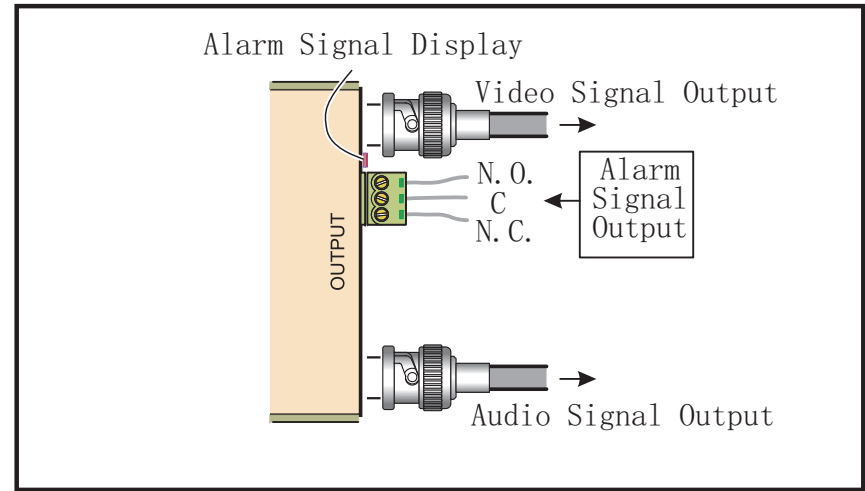


OUTPUT Connection

Connect VIDEO OUT to a video device, e.g. a monitor.
Link the N.C. N.O. connect from the ALARM OUT to other further application devices.



Connect an audio device, e.g. a loudspeaker amplifier, with audio signal from AUDIO OUT in the OUTPUT side. Please use a connector adapter if the connector used is not BNC female type.

Distributor/Retailer



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Made in Taiwan



VDS2800 Installation Manual

Sender
2800-R (Remote Unit)



Viewer
2800-L (Local Unit)

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Introduction

VDS2800 is a transmission system to transmit video, audio, alarm signals, and 12VDC power through one coaxial cable. The system can transmit signals and DC power to 1,000 meters. If a camera is powered at the remote end, without DC power supplying from Viewer Unit, the transmission distance of the VDS2800 can reach 1,200meters.

Features

- One cable transmits all signals and DC power.
- Universal Voltage Input (85V~265V).
- Up to 1,000 meters range with DC power; up to 1,200 meters range if cameras have separate power source.
- Real time analog video signal for color and B/W (50 fps /60 fps), 480 TV lines resolution.
- Built-in electrical transient voltage suppressor(TVS) and gas tube arrester protection on LINK IN and LINK OUT ends.
- Inter-carrier technology eliminates signal interference.

Packing Checklist

Carefully unpack the VDS2800 and check that the following items are included:

- VDS2800-R Sender (Remote Unit)
- VDS2800-L Viewer (Local Unit)
- Power supply (AC to DC power adapter) and power cord
- Four mounting brackets and four screws
- One 1,000 ohms terminator for terminator mode use in Alarm Input side.
- Installation Manual

Contact your dealer immediately if any of the above items appears damaged or the unit does not work.

Certificate

This equipment has been tested and found to comply with the Part 15 rules of the US FCC Regulation, and gets CE approved.

