

Product Specification

4-Ch 1080P HD-CVI/TVI/AHD Video Fiber Converter

LIG-4FV1D485-SC



PRODUCT OVERVIEW

The 4-Channel HD-CVI/TVI/AHD Video Fiber Converter is designed for real-time transmission of four HD analog video channels over a single optical fiber. Supporting HD-CVI, HD-TVI, and AHD video formats, the converter delivers uncompressed, lossless video transmission with high reliability and excellent image quality.

The device automatically detects the input video format and provides stable long-distance transmission through either single-mode or multimode fiber. LED status indicators enable quick system monitoring, while the compact plug-and-play design allows for easy installation in a wide range of surveillance applications.

KEY FEATURES

- Simultaneous transmission of 4-channel HD-CVI, HD-TVI, or AHD video over one optical fiber
- Supports non-compressed, real-time video transmission
- Automatic detection of HD-CVI, HD-TVI, and AHD video formats
- Supports simultaneous transmission of video signals and control data over coaxial cable
- Compatible with video resolutions:
 - 720p @ 25/30/50/60fps
 - 960p
 - 1080p @ 25/30fps
- LED indicators for power, optical link, and operating status
- Wide operating temperature for industrial environments
- DC 5V power input
- Plug-and-play design for fast and simple installation
- Available for standalone or rack-mount installation

APPLICATIONS

- City surveillance systems
- Safe city and public security monitoring
- Highway surveillance and toll collection systems
- Commercial buildings and campus security
- Industrial monitoring systems
- Airports
- Chemical plants
- Steel mills
- Oil & gas facilities
- Railways
- Water conservancy projects
- Mining sites
- Military and defense surveillance
- Power utility and oilfield monitoring systems
- Stadiums and large venues for live video transmission

SPECIFICATIONS

Model	LIG-4FV1D485-SC	
Category	Parameter	Specification
Optical	Fiber Type	Single-mode or Multimode Fiber
	Fiber Connector	SC (FC for option)
	Optical Wavelength	Transmitter: Tx 1310nm / Rx 1550nm
		Receiver: Tx 1550nm / Rx 1310nm
	Max. Transmission Distance	20 km
Video Input (Transmitter)	Video Channels	1 / 2 / 4 / 8 BNC Channels
	Video Input Level	>500 mVp-p
	Video Input Impedance	75 Ω
	Automatic Cable Equalization	1080p: Up to 300 m over 75-5 Coaxial Cable 720p: Up to 500 m over 75-5 Coaxial Cable
Video Output (Receiver)	Video Channels	1 / 2 / 4 / 8 BNC Channels
	Video Output Level	1 Vp-p
	Video Output Impedance	75 Ω
Data	Transmission Medium	Terminal Block
	Data Rate	1200 ~ 9600 bps
	Communication Mode	Half Duplex
	Bit Error Rate (BER)	$\leq 10^{-9}$
	LED Indicators	PWR, VIDEO, DATA, LOS
	MTBF	>100,000 Hours
Power	Power Supply	DC 5V
	Power Consumption	≤ 5 W
Environmental	Operating Temperature	-40°C to +75°C
	Operating Humidity	10% to 90% RH (Non-condensing)
	Atmospheric Pressure	86 kPa to 106 kPa
Mechanical	Installation	Standalone or Rack Mount Installation

PACKING LIST

- 1x Transmitter
- 1x Receiver
- 1x User's Guide
- 1x Warranty Card

ORDER INFORMATION

Model	Description
LIG-4FV1D-T/R	4ch HD-CVI/TVI/AHD 1080P
LIG-4FV1D485-T/R	4ch HD-CVI/TVI/AHD 1080P, 1ch Reverse RS485 Data
LIG-4FV2D485-T/R	4ch HD-CVI/TVI/AHD 1080P, 2ch Reverse RS485 Data

** Notice*

SULINK reserves the right to make changes to this product in this specification without notice, in order to improve product performance.