



SVIDF201x-100

User's Guide

SVIDF201x-100 Transmitter & S/CVIDF201x-110 Receiver Copper-to-Fiber Video System

- **AM Video**
- **NTSC, PAL, SECAM compatible**
- **Automatic gain control (AGC)**
- **Real-time full color video**
- **Plug-and-play design for easy installation**
- **CCTV video equipment compatible**
- **Supports RS232, RS422, or RS485 pan/tilt/zoom data transmission**

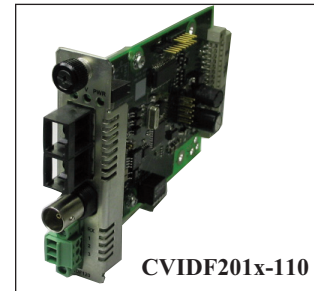
The SVIDF201x-100 video transmitter at the camera end, when paired with the xVIDF201x-110 video receiver at the monitor end, enables the transport of analog CCTV video and pan/tilt/zoom serial data over fiber for extended reach video surveillance or security installations. The sensitivity of the receiver can be adjusted via on-board DIP switch settings to extend fiber distance. The xVIDF201x-110 video receiver receives video signals over fiber; it converts those signals to an analog-composite video stream and outputs that video stream over coax cable to a video monitor. These models feature the following:

- Stand-alone video transmitter model (*only*)
- SC or ST video transmitter fiber port
- One 75-ohm BNC video receiver port
- Pan/tilt/zoom camera capability



SVIDF201x-110

- Stand-alone video receiver model
- SC or ST transmitter fiber port
- One 75-ohm BNC video receiver port
- Pan/tilt/zoom camera capability



CVIDF201x-110

- Chassis video receiver model
- SC or ST transmitter fiber port
- One 75-ohm BNC video receiver port
- Pan/tilt/zoom camera capability

The video transmitter has the following copper connections.

Connector Type	Number	Description
75-Ohm BNC	1	Coax cable, 30.5 m (100 ft)*

Transmitter and receiver models

The various fiber connectors are available on separate models. Single mode and multimode units come in the following configurations.

Transmitter Models (Stand-Alone only)

Model	Optic Fiber	Distance*
SVIDF2011-100	ST, multimode, 850 nm	1 km (0.6 miles)
SVIDF2013-100	SC, multimode, 850 nm	1 km (0.6 miles)
SVIDF2012-100	ST, single mode, 1310 nm	10 km (6.2 miles)

Receiver Models (Stand-Alone Models)

Model	Optic Fiber	Distance*
SVIDF2011-110	ST, multimode, 850 nm	1 km (0.6 miles)
SVIDF2013-110	SC, multimode, 850 nm	1 km (0.6 miles)
SVIDF2012-110	ST, single mode, 1310 nm	10 km (6.2 miles)

Receiver Models (Chassis Models)

Model	Optic Fiber	Distance*
CVIDF2011-110	ST, multimode, 850 nm	1 km (0.6 miles)
CVIDF2013-110	SC, multimode, 850 nm	1 km (0.6 miles)
CVIDF2012-110	ST, single mode, 1310 nm	10 km (6.2 miles)

*Typical maximum cable distance. Actual distance is dependent upon the physical characteristics of the network.

Optional accessory

The WMBJ-V wall-mount bracket is used to mount the SVIDF201x-100 transmitter to a vertical surface.

Part Number	Description
WMBJ-V	Wall-Mount Bracket, L 69.9 mm (2.75 in) W: 63.5 mm (2.5 in)

The WMBS wall-mount bracket is used to mount the SVIDF201x-110 receiver to a vertical surface.

Part Number	Description
WMBS	Wall-Mount Bracket, L 81.28 mm (3.2 in.) W: 12.7 mm (0.5 in.)

Note: The information in this user's guide is subject to change. For the most up-to-date version of the video transmitter and receiver products, download the user's guide from on-line at: www.transition.com.

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Cautions and Warnings

Cautions and warning appear here and throughout the manual where appropriate.

CAUTION: Copper based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are intended to be connected to intra-building (*inside plant*) link segments that are not subject to lightening transients or power faults. Copper based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are NOT to be connected to inter-building (*outside plant*) link segments that are subject to lightening transients or power faults. Failure to observe this caution could result in damage to equipment.

CAUTION: Do not install the media converter in areas exposed to water. Water can cause damage to internal components, resulting in damaged equipment.

CAUTION: Use 75-ohm BNC connectors on 75-ohm cable only. Failure to observe this caution will result in signal degradation.

CAUTION: Observe ESD practices when handling printed circuit boards (PCBs). Failure to observe this caution could result in damage to the PCB.

WARNING: Visible and invisible laser radiation when open. Do not stare into the laser beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.

WARNING: Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

Video System Overview

Figure 1 shows a complete video system containing a SVIDF201x-100 video transmitter (*stand-alone model only*) with a camera attached, connected via fiber optic cable to a SVIDF201x-110 stand-alone receiver with a controller and monitor connected. The controller sends pan/tilt/zoom data to the camera over the fiber cable.

The receiver is also available in a chassis version, model CVIDF201x-110 which installs into a Transition Networks Point System chassis, which is not shown in Figure 1.

