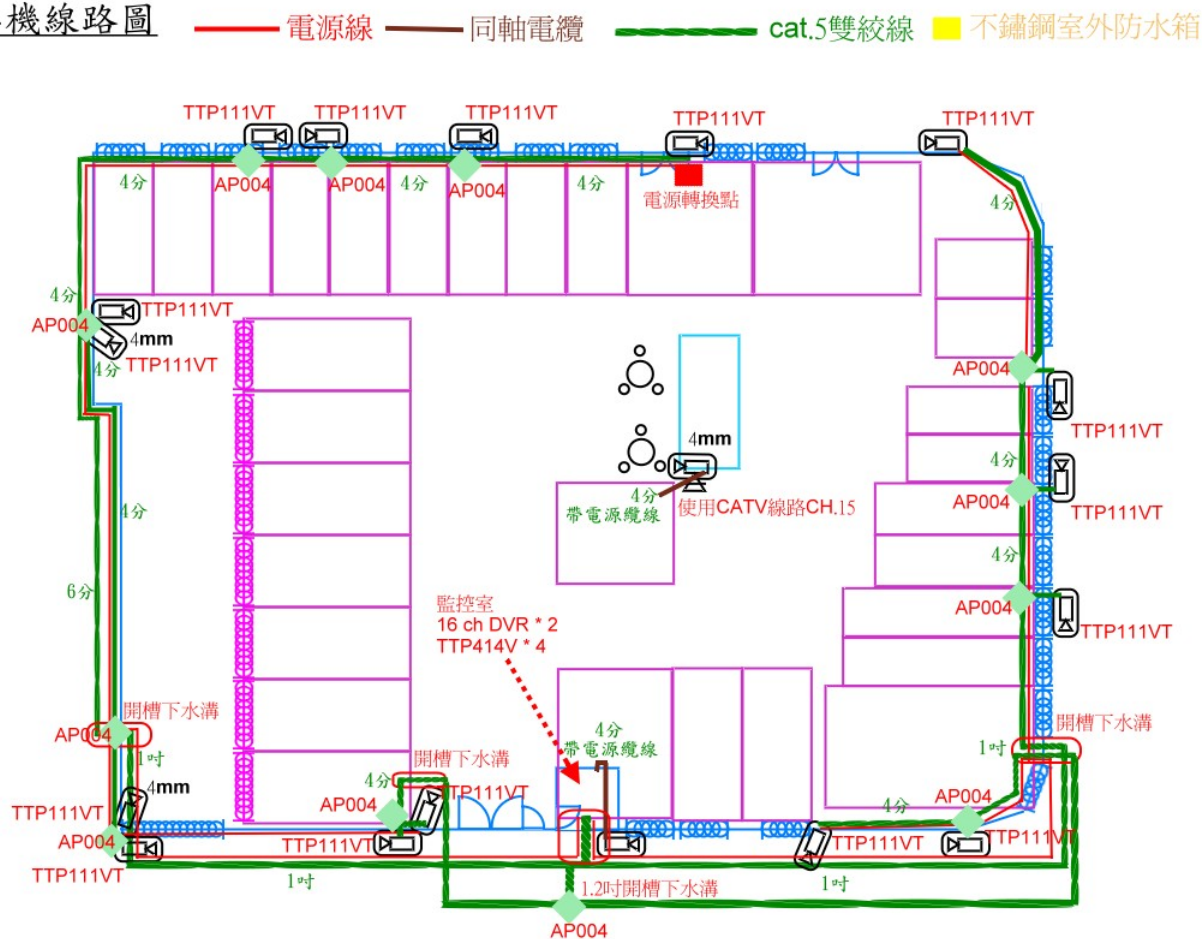
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Using rack card type passive receiver 4 channel TRP414V or active receiver TRA111AV to install on rack mounting cabinet TRN012. TRN012 rack cabinet could insert up to 13 pieces Rack card receive, plus 2 slot for power.
The maximum receiving channel could up to 60 cameras.(Passive type)

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攝影機線路圖





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Concrete Example - Illustration

This village square is quite grace and there is no space at the front and without reserve any tubing to install 16 coaxial cables. The only cabling way is go through underground transmission system, then sending all video image to monitoring station.

In order to save labor cost and simplify cabling installation to have best cable management is alternating Twisted Pair cabling Solution. To use FORESIGHT TTP111VT & AP004 connection, send 4 video over one single cat 5 networking cable, then 16 cameras only need 4 networking cable to control room. It is smart, professional, fast and cost effective cabling solution.