Patents

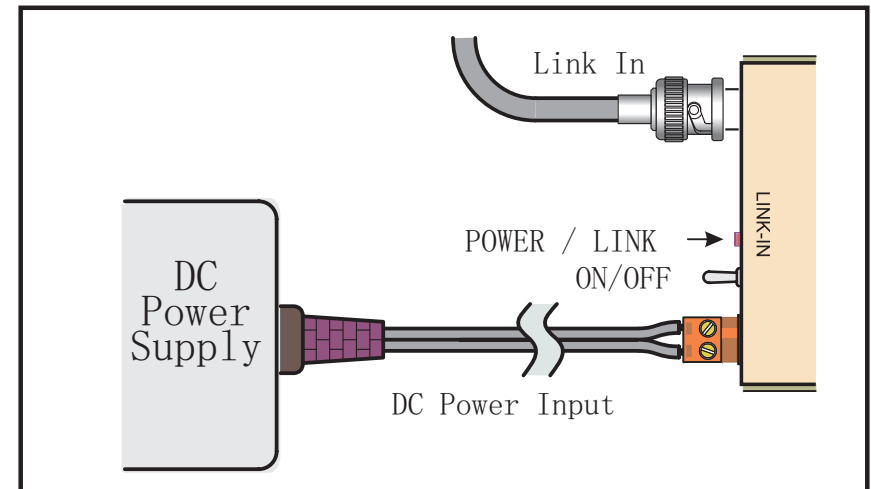
Patents covering the design, operation, techniques, and unique features of the Single-cable transmission device of a surveillance system include: U.S. Patent #US 6,369,699 B1 April 9, 2002; Taiwan Patent #201389 September 3 2004; Europe Patent #EP 1134909 A1 September 19, 2001. Other Patents are

Limited Warranty

Foresight grants a warranty for this product for 18 months. Please offer the purchase date and the serial Number of Bar-Code on the back of the product to your distributor or retailer as proof for this purpose. During the warranty period, in case of defected in material or workmanship, the defective unit will be repaired or replaced according to the assessment of Foresight. However, this warranty does not cover damages caused by improper use or from unauthorized modifications by third parties.

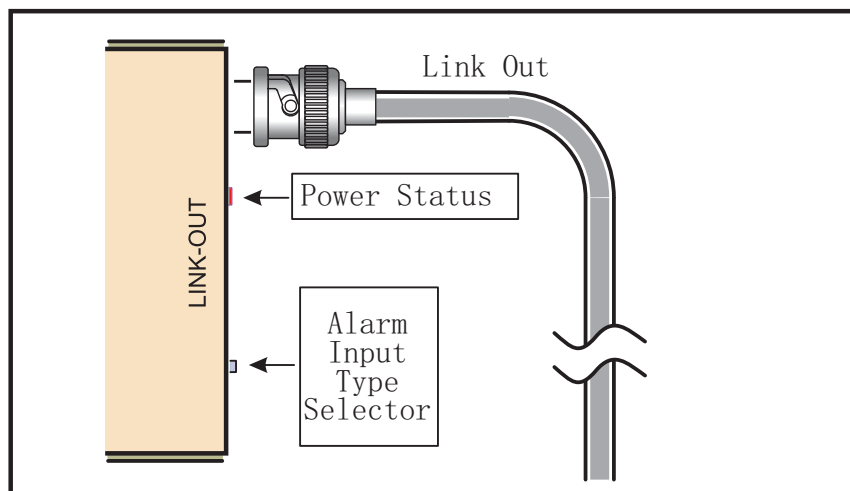
Connecting Viewer unit

The following illustration shows the connections for the Viewer unit:



LINK IN Connection

Connect Link In of Viewer with one end of the coaxial cable, which is connected on the other end with Link Out of Sender.



LINK OUT Connection

Connect the LINK OUT of Sender with one end of a coaxial cable.

Specification of VDS2800-R Sender

To ensure smooth operation of VDS2800, the following minimum system and setup requirements should be met.

Electrical:

Video Input Signal: 1.0Vpp, 75 ohms
 Bandwidth of Video Signal: 5.5MHz typ
 Audio input Signal: 3.0Vpp, max 100K ohms/ Internal Impedance.
 Alarm Input type: N.C./N.O./Terminal 1,000 ohms
 Power Output: DC12V, 1.0 A, max.

Connection: (PTB= Plugable Terminal Block)

Video Input: BNC Socket
 Audio Input: BNC Socket/RCA Phono Socket Optional
 DC and Alarm: 4 Pin PTB, 3.5mm Pitch
 Link Out: BNC Socket

Specification of VDS2800-L Viewer

To ensure smooth operation of VDS2800, the following minimum system and setup requirements should be met.