Note: For more information about Point System chassis products, we encourage you to visit our website @ www.transition.com

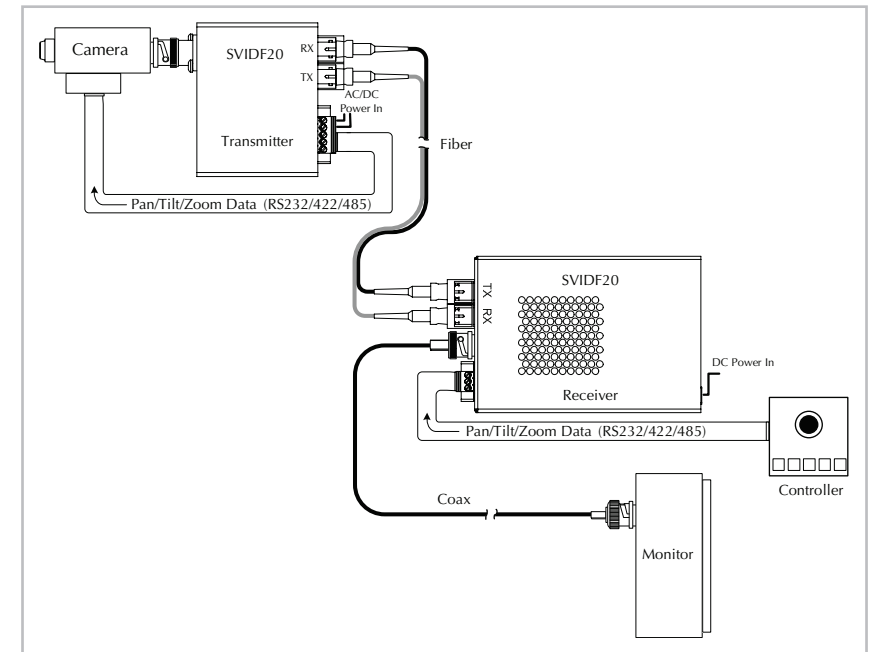


Figure 1: Complete Video System Configuration

Note: The following alphanumeric “xVIDF201x-1x0” is used to include all versions of the transmitter and receiver.

Installation

SVIDF201x-100 video transmitter parts and functions

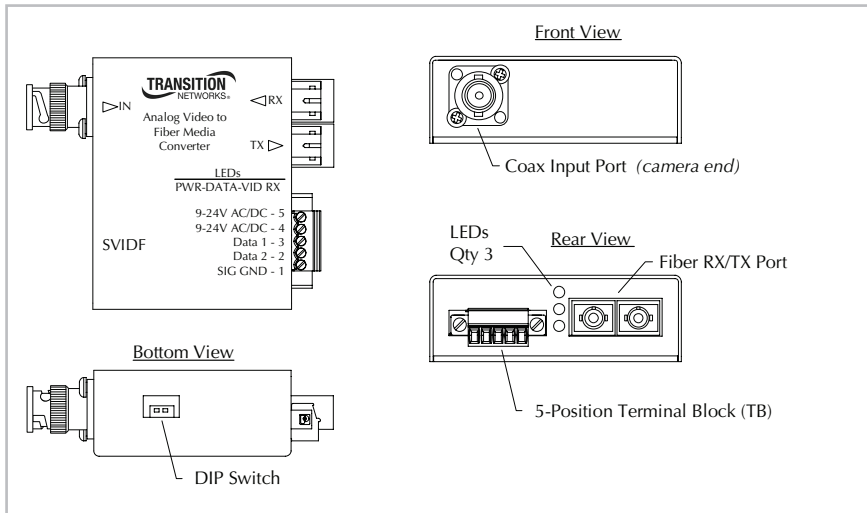


Figure 2: SVIDF201x-100 Video Transmitter Parts

Part	Function
Coax BNC Input Port	<ul style="list-style-type: none"> 75-Ohm BNC single connector accepts coax cable—maximum cable length 30.5 m (100 ft). Supports directly connecting the camera to the BNC port.
Fiber RX/TX Ports	Accepts ST or SC fiber optic cable connections—cable distances up to 20 km (12.4 miles) fiber dependent.
LEDs	<ul style="list-style-type: none"> Power (PWR) Data (pan/tilt/zoom to camera) VID RX (video data from receiver)
5-Position Terminal Block (TB)	<ul style="list-style-type: none"> 9 - 24V AC/DC 5 9 - 24V AC/DC 4 Data 1 (+) 3 RS422/485 Data (wire pins 1,2 & 3) Data 2 (-) 2 RS232 Data (wire pins 1 & 2) SIG GND 1 data signal return
DIP Switch	Two-position switch can be set to RS232 data or RS422/485 data and termination.

Installation -- continued

SVIDF201x-110 video receiver parts and functions

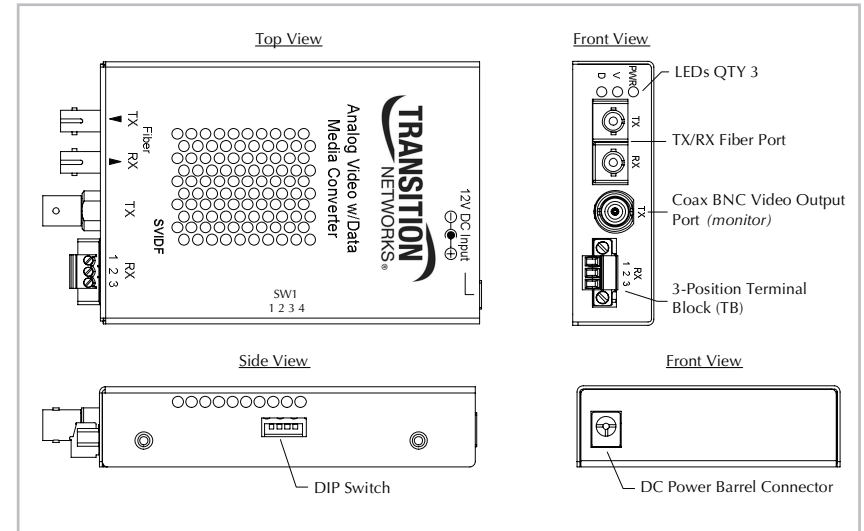


Figure 3: SVIDF201x-110 Video Transmitter Parts

Part	Function
Coax BNC Input Port	75-Ohm BNC single connector accepts coax cable—maximum cable length 30.5 m (100 ft).
Fiber RX/TX Ports	Accepts ST or SC fiber optic cable connections—cable distances up to 20 km (12.4 miles) (fiber dependent).
LEDs	<ul style="list-style-type: none"> Power (PWR) D (Pan/tilt/zoom data to camera) V (video signal from transmitter)
3-Position Terminal Block (TB)	<ul style="list-style-type: none"> Data 1 (+) 1 RS422/485 Data, (wire pins 1,2 & 3) Data 2 (-) 2 RS232 Data, (wire pins 2 & 3) SIG GND 3 (data signal return)
DIP Switch	4-position switch sets termination for RS422/485 data and configures fiber gain to extend fiber distances.

