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

VDS VIDEO MODEM SYSTEM ™
The Best Solution on Coaxial Cable

What's VDS2700

VDS 2700 is the video signal transmission system to transmit video, alarm, audio, RS-485 data and DC power via one coaxial cable.

VDS 2700 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, VDS 2700 provides an innovative transmission method, simple installation and the highest quality picture transmitted for CCTV system.

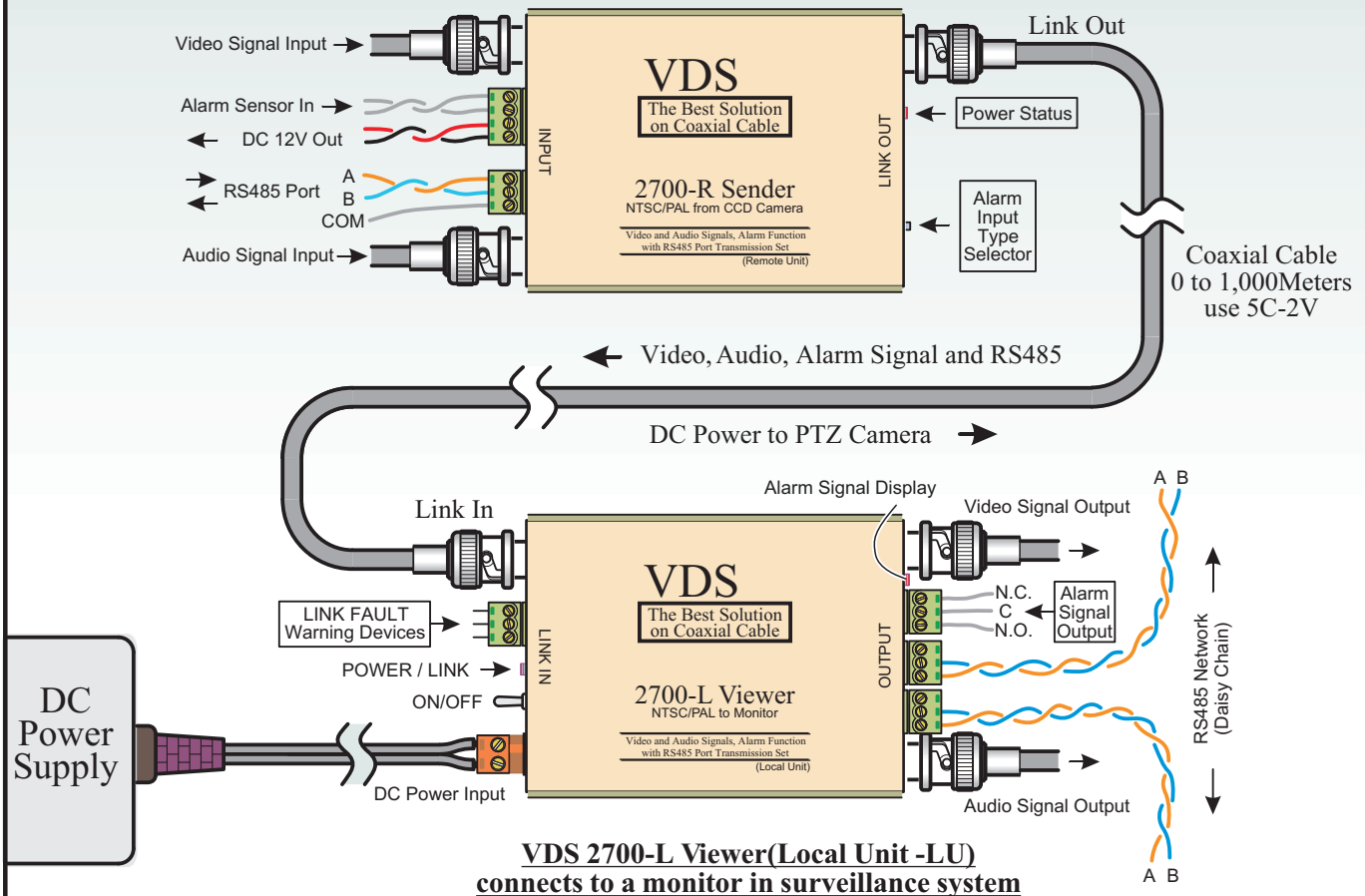Fig. 1 VDS 2700 Transmission Set

Features

1. Half duplex channel for EIA standards RS-485 interface port.
2. The range of RS-485 Transmission Rate is between DC and 38 Kbits
3. Great quality at video signal:
   - Real-time analogue video signals
   - No signal lost, No interference in video
   - No hum, No twist
4. Using 5C-2V (Japan Spec) coaxial cable :
   Transmission distance can reach to 600M while sending the DC power 12V to P/T/Z camera via one coaxial cable.
   Without sending DC power to camera via link coaxial cable :
   Transmission distance can reach to 1,000M with connect to PTZ camera
5. Link Fault alert buzzer inside (Siren sound)
6. Built-in electrical transient voltage suppressor protection in the input and output
7. Link cable lightning protection:
   Equipped with Gas Tube Arrester discharging high current 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. Facing a lot of video, RS485 data and power supply lines, can you image the process of installation?

Contact:
FORESIGHT CCTV INC.

2005-Oct-5, 038ab-000en

Fig. 2 VDS2700 Connection Diagram

VDS 2700-R Sender (Remote Unit -RU)
connects to a PTZ camera

Video Signal Input →

Alarm Sensor In →

← DC 12V Out

→ RS485 Port A
← B
COM

Audio Signal Input →

VDS
The Best Solution on Coaxial Cable

INPUT

2700-R Sender
NTSC/PAL from CCD Camera

Video and Audio Signals, Alarm Function