Electrical:

Video Output Signal: 1.0Vpp, 75 ohms
 Bandwidth of Video Signal: 5.5MHz typ
 S/N ratio of Video Signal: 50dB typ
 Gain of Audio signal Output: 0dB \pm 3dB, 600 ohms / internal impedance
 Bandwidth of Audio Signal: 50Hz to 10KHz \pm 3dB
 S/N Ratio of Audio Signal: 46dB under 1.0Vpp input at RU
 Alarm Output: N.C./N.O., Contact Rating 1A, 30VDC Dry contact
 DC Power Input: 40V
 Max. DC power Output: 38V, 1.6A, min.

Connection: (PTB= Plugable Terminal Block)

Link In: BNC Socket
 DC Power Input: 2 Pin PTB, 5.0mm Pitch
 Video Output: BNC Socket
 Audio Output: BNC Socket/RCA Phono Socket Optional
 Alarm Output: 3 Pin PTB, 3.5mm Pitch

Functions of Remote Unit

VDS2800-R Sender

INPUT side

VIDEO IN:

to receive a video signal from video source, eg. PTZ cameras.

ALARM IN:

to receive alarm connection from devices like sensors or infra-red detective devices. Both N.O. and N.C. are acceptable, even at the same time.

DC OUT:

to send 12VDC power to a camera.

AUDIO IN:

to receive an audio signal from an audio source, eg. a microphone.

LinkOut Side

LINK OUT with DC IN:

to send out video, audio, alarm to the viewer unit and to receive DC power in from the viewer unit.

POWER STATUS LED:

to indicate the power supply condition. When the LED is red, it implies the power supply to camera is stand-by or not been used. When the LED is green, it means the power is loaded well to the camera. When the LED is Yellow, it means the DC power is low. Please check if the cable used is over length limitation or the current consumption of the camera is more than 1.0A (note1). When the LED is flashing, it implies that power supply might failed because the power is too low to offer any function.

ALARM

LED:

to indicate the Alarm Input and Alarm Output are both well working.

CONNECTION INPUT TYPE:

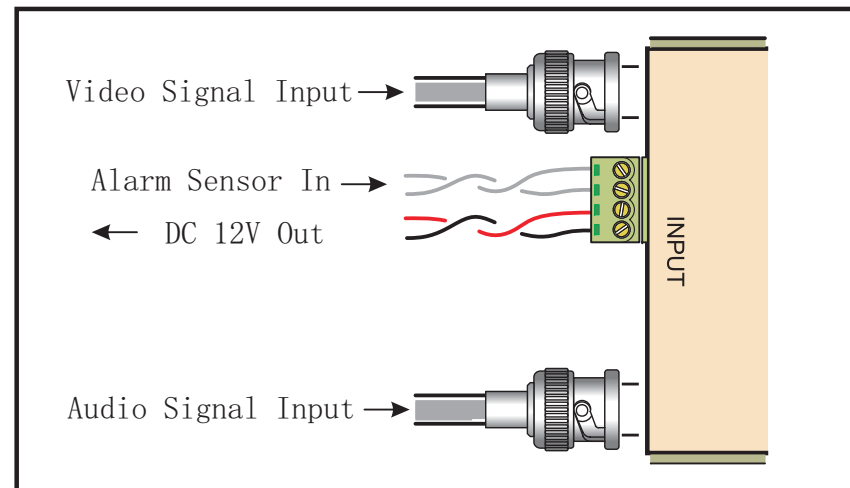
to let users to select which alarm connection type to apply: N.C. or N.O. or TERM (mixed with N.O. and N.C.)

Note 1. The 1.0A is based on the condition of less than 1,000M distances and 5C-2V coaxial cable used.

Please refer to How to Use Alarm manual enclosed.

