AHD-801HP Series

8 CH Video AHD/HD-TVI/HDCVI/960H/D1 with RS485 Return Data to Fiber Converters

Introduction

Industrial AHD-801HP series fiber converters adopt the advanced uncompressed HD composite video and high velocity digital optical transmission technologies which convert the hybrid video includes AHD, HDTVI, or HDCVI composite signals to optical signals to achieve long distance (can up to 20Km) transmission through fibers. This series can support the latest 2MP, and 4MP, 5MP resolution cameras, and can be used compatible with previous camera signals, i.e. 960H and D1. This model also supports RS-485 data transmission on high speed dome application.

Features

- Plug and play, easy to install, compatible with 4U 19-inch OVC series chassis.
- Support transmission of 8 channel AHD, HD-TVI, CVI, 960H or D1 signal and 1channel of RS-485 data though optical fiber.
- Each set of AHD-801HP contains RX (receiving side) and TX (transmitting side).
- Support 2MP, 4MP, 5MP analog HD camera signal transmission.
- Support for 9/125um single mode fiber type
- Support optical fiber transmission video signal distance up to 20KM.
- Supports fiber transmission rates of 3G.
- Supports both card and box types.
    For Card/Module type, user can use with Hoatech OVC series 4U19'' chassis (426x178x172mm) for future expansion.
- It has a single dual power input DC 12V 1A, including DC power input and Phoenix terminal for power backup.
- With power polarity reverse protection.
- Lightning protection level boost with 4KV surge protection.
- Support industrial wide temperature operating temperature -40 ° C to 75 ° C.
- MTBF (mean time between failures) > 50,000 hours.
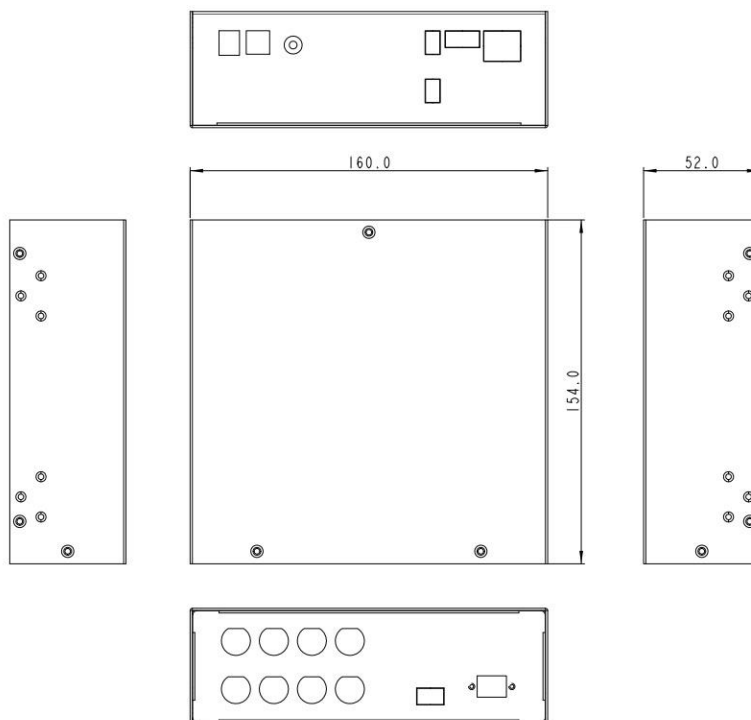- Have a safety certification CE & FCC certification.

Specifications

Feature		Description	
Optical Interface	Fiber Type (Diameter)	Single mode fiber(9/125μm)	
	Fiber Connector	SC/ST/FC	
	Distance	0km~20km	
	Fiber Speed	3Gbps	
	Wavelength	Transmitter	Receiver
		Tx:1310nm, Rx:1550nm	Tx:1550nm, Rx:1310nm
	Launch Power (dBm)	Max.: 0, Min: -9	
	Receive Sensitivity (dBm)	-21	
	Max. Input Power (dBm)	-3	