By the way, since the CAT 5 cable cost is cheap and easy install, so the installer reserve one more spare cable to alternate any damage cable or need install new camera for the future.



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Conventional Coaxial & New Resolution Twisted Pair Cabling Installation Comparison Chart

Installation	Cable Cost	Labor cost	Hardwire	Total Cost
Coaxial Solution	RG 59/U AWG 22/AWG37 Us\$0.16*1500(M)=us\$240.00	4person//day us\$ 320	No or Need Video Amplifier	Us\$560.00
Twisted Pair Solution	CAT 5 UTP 4Pairs AWG24 Us\$0.11*440(M)=\$48	2 person/day us\$ 160	TTP111VT Us\$9*16piece= us\$144 TDP414 Us\$20*4piece= us\$80 Total:us\$224.0	Us\$432.00

Note: The above Coaxial installation did not include the cost of 16 sets underground cable tubing.



4 Cameras Long Range (2.4Km) Installation Comparison Chart

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Installation	Cable Cost	Hardware	One Camera	4 Cameras
Coaxial Solution	RG59U 5C AWG22/AWG37 Us\$0.2*2400meters= us\$480.00	Video Amplifier Us\$20*7=140	Us\$620.00	Us\$620x4= Us\$2,480.00
Twisted Pair Solution	CAT 5 4P AWG24	TTA111V*1		
	UTP Us\$0.13*2400=312 STP Overall aluminum foil Mylar shield Us\$0.17*2400=408	Us\$39.00 x 1= Us\$39.00	Us\$351.00 Us\$447.00	Us\$351x4= Us\$1,404 Us\$447x4= Us\$1788.00

★ The Above Coaxial Solution cost not include the cable tubing and outdoor waterproof box, other accessories.



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CCTV Smart Cabling System Solution Coaxial Cabling Transmission

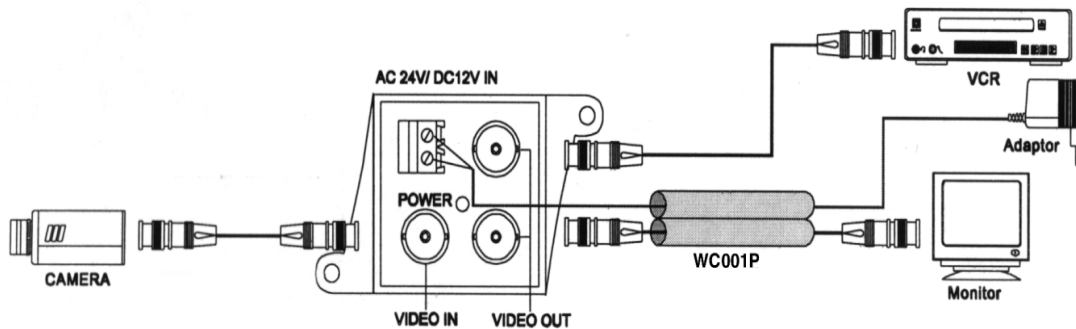
If your installation calls for sending a video signal over Multiple monitors, use one of our video distributors. If your Installation demands very long camera cable runs, use one of our video camera amplifiers.