Connecting Sender unit

The following illustration shows the connections for the Sender unit:



INPUT Connection

Connect video signal from the video source, e.g. a PTZ camera, to VIDEO IN in the INPUT side.

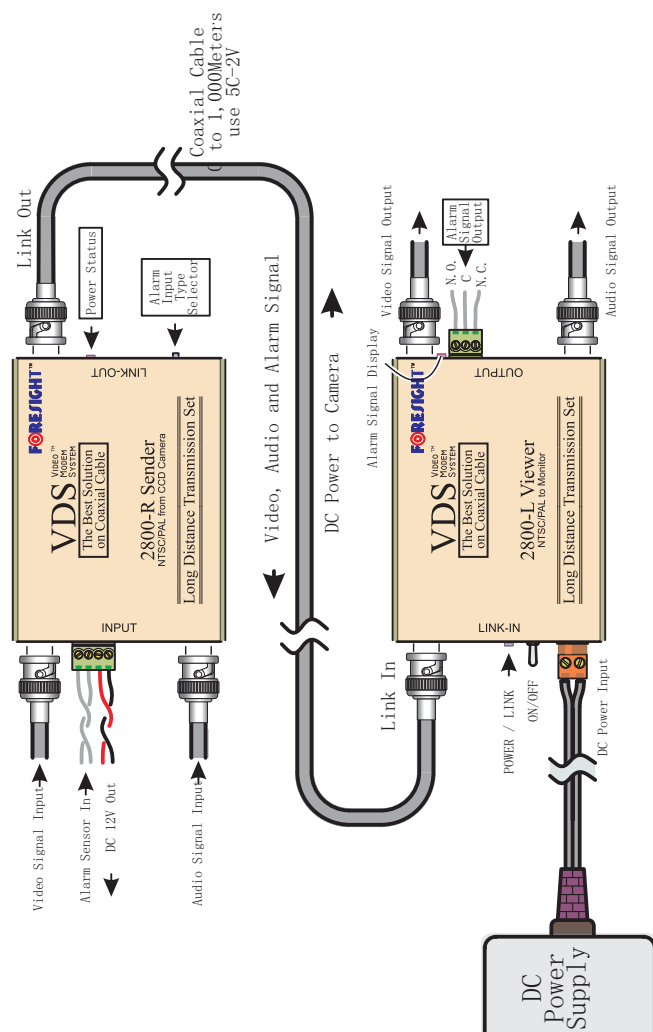
Connect a wire with the N.O./N.C. connection from sensors to the PTB connector ALARM IN in the INPUT side. Please refer to How to Use Alarm manual to improve security and flexibility of alarm connection.

Connect the power cord (DC 12V) from the DC OUT in the INPUT side to the video source, e.g. a PTZ camera.

Connect the audio signal from the audio source to the AUDIO IN of the INPUT side. Please use a connector adapter, if the connector used is not BNC female type.

Making Connection

The following illustration gives an overview of the Sender unit and the Viewer unit connections. Please note always use a coaxial cable to connect to the LINK OUT side of the Sender unit.



Installation Notice

When setting up the VDS2800 Sender unit and Viewer unit, be sure to note the following points:

Both units should be fixed securely to a permanent object such as a wall or a pillar.

Avoid locations with extreme vibrations or dust.

Avoid locations with dampness or extreme heat.

Functions of Local Unit

VDS2800-L Viewer

LINKIN side

LINK IN with DC OUT:

to receive in the video, audio and alarm from the Sender unit and to send DC power out to the Sender unit.

SYSTEM STATUS LED:

When users turn off the system, the LED will be red. When users turn on the system, the LED will be yellow at the first 5 seconds for initial, and then become green. The LED will keep green, when the system is on. When the system is under LINK FAULT situation as mentioned on the last paragraph, the LED will be yellow flash. The yellow flash can be stopped only after the disconnecting situation is solved.

ON/OFF:

to turn on or turn off the system

DC POWER IN:

to input the power from the power supply.