Installation -- continued

CVIDF201x-110 video receiver card parts and functions

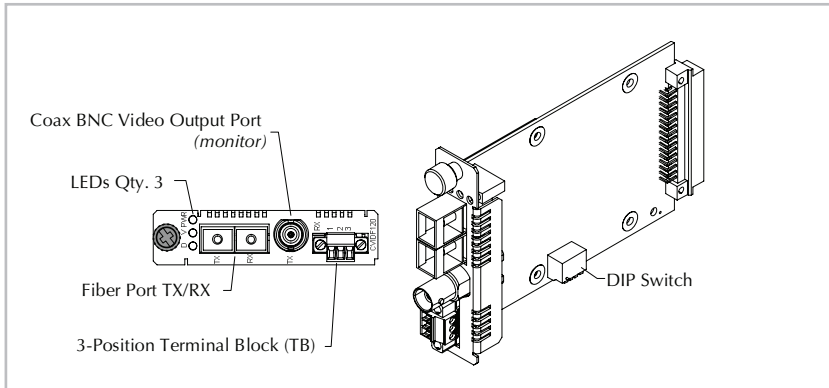


Figure 4: CVIDF201x-110 Point System Chassis Card Video Receiver Parts

Part	Function
Coax BNC Input Port	75-Ohm BNC single connector accepts coax cable—maximum cable length 30.5 m (100 ft).
Fiber RX/TX Ports	Accepts ST or SC fiber optic cable connections—cable distances up to 20 km (12.4 miles) (fiber dependent).
LEDs	<ul style="list-style-type: none"> • Power (PWR) • D (Pan/tilt/zoom data to camera) • V (video signal from transmitter)
3-Position Terminal Block (TB)	<ul style="list-style-type: none"> • Data 1 (+) 1 RS422/485 Data, (wire pins 1,2 & 3) • Data 2 (-) 2 RS232 Data, (wire pins 2 & 3) • SIG GND 3 (data signal return)
DIP Switch	4-position switch sets termination for RS422/485 data and configures fiber gain to extend fiber distances.

Note: The CVIDF201 video receiver card installs into a Transition Networks' Point System chassis. For more information about Point System chassis products, we encourage you to visit our website @ www.transition.com

Installation -- continued

Video transmitter (TX) 5-position terminal block wiring

The SVIDF201x-100 video transmitter comes with an installed 5-position terminal block (*not wired*). Wire the terminal block for data and power in accordance with how the SVIDF20 video transmitter communicates with the camera. Figures 5 and 6 show each wiring scenario.

Wire gauge and strip length

- Use 28-16 AWG wire
- Strip wires according to manufacturing standards

RS232 video TX TB wiring and DIP switch settings

WARNING: Turn OFF the external power source before installing power wires. Failure to observe this warning could result in an electrical shock.

To wire the terminal block for power and RS232 data, also set the DIP switches, do the following:

1. Loosen screws 1, 2, 4, and 5 on the TB, shown in Figure 5.
2. Insert each wire (*power wires first*) one at a time into the terminal block; then tighten the screw to secure the wire.
3. Set DIP switches “1” and “2” UP (*no termination*), as shown in Figure 5.

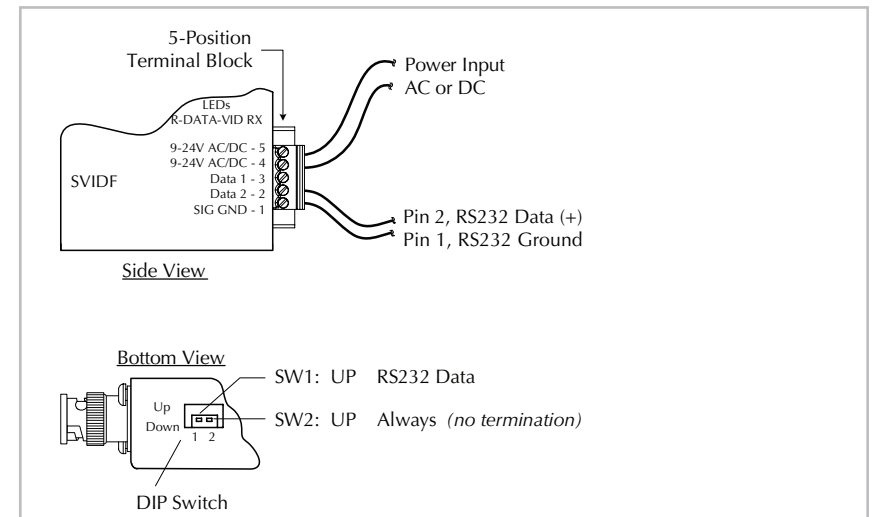


Figure 5: RS232 Transmitter Data TB Wiring and DIP Switch Settings

Installation -- continued

RS422/485 video TX TB wiring and DIP switch settings

Wire gauge and strip lengths

- Use 28-16 AWG wire
- Strip wires according to manufacturing standards

WARNING: Turn OFF the external power source before installing power wires. Failure to observe this warning could result in an electrical shock.