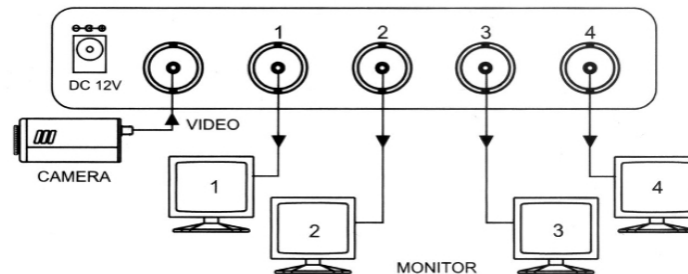
Video Distributor



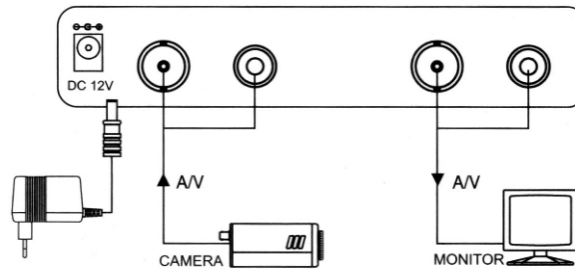
Video Amplifier



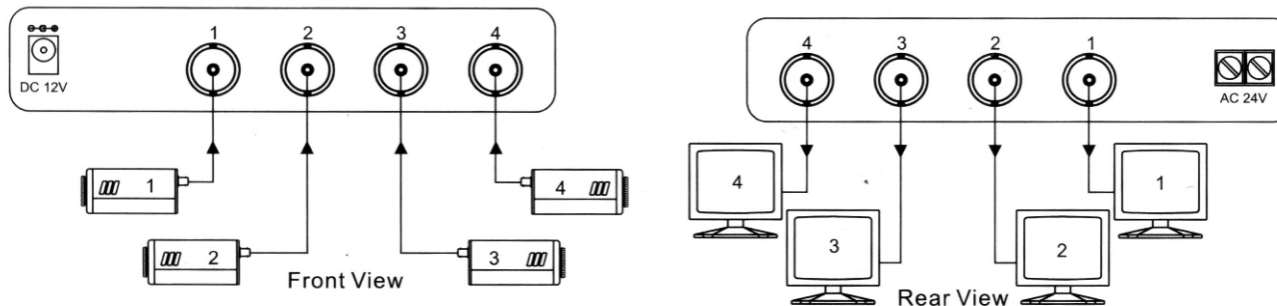
Using CD102 transmit **one video signal to two monitors**(destination devices) without video loss.



Using CD104 transmit **one video signal to four monitors**(destination devices) without video loss.



Using CA101A for **1 channel Video & Audio** Amplification,
Range could up to **1000 meters** with using RG59 coaxial cable.



Using CA404 for **4 channel Video** Amplifications,
Range could up to **1000 meters** with using RG59 coaxial cable.

NEW - CA101VH



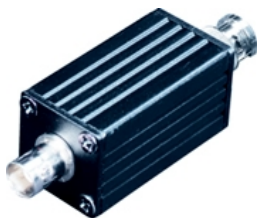
- **Features:**
- Built in Input Impedance Adjustment, transmit a full color video signal range over 1KM (RG59 COAXIAL CABLE) without color loss.
- Built in Balance adjustment.
- Built in Liner Gain adjustment.
- Built in HF/MF/LF Compensation for color gain control.
- Built in Surge Protection.



CCTV Smart Cabling Solution Surge Protection Device

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Do you want to end up throwing away the camera system you just installed just because you were hit with lightning? Use SC&T Surge Protector to protect your equipment from high voltage surges from nearby lightning strikes.