with RS485 Port Transmission Set
(Remote Unit)

LINK OUT

Link Out

← Power Status

← Alarm Input Type Selector

Coaxial Cable
0 to 1,000Meters
use 5C-2V

← Video, Audio, Alarm Signal and RS485

DC Power to PTZ Camera →

Link In

Alarm Signal Display

Video Signal Output →

A B

LINK FAULT Warning Devices →

POWER / LINK

ON/OFF

VDS
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LINK IN

2700-L Viewer
NTSC/PAL to Monitor

Video and Audio Signals, Alarm Function
with RS485 Port Transmission Set
(Local Unit)

OUTPUT

N.C.
C ← Alarm Signal Output
N.O.

RS485 Network (Daisy Chain)

DC Power Supply

DC Power Input

Audio Signal Output →

A B

VDS 2700-L Viewer(Local Unit -LU)
connects to a monitor in surveillance system

Specification of VDS 2700

Specification

Sender, 2700-R Sender(*Remote Unit -RU*)

Electrical:
Video Input Signal: 1.0Vpp, 75Ω
Bandwidth of Video Signal: 5.5MHz
Audio input Signal: 3.0Vpp, 100KΩ, Max.
Alarm Input Signal: N.C./N.O./Terminal 1,000Ω
Power Output: DC12V, 1.2A, Max.
RS-485 Data Rate: DC(0bps) to 38Kbps

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
RS-485 Port: 3 Pin PTB, 3.5mm Pitch
Link Out: BNC Socket

Mechanism:
Dimension: 100.0mm(L) x 75.0mm(W) x 26.75mm(H)
Net Weight: 225gm

Model Information

VDS 2700   Video, RS-485, Audio and functional Alarm
VDS 2710   Video, RS-485, Audio and Simple Alarm
VDS 2720   Video, RS-485 and Audio
VDS 2730   Video and RS-485

Viewer, 2700-L Viewer(*Local Unit -LU*)

Electrical:
Video Output Signal: 1.0Vpp, 75Ω
Bandwidth of Video Signal: 5.5MHz
S/N ratio of Video Signal: 50dB
Gain of Audio Output: 0dB ±3dB, 600Ω
Bandwidth of Audio Signal: 50Hz to 10KHz
S/N Ratio of Audio Signal: 46dB
RS-485 Data Rate: DC(0bps) to 38Kbps
Alarm Output: N.C./N.O., Contact Rating 1A, 30VDC
DC Power Input: 40V±2V
Max. DC power Output: 38V, 1.4A, Min.
Link Fault Output: 0.15A, Min.