To wire the TB for power and RS422/485 data, and set the DIP switches, do the following:

1. Loosen the 5 screws on the TB, shown in Figure 6.
2. Insert each wire (*power wires first*) one at a time into the terminal block; then tighten the screw to secure the wire.

Note: RS422/485 device connectivity requires termination. When using RS422/485 connectivity in a multiple transmitter configuration, terminate the end device only.

3. Set DIP switches “1 and 2” DOWN for RS422/485 data and termination. See Figure 6.

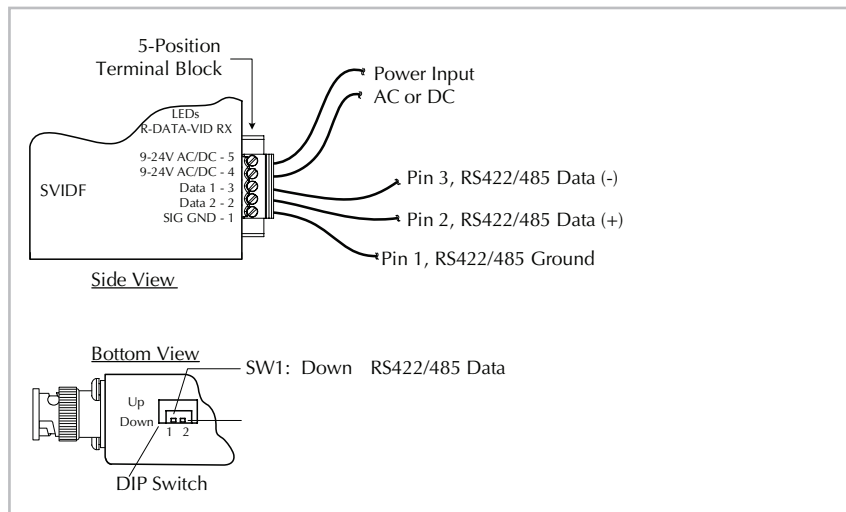


Figure 6: RS422/485 Transmitter Data TB Wiring and DIP Switch Settings

Installation -- continued

Connecting the camera to video transmitter

The camera can be mounted directly to the transmitter or connected via a 75-ohm coax cable with a BNC connector on both ends. When connecting via a 75-ohm coax cable, a BNC female-to-female coupler is required. See Figure 8.

Mounting directly to camera

To mount the camera directly to the transmitter, do the following:

1. Insert the BNC male connector of the transmitter into the BNC connector of the camera. See Figure 7.

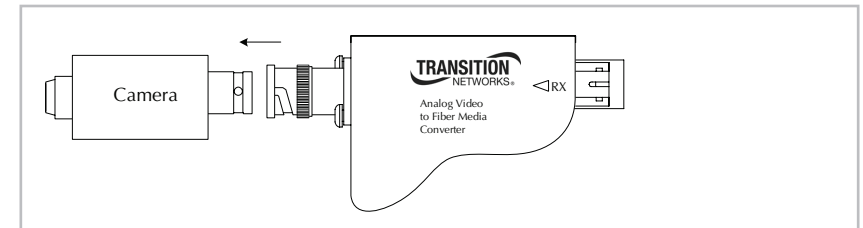


Figure 7: Transmitter Directly Mounted to Camera

Connecting via 75-ohm BNC coax cable

CAUTION: Use 75-ohm BNC connectors on 75-ohm coax cable only. Failure to observe this caution could result in signal degradation.

To connect the transmitter to the camera via a 75-ohm BNC coax cable, do the following:

1. Locate a 75-ohm coax cable with two male BNC connectors.
2. Locate a BNC female-to-female coupler. See Figure 8.
3. Insert the BNC female-to-female coupler into the transmitter, shown in Figure 8.
4. Insert one end of the BNC coax cable into the coupler.
5. Insert the other end of the BNC coax cable into the camera. See Figure 8.

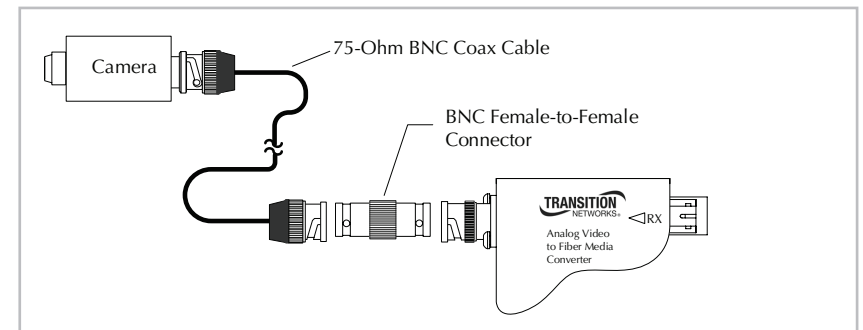


Figure 8: Camera Connected to Transmitter via BNC Coax Cable

Installation -- continued

DIP switches (stand-alone and chassis receiver models)

The 4-Position DIP switch is located on the side of the receiver. See Figure 9. The switches are used to set termination for RS422/485 pan/tilt/zoom data, also to extend fiber distances. See Tables 1a and 1b.

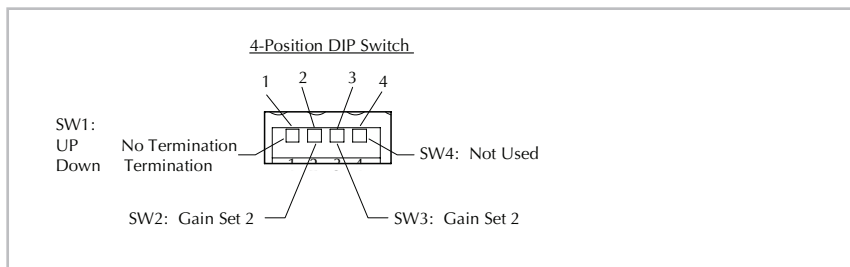


Figure 9: 4-Position DIP Switch on Video Receivers

Table 1a: DIP Switch Position #1

Switch 1	
UP	No-Termination
DOWN	Termination

Table 1b: DIP Switch positions #2, #3, and #4 Extend Fiber Distance

Switch 2	Switch 3	Switch 4	Decibel (db)
UP	UP	N/A	0 db
DOWN	UP	N/A	+3 db
UP	DOWN	N/A	+6 db
DOWN	DOWN	N/A	+9 db

Note: Extending fiber distances of the receiver adds the additional decibel value, shown in Table 1b, to the normal link budget.