OUTPUT side

VIDEO OUT:

to send the video signal out to a device, e.g. A monitor or DVR

ALARM OUT:

to send the alarm connection out for a further application.

AUDIO OUT:

to send out the audio signal to a device, e.g. monitor or speaker. The audio signal level output from the AUDIO OUT is exactly the same as what the AUDIO IN received at Sender Unit at Sender Unit.

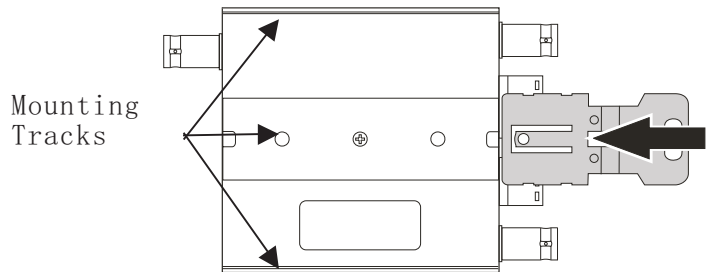
Installation of Remote and Local Units

The VDS2800 units can both be fixed to a wall or desktop with the supplied mounting brackets. The mounting brackets can be fixed onto the rear, top, or bottom of either unit.

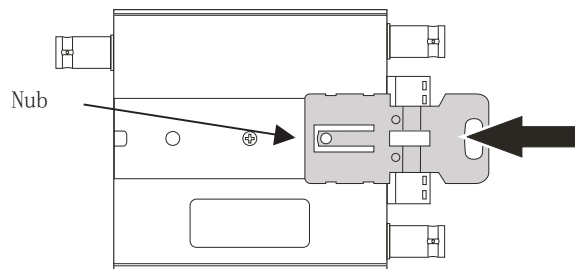
Attaching the Mounting Brackets

Attach the mounting brackets to either the Sender unit or the viewer unit as shown below:

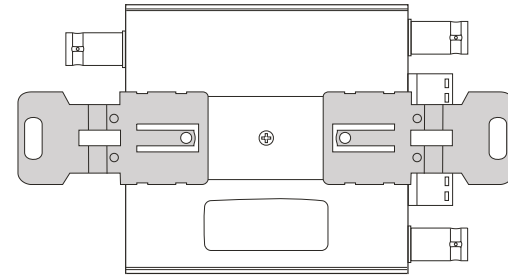
1. Align the mounting bracket with the mounting track on the rear of the unit as shown here:



2. Slide the bracket in the direction of the arrow until the white nub clicks into place as shown below:



3. Repeat the above steps on another side of the unit to attach the second bracket.

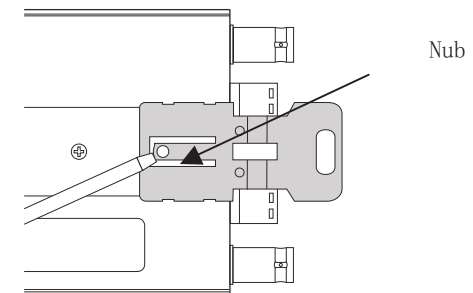


4. Fix the unit in the desired location with two screws.

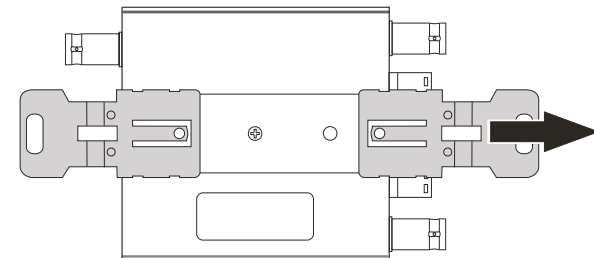
Removing the Mounting Brackets

Remove the mounting as shown below:

1. Use a flat-tipped screwdriver to lift the white nub as shown below:



2. While lifting the nub, slide the bracket out in the direction of the arrow as shown below:



3. Repeat the above steps to remove the second bracket.