



SWV61100 Series

Hi-Definition Analog Video

TVI/CVI/AHD to Fiber Converter

- Lossless non-compression real time transmission
- Automatically identify formats of input video: AHD/TVI/CVI/PAL/NTSC/SECAM
- Support 720P/25/30/50Hz, 960P/25/30Hz, 1080P/30Hz
- Advanced lightning protection design, support 5.7KV lightning protection
- Through LED indicators to inform its functional mode
- Industrial wide range of operational temperature
- Stand-alone or Rack-mounted, simple installation



Introduction

Our 1-Ch TVI/CVI/AHD TO Fiber Converters is universal type supporting High Definition Analog video format HD-TVI/HD-CVI/AHD, can simultaneously transmit 1 channels video and 1-ch RS485 over one core multimode or single-mode optical fiber. It also supports the regular analog video format such as PAL/NTSC/SECAM; it is a kind of universal fiber transmission solution/product for CCTV analog video/data signals. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status.

Specification

Optics	Wavelength: WDM:1310nm/1550nm Output Power: -8~3dBm Optic fiber: 50/125u multimode, 62.5/125u multimode, 9/125u single mode Rx sensitivity: -23dBm Optical connector: FC, ST, SC (optional) Distance: 0~550M (MM)/0~80KM (SM) (Default distance is 20Km)
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Number of Channels: 1
Input/output impedance: 75 Ohm (unbalance)
Standard video input/output voltage: 1.0Vp-p
Video Bandwidth: 50MHz
Sampling Bandwidth: 8bit
Sampling Frequency: 100MHz
Signal to noise ratio: >67dB
Rise and Fall time: <0.8ns
Optical Signal Intrinsic Jitter: <0.2 UI
Differential Gain: < $\pm 1.5\%$
Differential Phase: < $\pm 1^\circ$
Connector: BNC

Video

720P Support video pixel:

1280(H)x720(V)@30Hz/1MPX
1280(H)x960(V)@30Hz/1.3MPX

1080P Supporting video pixel:

1280(H)x720(V)@30Hz/1MPX
1280(H)x720(V)@50Hz/1MPX
1280(H)x960(V)@30Hz/1.3MPX
1920(H)x1080(V)@30Hz/2MPX

Data	Protocol: Default: RS485 (RS232/RS422 Optional) Number of channels: 1 Connector: 5pins Terminal Blocks Data Rate: 0-200Kbps Directions: Default: Simplex from Rx to Tx (BIDI duplex optional)
Mechanical Structure & Environment	Power: DC5V 2A Power Consumption: ≤6W Working Temperature: -15°C ~65°C Storage Temperature: -40°C ~85°C Relative Humidity: 5%~95% (no condensation) MTBF: ≥ 100000Hours

Ordering Information

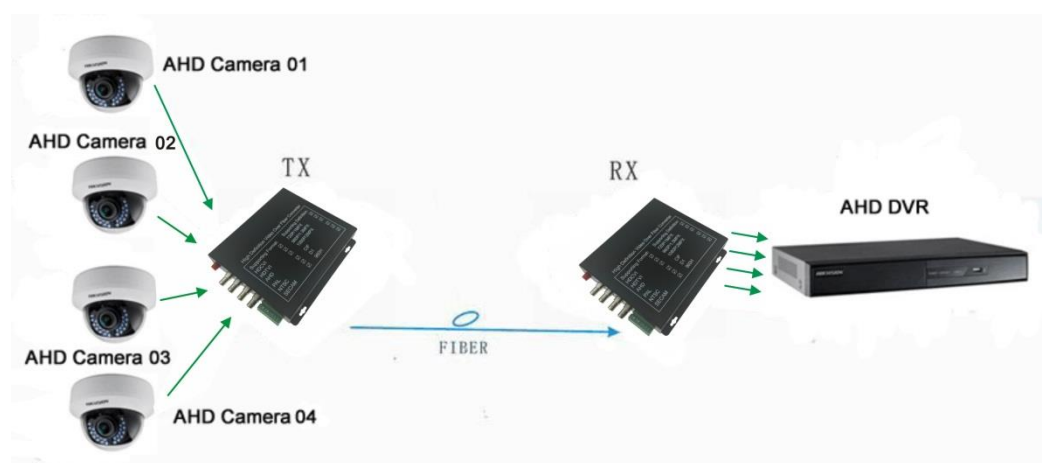
Model Number	Product Configuration	Remark	Fiber Mode	Wavelengths	Transmission Distance
SWV61100	1Ch Forward AHD Video 1080P	FC/SC/S T	Single-mode	1310 nm	20Km
SWV61101	1Ch Forward AHD Video 1080P +1Ch Reverse Data	FC/SC/S T	Single-mode	WDM 1310/1550 nm	20Km

Options	
1	standard definition/720P/1080P
2	1A ↓ 1 reverse audio
3	1A ↑ ↓ 1 bi-directional audio
4	1D ↑ 1 positive data (RS-485/422/232)
5	1D ↓ 1 reverse data (RS-485/422/232)
6	I/O 1 I/O
7	FXS/FXO 1 FXS/FXO
8	Ethernet 1 Ethernet
9	2U 16" rack, redundant power
10	4U 18" rack, redundant power

Packing information

Dimensions of products (Pcs per Tx or Rx)					
Module name	Configuration	Long (mm)	Wide(mm)	High(mm)	Volume(mm ³)
SWV61100	1-Ch video 1080P	108	102	27	297432
SWV61101	1-Ch video 1080P + 1-Ch RS485 data	108	102	27	297432
Shipping weight (pair /Tx+Rx & power adaptors & packages)					
Module name	Configuration	weight (kg)		Package type	
SWV61100	1-Ch video 1080P	0.95		Carton box	
SWV61101	1-Ch video 1080P + 1-Ch RS485 data	1.0		Carton box	

Typical Application



Remark

- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter for stand-alone units is manufactured by third party .Power adapter included US, European, UK or Australian power plug.
- Please feel free to contact factory for any special requirement and customization



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Please scan our QR code for more details

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