Installation -- continued

Receiver (RX) video 3-position terminal block wiring

The xVIDF201x-110 video receiver comes with an installed 3-position TB (*not wired*). Wire the TB for RS232 or 422/485 pan/tilt/zoom data in accordance with how the SVIDF20 transmitter communicates with the camera. Figures 10 and 11 show each wiring scenario.

Wire gauge strip lengths

- Use 28-16 AWG wire
- Strip wires according to manufacturing standards

RS232 RX video data TB wiring and DIP switch settings

To wire the xVIDF201x-110 receiver terminal block for RS232 data and set the DIP switches, do the following:

1. Loosen screws 1 and 2 on the TB, shown in Figure 10.
2. Insert each wire one at a time into the terminal block; then tighten the screw to secure the wire.
3. Set the DIP switch “1” UP (*no termination*), as shown in Figure 10.

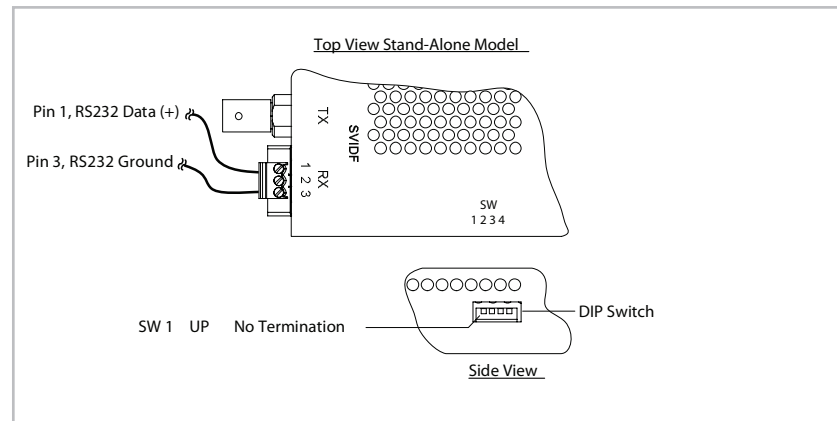


Figure 10: RS232 Video Receiver Data TB Wiring and DIP Switch Settings

Installation -- continued

RS422/485 RX video data TB wiring and DIP switch settings

Wire gauge strip lengths

- Use 28-16 AWG wire
- Strip wires according to manufacturing standards

To wire the xVIDF201x-110 receiver terminal block for RS422/485 data, and set the DIP switches, do the following:

1. Loosen the 3 screws on the TB, shown in Figure 11.
2. Insert each wire one at a time into the terminal block; then tighten the screw to secure the wire.

Note: RS422/485 device connectivity requires termination. When using RS422/485 connectivity in a multiple transmitter configuration, terminate the end device only.

3. Set DIP switch SW "1" DOWN (*termination*) when using one receiver, as shown in Figure 11.

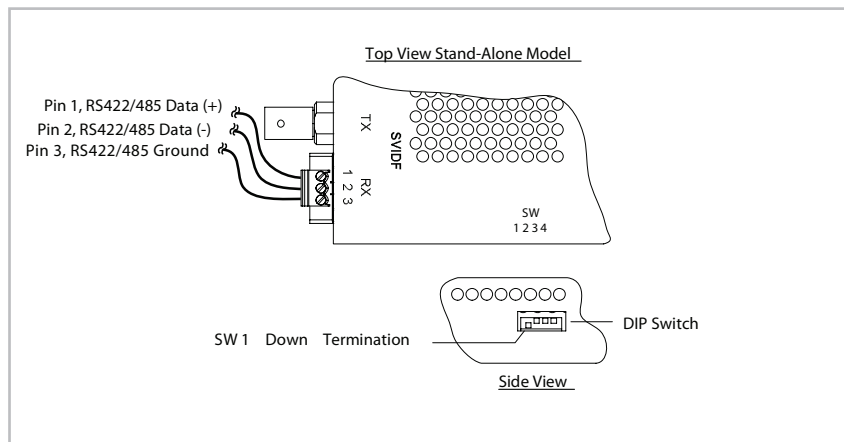


Figure 11: RS422/485 Receiver Data TB and DIP Switch Settings

Installation -- continued

Connecting video receiver to monitor

To connect the video receiver to the monitor, do the following:

1. Locate a 75-ohm coax cable with two BNC connectors at each end.
2. Insert the coax cable into the receiver and monitor, as shown in Figure 12.

