SWV61800 Series

Hi-Definition Analog Video

TVI/CVI/AHD to Fiber Converter

- Lossless non-compression real time transmission
- CWDM technology offer 3.2G bandwidth to each 4chs video, support higher performance
- 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 8-Ch TVI/CVI/AHD to Fiber Converters is universal type supporting High Definition Analog video format HD-TVI/HD-CVI/AHD, can simultaneously transmit 8 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: CWDM: 1310nm/1550nm/1490nm 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)
Video	Number of Channels: 8 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: < ±1.5% Differential Phase: < ±1° Connector: BNC 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: 9pins 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℃~65℃ Storage Temperature: -40℃~85℃ Relative Humidity: 5%~95% (no condensation) MTBF: ≥ 100000Hours

Ordering Information
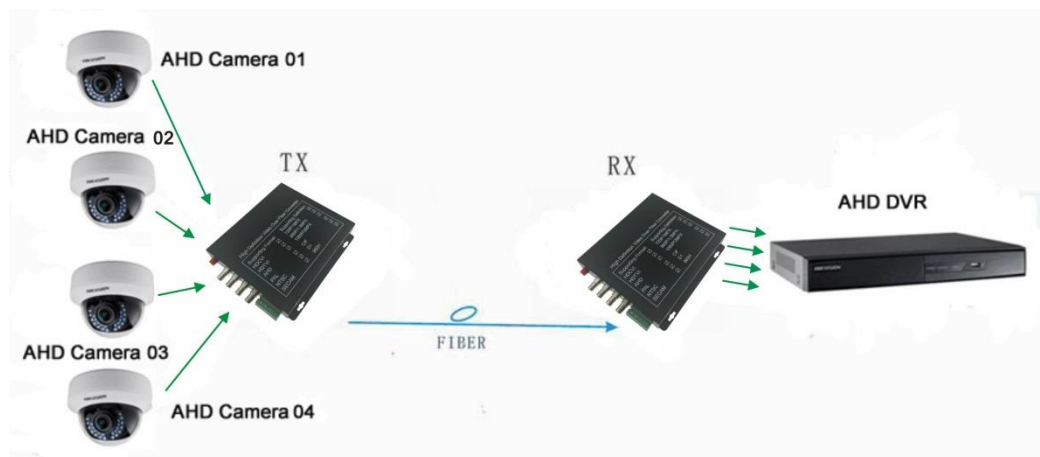
Model Number	Product Configuration	Remark	Fiber Mode	Wavelengths	Transmission Distance
SWV61800	8Ch Forward AHD Video 1080P	FC/SC/ST	Single-mode	CWDM: 1310/1550nm	20Km
SWV61801	8Ch Forward AHD Video 1080P +1Ch Reverse Data	FC/SC/ST	Single-mode	CWDM: 1310/1550/1490 nm	20Km

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)					3
Module name	Configuration	Long (mm)	Wide(mm)	High(mm)	Volume(mm³)
SWV61800	8-Ch video 1080P	174	173	50	1505100
SWV61801	8-Ch video 1080P + 1-Ch RS485 data	174	173	50	1505100
Shipping weight (pair/Tx+Rx & power adaptors & packages)					
Module name	Configuration	weight (kg)		Package type	
SWV61800	8-Ch video 1080P	1.85		Carton box	
SWV61801	8-Ch video 1080P + 1-Ch RS485 data	1.9		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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