

Hi-Definition Analog Video up to 5MPX (2560 x 1920@25fps) TVI/CVI/AHD to Fiber Converter



Introduction

16-Ch TVI/CVI/AHD to Fiber Converters is universal transceivers which supporting High Definition Analog video format **HD-TVI / HD-CVI / AHD up to 5MPX (2560 x 1920@25fps)**, can simultaneously transmit 16 channels video and 1-ch RS485 over one core 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.

Features

- Lossless non-compression real time transmission.
- Automatically identify formats of input video : AHD/TVI/CVI/PAL/NTSC/SECAM
- Support :720P/25/30/50fps@1MPX,
960P/25/30fps@1.3MPX,
1080P/30fps@2MPX,

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2048x1536/25fps@3MPX,

2560x1440/25fps@4MPX

2560x1920/25fps@5MPX

- Advanced lightning protection design, Data interface (terminal blocks) support 4KV lightning protection
- Through LED indicators to inform its functional mode
- Wide range of operating temperature -15 °C to 60 °C
- Stand-alone or Rack-mounted, simple installation.

Technical Specification

Optics :

Wavelength	CWDM:1310nm/1550nm/1470nm/1490nm/1570nm
Output Power	-6~-1dBm
Optic fiber	9/125u single mode
Rx sensitivity	-23dBm
Optical connector	FC、ST、SC (optional)
Distance	0~550M (MM) /0~80KM (SM) (Regular distance is SM 20Km)

Video :

Number of Channels	16
Input/output impedance	75 Ohm (unbalance)
Standard video input/output voltage	1.0Vp-p

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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)@30fps/1MPX 1280(H)x720(V)@50fps/1MPX 1280(H)x960(V)@30fps/1.3MPX 1920(H)x1080(V)@25fps/2MPX 2408(H)x1536(V)@25fps/3MPX 2560(H)x1440(V)@25fps/4MPX 2560(H)x1920(V)@25fps/5MPX

Data:

Protocol	RS485 (RS232/RS422 Optional)
Number of channels	1
Connector	9pins Terminal Blocks

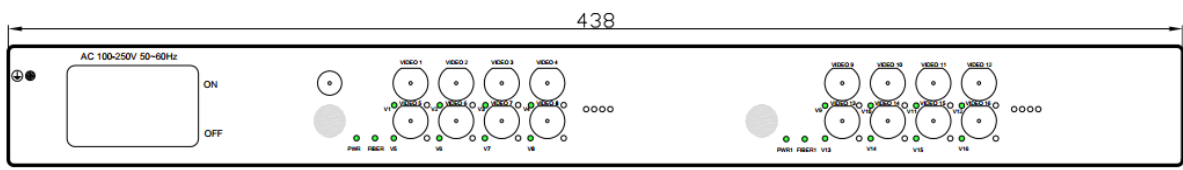
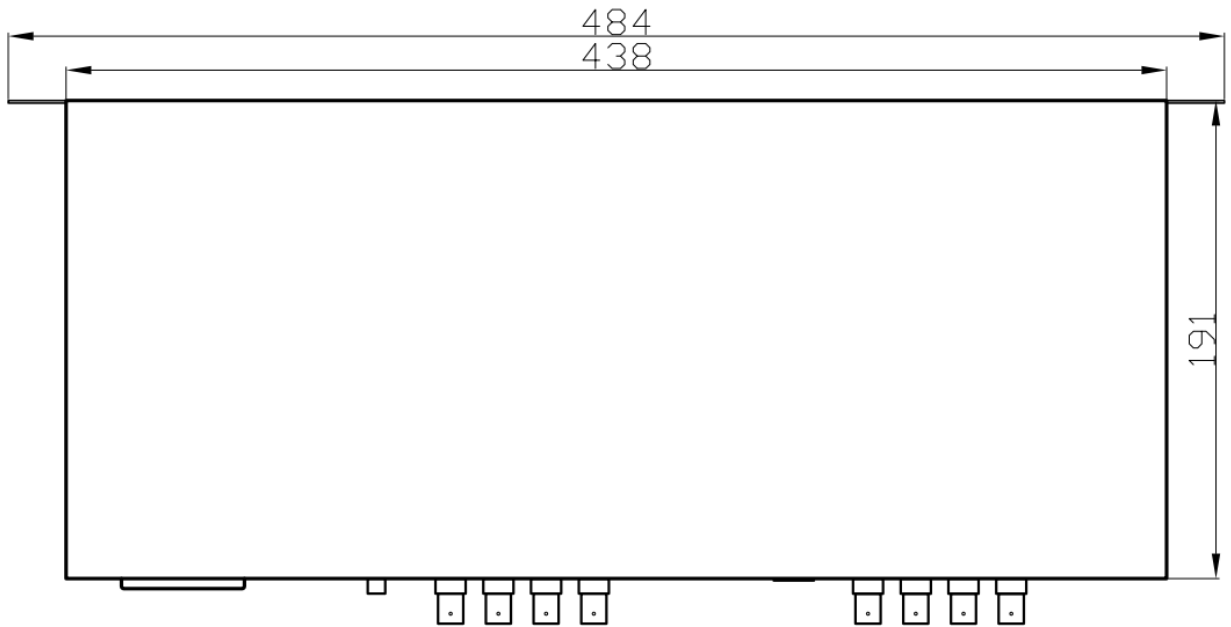
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Data Rate	0-200Kbps
Directions	Default:Simplex from Rx to Tx (BIDI duplex optional)