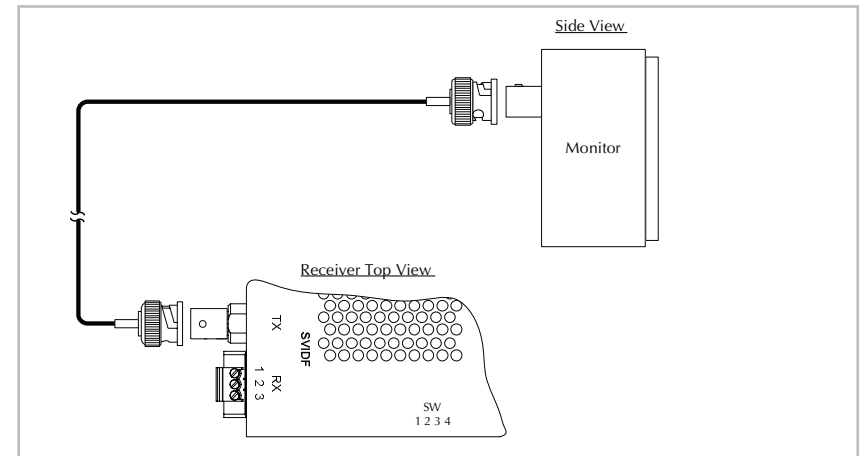


Figure 12: Receiver to Monitor 75-ohm Coax Cable Connection

Connecting power to stand-alone video receiver

To connect power to the SVIDF201x-110 receiver, do the following:

1. Locate the external DC power supply shipped with the video receiver.
2. Insert the barrel connector on the power cord of the external DC power supply into the receiver, as shown in Figure 13.

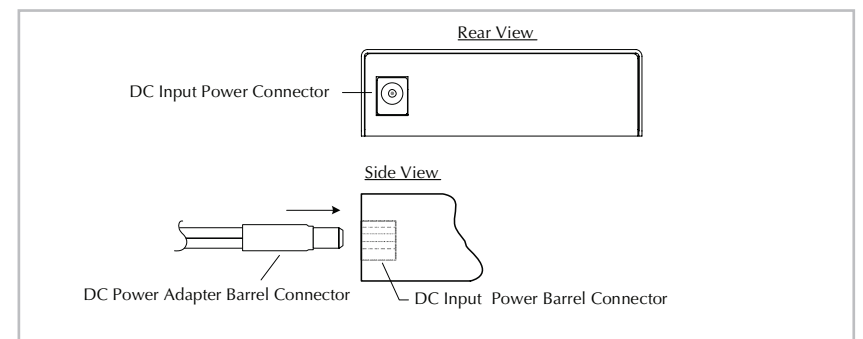


Figure 13: Connecting External Power

Powering chassis video receiver card

Note: The CVIDF201x-110 receiver card is powered by the Point System chassis.

CAUTION: Observe proper ESD practices when handling printed circuit boards (PCBs). Failure to observe this caution could result in damage to the PCB.

To insert the CVIDF201x-110 video receiver into a Point System chassis, do the following:

1. Position the video receiver card as shown in Figure 14.
2. Slide the receiver card fully into the chassis.
3. Turn the mounting screw clockwise to secure the card to the chassis.

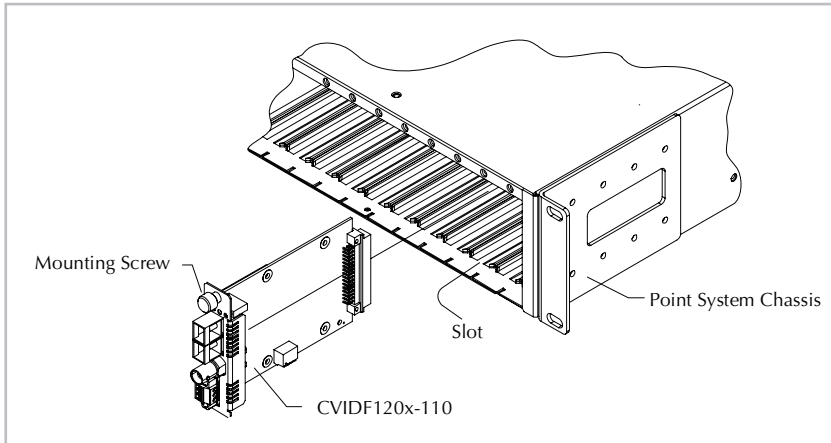


Figure 14: Inserting Video Receiver Card into Point System Chassis

Installation -- continued

Connecting fiber cable from transmitter to receiver

WARNING: Visible and invisible laser radiation when open. Do not stare into the laser beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.

To connect the fiber cable from the video transmitter to the video receiver, do the following:

1. Locate a two-strand fiber optic cable.
2. Connect the ports of the video transmitter and video receiver devices: TX to RX in both direction, as shown in Figure 15.

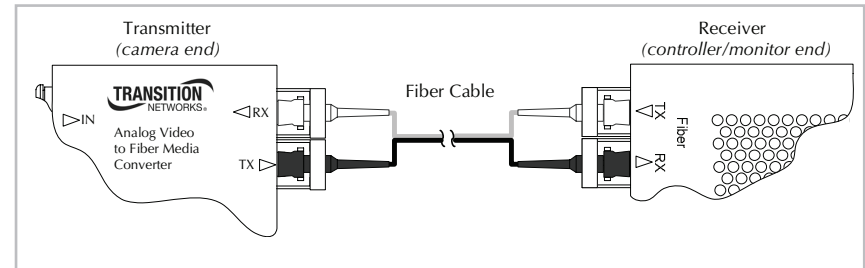
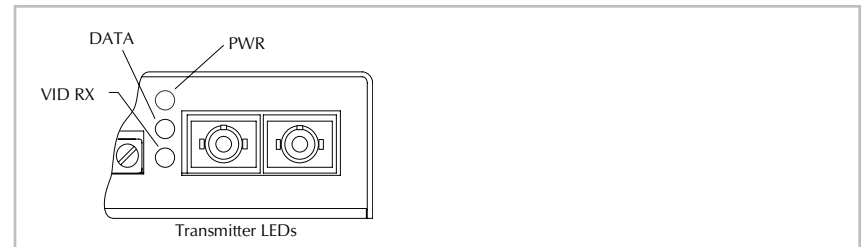


Figure 15: Transmitter to Receiver Fiber Cable Connection

Operation

The xVIDF201x-1x0 video system is operational when the camera image at the transmitter end appears on the monitor at the receiver end. Also, from the controller at the receiver end, when you can pan, tilt, and zoom in and out the camera. If any of these functions fail, see the Troubleshooting section. The operational state of the LEDs for the receiver and transmitter are shown and explained in Figures 16 and 17.