Connection: *(PTB= Plugable Terminal Block)*
Link In: BNC Socket
Link Fault: 3 Pin PTB, 3.5mm Pitch
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
RS-485 Port: 3 Pin PTB, 3.5mm Pitch(2 Set)

Mechanism:
Dimension: 100.0mm(L) x 75.0mm(W) x 26.75mm(H)
Net Weight: 210gm

Safety recognition of VDS 2700

EN 55022
EN 61000-3
EN 61000-4

2005-Oct-5, 038ab-000en

VDS 2500: 2 videos and 2 alarm signals transmission system
Easily transmit two video and two alarm signals by connecting 2 cameras

VDS 2500-R Sender(Remote Unit) / 2500-L Viewer(Local Unit)

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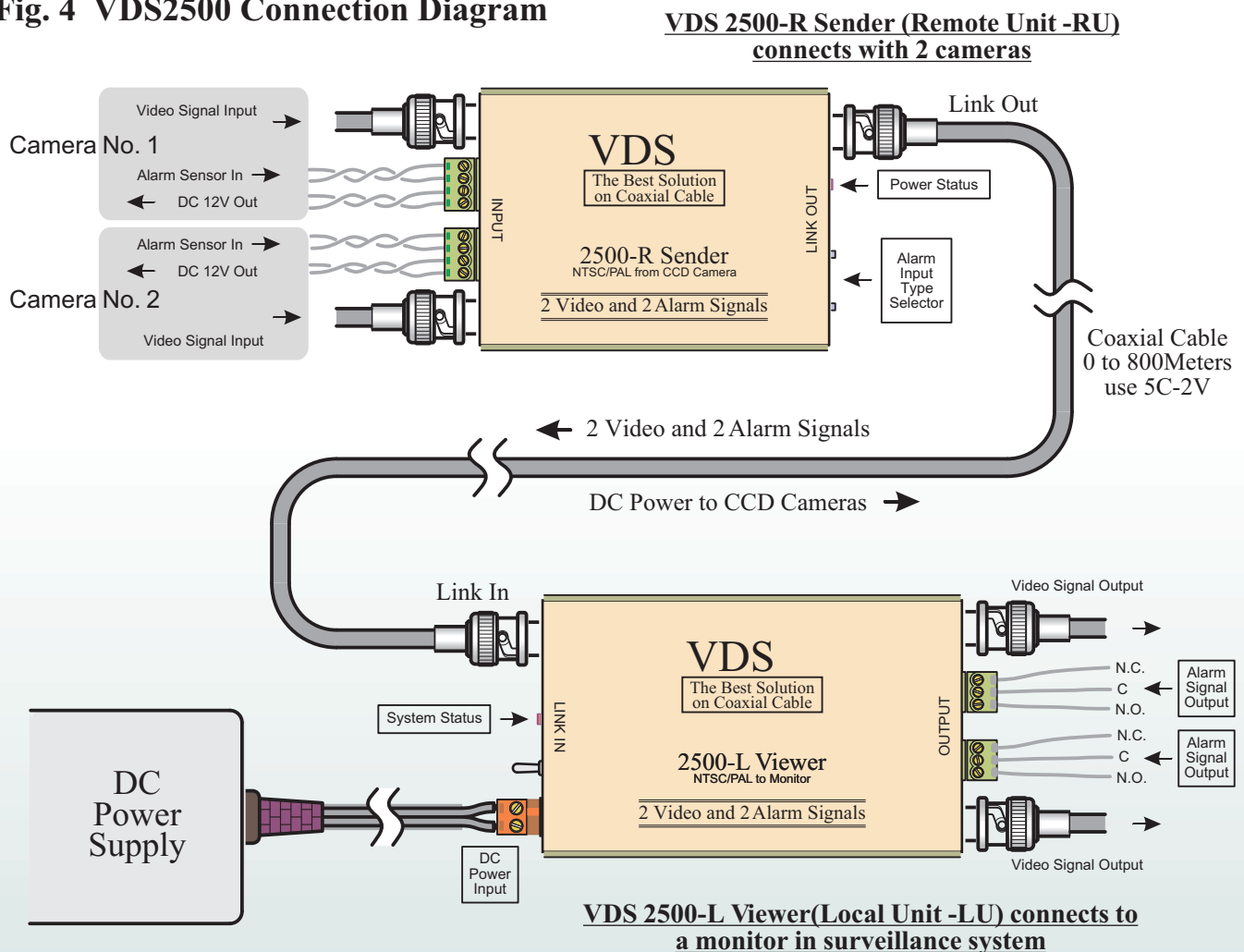
Features