Coaxial



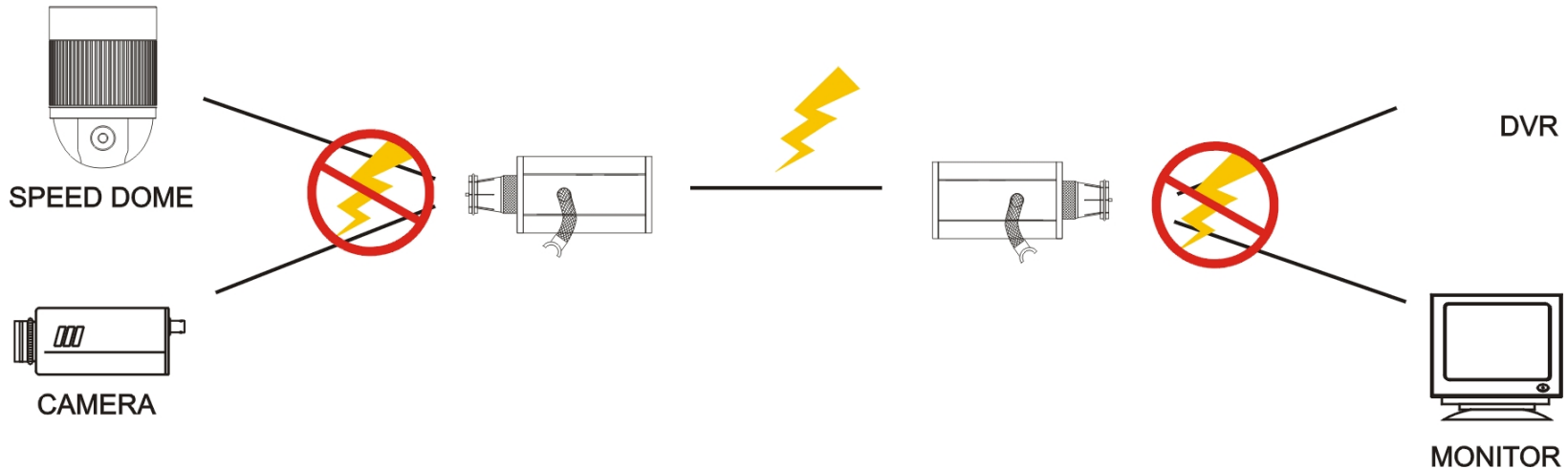
Twisted Pair



Video & Data



Network



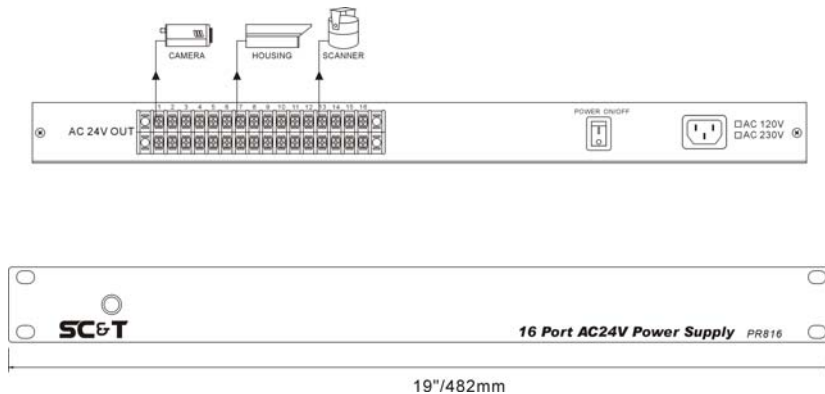
Using **low cost** SC&T Surge Protection Products to protect your high value CCTV equipment.



CCTV Smart Cabling Solution Power Supply Center

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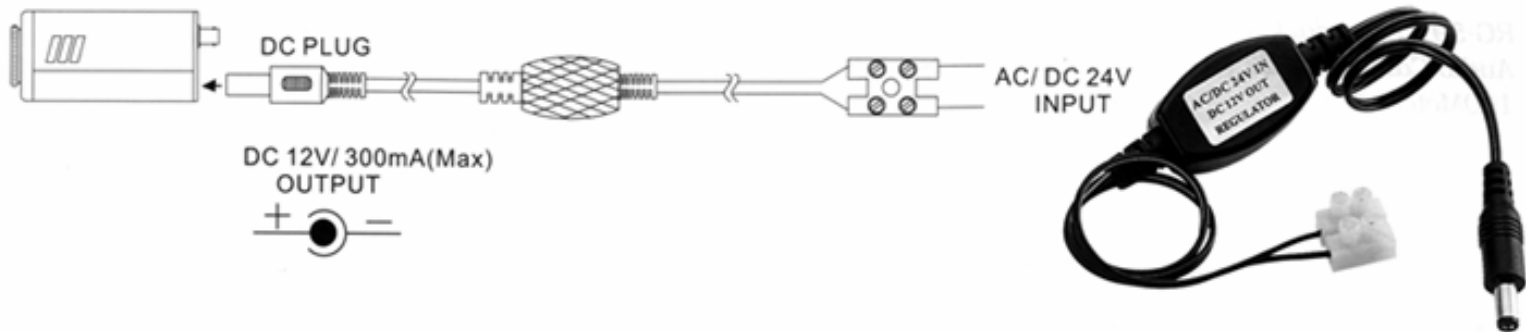
SC&T Power Supply Panel PR801, PR816 both are AC24V power supply in 19" standard 1U rack mounting cabinet. It is perfect to install in the control room. Application for larger industry CCTV installation where need numbers of camera, housing, pan tilt turning device or other Surveillance equipments power sources from building control room.





AC24V Power Converter

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- Item: PC300: 300mA, PC400: 400mA, PC500: 500mA, PC1A: 1A
- AC to DC, DC to DC regulated.
- AC24V convert to DC12V regulated.
- Over DC14V convert to DC12V regulated.





CCTV Smart Cabling Solution Wire & Tool

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SC&T also offer a series of Wire & Tool products to use on Coaxial, Twisted Pair Insta



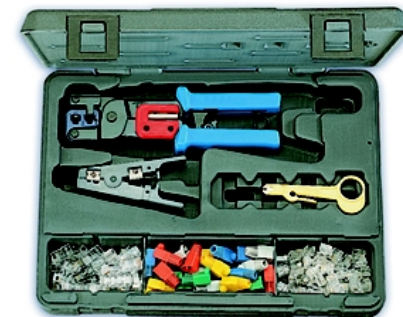
Coaxial & Twisted Pair Cable



Cable tester



Accessories Parts



Tool kits