Video transmitter LED functions

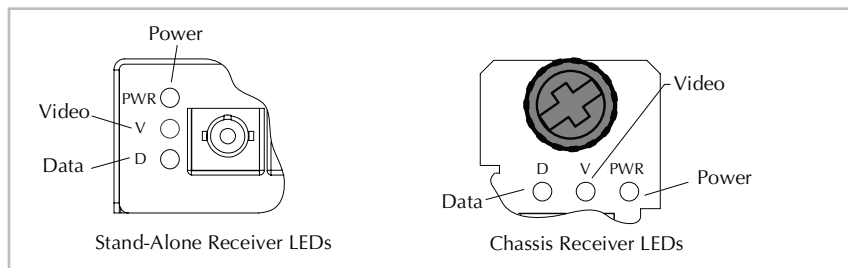


LED	Function
Power (PWR)	ON Power; OFF = no power
Data	ON fiber link; OFF = no fiber link; FLASHES receiving data
VID RX (receive)	ON fiber link; OFF = no fiber link

Figure 16: Transmitter LEDs

Operation -- Continued

Video Receiver LED functions (stand-alone and chassis models)



LED	Operation
Power (PWR)	ON Power; OFF = no power
V (Video)	= ON fiber link; OFF = no fiber link
D (Data)	OFF no data; FLASHES = sending data

Figure 17: Receiver LEDs

Cable specifications

Coax cables

RG Type:	RG-59, RG-6
Gauge:	18–25, single conductor
Impedance:	75 ohms
Distance:	30.48 M (100 ft) Max

Fiber cables

Single Mode	9/125μ
Multimode	62.5/125μ

Multimode (ST/SC)	Receiver
Wavelength:	850 nm
Link Budget:	8.0 db

Single Mode (ST)	Receiver
Wavelength:	1310 nm
Link Budget:	12.0 db

Note: Link budgets are specified for normal distances only. For extend distances, see Table 1b, DIP Switch setting section for the receivers.

Technical Specifications

Use 75-ohm BNC connectors on 75-ohm cable only.

Transition Networks models SVIDF201x-100 video transmitter specifications.

Video formats:	NTSC, PAL, SECAM
Compliance:	CE Mark; See Declaration of Conformity

Video spec

Output Video:	1-volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 10 MHz
Differential gain:	< 5 %
Differential phase:	< 5°
Tilt:	<1%
Signal/noise ratio:	60dB
Data formats:	RS232, RS422, RS485
Data rate:	110 b/s – 115 kb/s (serial)
Safety compliance:	Unit: CE Mark
Power supply:	External 12VDC @ 0.5A; 6 W (receiver)
Power input range:	9 – 24VDC or 9 – 24VAC (transmitter)
Power consumption:	2 watts (transmitter and receiver)
Operating temperature:	-25°C to +75°C (-13°F to 167°F) transmitter

-0°C to +60°C (32°F to 140°F) receiver

Storage temperature: -25°C to 85°C (-13°F to 185°F)

Humidity:	5% to 95%, non-condensing
Altitude:	0 to 10,000 feet

Dimensions:

Transmitter 2.9 in x 3.0 in x 1.0 in (74 mm, 76 mm, 25 mm)

Receiver 3.3 in x 4.8 in x 1.0 in (84 mm, 122 mm, 25 mm)

Shipping weight: 1 to 2 lbs (45 to 90kg) model dependent

Warranty: Lifetime

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WARNING: Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION: Copper based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are intended to be connected to intra-building (inside plant) link segments that are not subject to lightning transients or power faults. Copper based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are NOT to be connected to inter-building (outside plant) link segments that are subject to lightning transients or power faults. Failure to observe this caution could result in damage to equipment.

Troubleshooting

Troubleshooting the xVIDF201x-1x0 transmitter and receiver video monitoring system should be done from the systems perspective. See Figure 18.

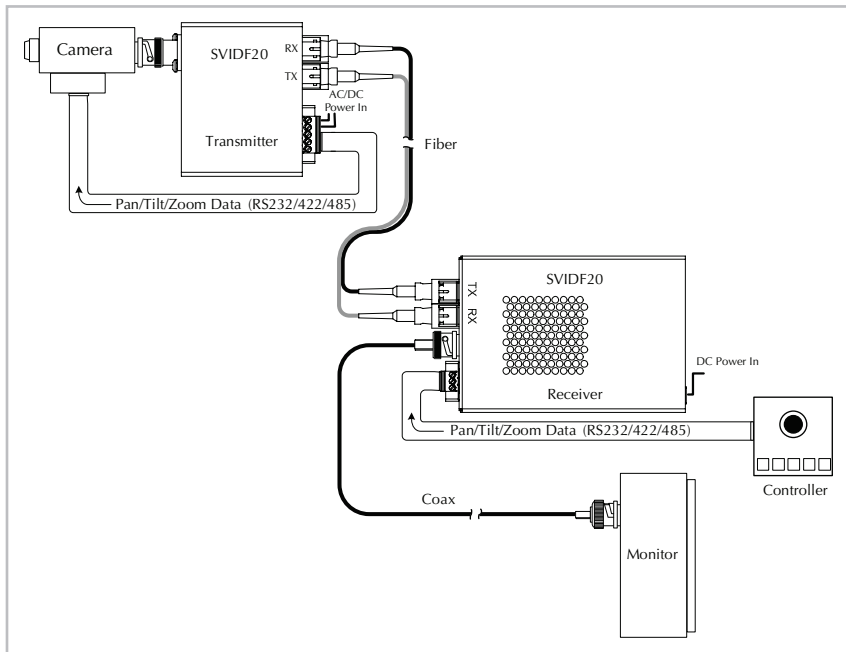


Figure 18: Video System Configuration

Note: The system is functioning properly when the image from the camera is accurately presented on the monitor; also, the controller at the receiver end can send pan/tilt/zoom commands to function the camera mechanically.