Mechanical Structure & Environment

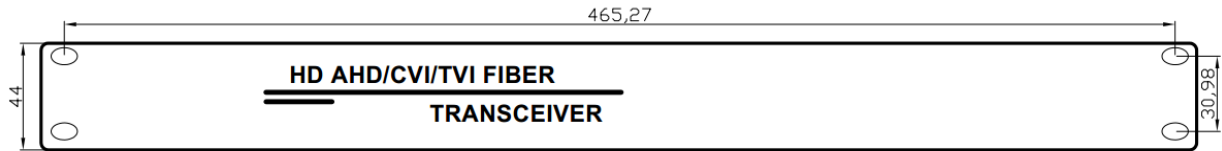
Power	DC5V 6A (Internal)
Power Consumption	≤15W
Working Temperature	-15°C ~60°C
Storage Temperature	-40°C ~85°C
Relative Humidity	5%~95% (no condensation)
MTBF	≥ 100000Hours

Mechanical diagrams



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Front panel of ADV401-16HDTV/CVI/AHD-T/R-5



Back panel of ADV401-16HDTV/CVI/AHD-T/R-5

Ordering information

Model Number	Product Configuration	F/O connector	Fiber Mode	Wavelengths	Transmission Distance
ADV401-16HDTV/CVI/AHD-T/R-5	16-Ch video 5MPX (2560x1920@25fps)	FC simplex	Single-mode	CWDM 1310/1470/1490/1550nm	20Km
ADV401-16HDTV/CVI/AHD1d-T/R-5	16-Ch video 5MPX (2560x1920@25fps) + 1-Ch RS485 data	FC simplex	Single-mode	CWDM 1310/1550/1470/1490/1570nm	20Km

Packing information

Dimensions of products (Pcs per Tx or Rx)					
Module name	Configuration	Long (mm)	Wide(mm)	High(mm)	Volume(mm ³)

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ADV401-16HDTVI/CVI/AHD-T/R-5	16-Ch video 5MPX (2560x1920@25fps)	438	191	44	3680952
ADV401-16HDTVI/CVI/AHD1d-T/R-5	16-Ch video 5MPX (2560x1920@25fps) + 1-Ch RS485 data	438	191	44	3680952

Dimensions of packing box(pair/ Tx + Rx)

Module name	Configuration	Long (mm)	Wide(mm)	High(mm)	Volume(mm ³)
ADV401-16HDTVI/CVI/AHD-T/R-5	16-Ch video 5MPX (2560x1920@25fps)	542	287	185	28777490
ADV401-16HDTVI/CVI/AHD1d-T/R-5	16-Ch video 5MPX (2560x1920@25fps) + 1-Ch RS485 data	542	287	185	28777490

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Shipping weight (pair /Tx+Rx & power adaptors & packages)			
Module name	Configuration	weight (kg)	Package type
ADV401-16HDTV/CVI/AHD-T/R- 5	16-Ch video 5MPX (2560x1920@25fps)	5.5	Carton box
ADV401-16HDTV/CVI/AHD1d-T/ R-5	16-Ch video 5MPX (2560x1920@25fps) + 1-Ch RS485 data	6.0	Carton box

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.

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