- Two videos and two alarm signals transmission channels.
- Sending DC power with 1.0 amp from Viewer to Sender for 2 cameras reaching to 800M transmission length.
- Selecting NC(Normally Close) or NO(Normally Open) or Terminal Type from Input Alarm sensor contact mode directly.
- AC to DC power supply provides stable and sufficient 12VDC power to 2 cameras.
- Advanced power supply system in Sender provides stable and sufficient power of 12VDC to 2 cameras.
- Powerful protection. While there is Link Fault or disconnection in the cable, the Viewer will not continue to send DC power to the Sender to prevent all 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.

Fig.3 VDS2500 Transmission Set

Fig. 4 VDS2500 Connection Diagram

VDS 2500-R Sender (Remote Unit -RU)
connects with 2 cameras

Camera No. 1
- Video Signal Input
- Alarm Sensor In
- DC 12V Out

Camera No. 2
- Alarm Sensor In
- DC 12V Out
- Video Signal Input

INPUT

VDS
The Best Solution on Coaxial Cable
2500-R Sender
NTSC/PAL from CCD Camera
2 Video and 2 Alarm Signals

LINK OUT

Link Out

Power Status

Alarm Input Type Selector

Coaxial Cable 0 to 800Meters use 5C-2V

← 2 Video and 2 Alarm Signals

DC Power to CCD Cameras →

Link In

LINK IN

System Status

DC Power Supply

DC Power Input

VDS
The Best Solution on Coaxial Cable
2500-L Viewer
NTSC/PAL to Monitor
2 Video and 2 Alarm Signals

OUTPUT

Video Signal Output

N.C.
C
N.O.
Alarm Signal Output

N.C.
C
N.O.
Alarm Signal Output

Video Signal Output

VDS 2500-L Viewer(Local Unit -LU) connects to
a monitor in surveillance system

Low cost for VDS 2100/2200

No lost signal, Innovative, Superior performance, Low cost

VDS 2100-R sender(Remote Unit -RU)
VDS 2200-L viewer(Local Unit -LU)

The VDS transmission system transmits real-time 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.

Local Unit

Advantages

- Completely transmits picture and sound in real-time, using One coaxial cable
- Transmitting AV signals over long distance easily
- Rugged and compact size
- Easy to install and easy to use

Remote Unit

Features

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

VDS 2100/2200 has been used frequently in the surveillance equipment market.

VDS 2800 Transmission Set

An economic and ideal product combines the functions of VDS 2500 and the VDS 2100/2200

- Transmitting video, audio and alarm signals
- Long distance transmission over 1,000M with high signal quality
- DC power 12V is supplied from Local Unit
- Compact size, Rugged device

VDS 3100 Remote Unit Module

This module is designed to be put into the CCD camera and works together with VDS 3100-L Viewer (Local Unit - LU)

- Small size, 33mm(W) x 20mm(H) x 44mm(L)
- Video, Audio and Alarm transmission
- Output DC12V for CCD camera

Foresight offers the Best Solutions on Single Coaxial Cable

Contact
Foresight CCTV , Inc.
info@foresight-cctv.com

Phone: 416-512-6288
Fax: 416-225-2889

Toll Free: 1-888-GO2-CCTV
http://www.foresight-cctv.com

2005-Oct-5, 038ab-000en