Troubleshooting -- continued

Video transmitter and receiver LED statuses upon power up

Upon system power up: Power, Data, and VID RX LEDs on the transmitter should be ON; the Power (PWR) and Video (V) LEDs on the receiver at the controller end should be ON. See Figure 19.

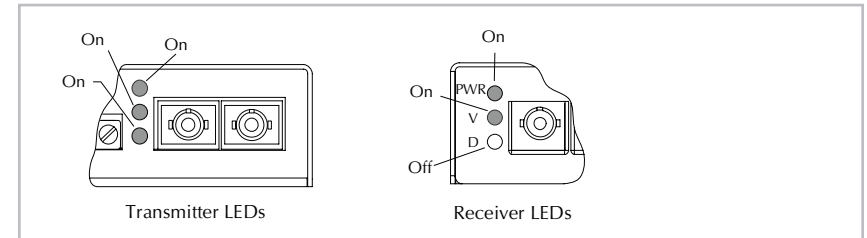


Figure 19: Power UP Transmitter and Receiver LED Status

Problems and things to check

- If either power LED is not lit:
 - Check that the main power source is active for both devices.
 - Check that the power adapter for both devices is plugged into an active AC source.
 - Check that the terminal block on the video transmitter (*pins 4 & 5*) have stripped wires inserted.
 - At the receiver end, ensure that the power adapter power-cord barrel (*for standalone models only*) is fully insertion into the barrel connector on the rear of the stand-alone receiver.
 - At the receiver end, if using a video chassis receiver card, ensure that the card is fully inserted into the chassis.
 - Contact technical support 24-Hour Technical Support: 1-800-260-1312 -- International: 00-1--952-941-7600.
- If the transmitter VID RX LED is not lit:
 - When the video transmitter is directly mounted to the camera: check that the transmitter is fully inserted onto the camera's BNC connector.
 - When the video transmitter is connected to the camera via a coax cable, check that the cable is properly inserted into the camera and video transmitter.
 - Check that power is turned ON to the camera.
 - Contact technical support 24-Hour Technical Support: 1-800-260-1312 -- International: 00-1--952-941-7600.

Troubleshooting -- continued

Problems and things to check -- continued

3. If the monitor does not show the camera's image:
 - Check that the receiver's video (V) LED is lit.
 - Check that the fiber cable from the video transmitter fiber TX port is properly connected to the receiver's fiber RX port.
 - Check that the monitor is plugged into power and turned ON.
 - Check that the BNC coax cable is properly connected from the video receiver to the monitor.
 - Contact technical support 24-Hour Technical Support: 1-800-260-1312 -- International: 00-1--952-941-7600.
4. If the transmitter data LED is not lit:
 - Check that the video receiver's TX port's fiber cable is properly connected to the video transmitter's RX fiber port.
 - Check that power is turned ON to the receiver (*PWR LED*).
 - Contact technical support 24-Hour Technical Support: 1-800-260-1312 -- International: 00-1--952-941-7600.
5. If the camera will not function (*pan/tilt/zoom*) mechanically:
 - Check that the TB on the video transmitter is wired properly for RS232 or 422/485 data. (*see Installation section "wiring the 5-position terminal block."*)
 - Check that the 3-position TB on the xVIDF201x-110 video receiver is wired properly for RS232 or 422/485 data. The wiring sequence is the same as that of the SVIDF201x-100 video transmitter's TB.
 - Check that the DIP switches are properly set up for RS232 data or RS422/485 data.
 - Contact technical support 24-Hour Technical Support: 1-800-260-1312 -- International: 00-1--952-941-7600.

Contact Us

Technical support

Technical support is available 24 hours a day.

US and Canada: 1-800-260-1312

International: 00-1-952-941-7600

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Address

Transition Networks

10900 Red Circle Drive, Minnetonka, MN 55343, U.S.A.

telephone: 952-941-7600, toll free: 800-526-9267, fax: 952-941-2322

Declaration of Conformity

TRANSITION NETWORKS		Declaration of Conformity	
Name of Mfg:	Transition Networks 10900 Red Circle Drive, Minnetonka MN 55343 U.S.A.		
Model:	SVIDF201x-100 Transmitter & xVIDF201x-110 Receiver		
Part Number(s):	SVIDF2011-100, SVIDF2012-100, SVIDF2013-100 SVIDF2011-110, SVIDF2012-110, SVIDF2013-100, CVIDF2011-110, CVIDF2012-110, CVIDF2013-100		
Regulation:	EMC Directive 89/336/EEC		
Purpose:	To declare that the SVIDF201x-100 Transmitter and xVIDF201x-110 Receiver to which this declaration refers is in conformity with the following standards: CISPR 22:1997+A1:2000 + A2:2003; EN 55022:1998+A1:2000 + A2:2003; EN55024:1998+A1:2000 + A2:2003; Class A; FCC part 15 subpart B; 21 CFR subpart J		
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).			
 Stephen Anderson, Vice-President of Engineering			August 2008 Date

Compliance Information

FCC regulations

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

Canadian regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.
Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European regulations

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

ACHTUNG! Dieses ist ein Gerät der Funkstörwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten. In diesem Fall ist der Benutzer für Gegenmaßnahmen verantwortlich.

ATTENTION! Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



In accordance with European Union Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, Transition Networks will accept post usage returns of this product for proper disposal. The contact information for this activity can be found in the 'Contact Us' portion of this document.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

Der Anschluss dieses Gerätes an ein öffentliches Telekommunikationsnetz in den EG-Mitgliedstaaten verstösst gegen die jeweiligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.

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