

Two Videos Connections Over One Coaxial Cable VDS2500

Efficient Transmission for Two Videos, Two Alarm signals and safe DC power

VDS2500-R Sender (Remote Unit)
VDS2500-L Viewer (Local Unit)



Fig. 5 VDS2500 Transmission Set

This video signal transmission system is designed to transmit two video signals and two alarm signals from two cameras to the surveillance control zone by using only one coaxial cable.

Features

- Two videos and two alarm signals transmission channel.
- Sending DC power with 0.8Amp in reward from Viewer to Sender reaching to 800 meters transmission length.
- Selecting NC(Normally Close) or NO(Normally Open) or Termination type from Input Alarm sensor contact form directly.
- Auto DC power supply system provide stable and sufficient 12VDC power to camera.
- Advanced power supply system in Sender provides stable and sufficient power of 12VDC to camera.
- Powerful protection. While in coaxial link false or mis-connection, the DC Power of coaxial cable which comes from Viewer will be cut off to prevent equipments from damaged.
- When the coaxial link false happened, the Link Fault warning signal can be conveyed to the external indicator of Viewer.
- Audio signal transmission function equipped on VDS2510.

Simple Link System VDS2100/2200

No lost signal, Innovative, Superior performance, Low cost

VDS2100-R sender(Remote Unit)
VDS2200-L viewer(Local Unit)

The VDS transmission system transmits realtime video, audio signal and feeds DC power to CCD camera only through One coaxial cable. This feature enables to install and use in all kinds of indoor circumstance.

Features

- High efficiency
- Light weight and small size
- Adjustable DC voltage Input
- Sufficient and stable DC current out(0.5A)

Advantages

- Transmit picture and sound in real-time over one coaxial cable.
- Send AV signals for long distance easily
- Rugged and compact size
- Easy installation and maintenance

VDS2100/2200 has been used frequently in the surveillance equipment market.



Fig. 6 VDS2100/2200 Transmission Set

Biwave Technologies offers the Best CCTV Solutions over Coaxial Cable

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A smart accessory for installer

Have problem with network length limitation and failed in 32 cameras' installation to surveillance system

Here our VDS2700 solves it



What's PTZ Camera Connections VDS2700 ?

VDS2700 is the video signal transmission system to transmit video, alarm, audio, RS-485 data and DC power via One coaxial cable.

VDS2700 consists of remote unit and local unit respectively. The remote unit connects to a P/T/Z (pan/tilt/zoom) camera, the local unit connects to a monitor in surveillance system.

By using inter-carrier technology, VDS2700 provides an innovative transmission method, simple installation and the highest quality picture transmitted for CCTV system.



Fig. 1 VDS2700 Transmission Set

Features

1. Half duplex channel for EIA standards RS-485 interface port.
2. The range of RS-485 Transmission Rate is between DC and 38Kbits.
3. Great quality at video signal:
 - Real-time analogue video signals.
 - No signal lost, No interference in video.
 - No hum, No twist.
4. Using RG-6/U (#18AWG) coaxial cable :
 - With sending the DC power to camera via one coaxial cable, the transmission distance can be reached to 600 meters.
 - Without sending the DC power to camera via one coaxial cable, the transmission distance can be reached to 1,000 meters.
5. Link Fault warning buzzer inside(Siren sound).
6. Built-in transient protector device in the input and output.
7. Link cable lightning induce current protection:
 - Equipped Gas Discharge Tube with high current discharge inside the Local Unit Link-In and Remote Unit Link-Out.
8. Compact size, durable and reliable device.

Many companies declare that they can set up 32 cameras or even 128 cameras. Can you imagine how to install and settle a lot of video, RS485 data and power supply lines?



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U.S. Patent: US6,369,699 B1



Sureillance Video Collector *VDS23000*

The best solution for centralizing the vedio signals

Product Introduction

It is an analog video transmission system for NTSC or PAL video format which is suitable for the outdoor installation for specific area monitory control or the community surveillance system, also for the indoor surveillance system for the buildings. It transfers the video signals by utilizing the multi-carrier transmission technology, which can avoid the signal interference interfering or distorting. It also can collect the video signals by using fiber optical transmitter or video server to send video signals from the local to control center in miles away.

Features:

- Support up to 8 cameras installation.
- Each transmission set including Remote unit and Local unit. The collector platform can fix maximum up to 8 sets.
- The ability of transmission set depends on the selected model of the collector platform. For example with RS485 data version on the collector platform, the transmission set (Remote unit and Local unit) should be with RS485 data model.
- The monitor panel of the collector platform can be changed depending on the selected model.
- Basic function for Video, Audio, PTZ data and Alarm signal transmission
- PTZ data interface can be selected by switch for RS485(half-duplex)/RS422 (full-duplex) which make the duplex/bi-direction transmission.
- Providing three alarm modes (NC/NO/Terminal-Resistor) for selection inside the Remote unit. For the Local unit the alarm output is Open-collector.
- Sending safe-DC power to cameras over coaxial cable.
- The transmission distance can be up to 1,000 meters away over coaxial cable.
- The video signal can be converted to digital format by external video server
- Built-in TVS and GDT inside the modules against lighting-induce current and transient voltage protection.



Fig.2 VDS23210-R Sender / VDS 23000

Video Transmission in Rack-Mount System *VDS24000*

Collecting video signals and sending safe DC power over coaxial cable with high quality assurance



Features:

- Standard 19-inch rack, 1U.
- Transmission distance up to 1,000 meters via RG-6/U coaxial cable.
- Power supply inside the rack provides sufficient DC power for whole system.
- Sender can output +12V/ 1.0A DC for camera and transmit audio and alarm signals.
- Armed with UPS, cameras can get power from control room if power cut.
- Advanced protection function is designed to prevent equipments from damage.
- Check out working status easily from the front panel LED.



Fig.3 VDS24000 Rack-Mount System



IP Network Camera Connection *VDL 4000*

Enlarge the digital transmission area

Features:

- Support to various types of IP cameras.
- IP address or other set up are not required, Protocol Free.
- Network Connection : Ethernet 10M/100M, RJ45 (8P8C) connector.
- IP Interface : 10BASE-T/100BASE-TX, Half/Full Duplex.
- Transmitting the digital video signals and the safe- DC power to the camera over single coaxial cable.
- Utilizing coaxial cable (RG-6/U) instead of the LAN cable (Cat-6) for transmission.
- More than 800 meters transmission distance from Local unit to Remote unit (by RG-6/U, 5C-2V or equivalent cable are recommended) .
- DC power output at Remote unit : 5VDC to 24VDC, depends on Camera requirements.
- Power supply capacity : DC12V/ 3A, and DC24V/ 2A.
- DC power input at Local unit: 48VDC with the power current 60W up.



Fig.4 VDL4000 Transmission Set