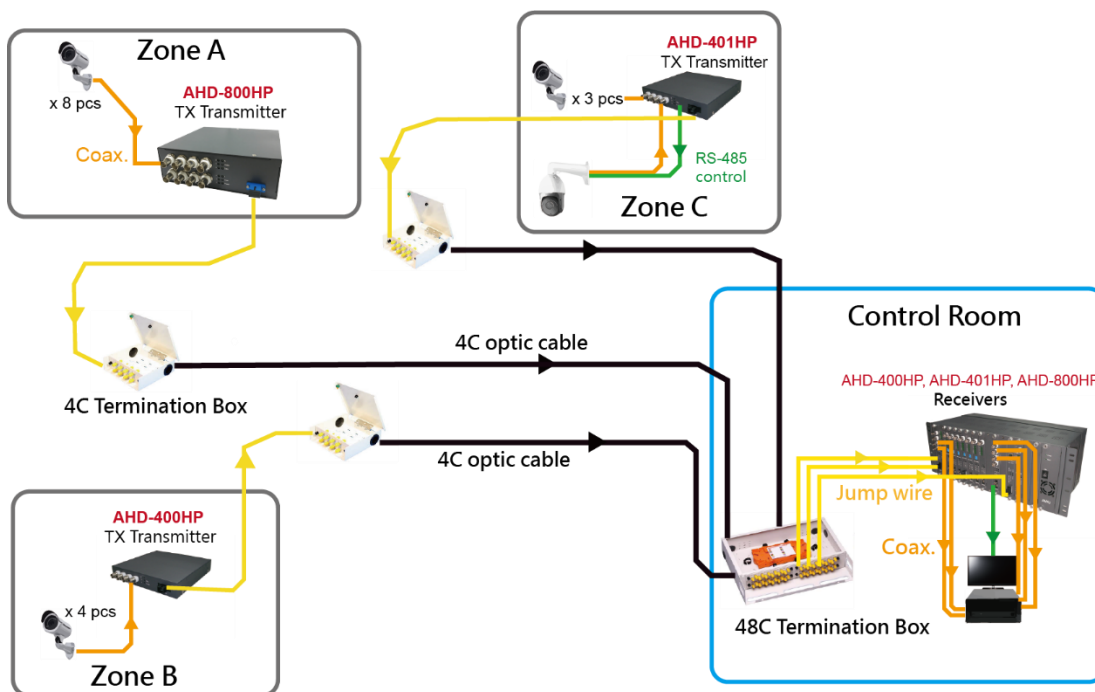|		
Video Characteristics	Video Channel	8 channels
	Signal Mode	NTSC/PAL/SECAM
	Supported Video Type	AHD, HD-TVI, HDCVI,960H, D1, CVBS
	Supported Resolution	2.0MP, 4.0MP, 5.0MP
	Input /Output Impedance	75 Ω unbalanced
	Input /Output level (Voltage)	1Vp-p (Typical)/500mVp-p
	Video Bandwidth	60MHz
	Video Digital Bit Width	8bit
	Video Connector	BNC
Serial Data Interface	Data Channel	1 channel
	Signal	RS485 (reversed async data)
	Protocol	Unidirectional
	Data rate	>128Kbps
	Transmission distance	0 ~ 1200m
	Connector Type	3-pin terminal block with screw clamps
	Bit Error Rate (BER)	$<10^{-9}s$
General	LED Indicators	Power/Video/Fiber (Fiber transmission status)
	Power Requirement	12VDC, 1A
	Power Consumption	≤ 5W
	Unit Weight	Box: 960g ; Module: 440g
	Dimension	Box: 160x52x155mm; Module: 177x52x152mm
	Mechanical	Metal
	Installation	Desktop, Wall mount, Chassis with optional chassis installation
	Compatible Chassis	OVC-4U18
Conformance	Operating Temperature	-40 ° C ~75 ° C
	Storage Temperature	-40 ° C ~ 85 ° C
	Humidty	0~95% (Non-condensing)
	MTBF	> 50,000 hours
	Compliance	FCC, CE
Accessories	Pakage Contants	AHD-801HP TX x1 AHD-801HP RX x1 12V, 1A power adapter x2 Quick Installation Guide x1

Dimensions

Unit: mm

160.0

52.0

154.0

Application

Outdoor Surveillance

Zone A

AHD-800HP
TX Transmitter

x 8 pcs

Coax.

AHD-401HP
TX Transmitter

x 3 pcs

RS-485
control

Zone C

4C Termination Box

4C optic cable

4C optic cable

AHD-400HP
TX Transmitter

x 4 pcs

Zone B

Control Room

AHD-400HP, AHD-401HP, AHD-800HP
Receivers

Jump wire

Coax.

48C Termination Box

Ordering Information

Model	Diameter	Connector	Operation Mode	Wavelength	Distance	Box	Card
AHD-801HP-SM-SC-BI-20	SM (9/125μm)	SC	Simplex	1310/1550 nm	20KM	●	●
AHD-801HP-SM-ST-BI-20	SM (9/125μm)	ST	Simplex	1310/1550 nm	20KM	●	●
AHD-801HP-SM-FC-BI-20	SM (9/125μm)	FC	Simplex	1310/1550 nm	20KM	●	●

Accessories (sold separately)

Model Name	Description
SC-SC-S-3M	3M SC to SC Fiber Patch Cord, 9/125 μm, Single Mode
SC-ST-S-3M	3M SC to ST Fiber Patch Cord, 9/125 μm, Single Mode
SC-LC-S-3M	3M SC to LC Fiber Patch Cord, 9/125 μm, Single Mode
SC-FC-S-3M	3M SC to FC Fiber Patch Cord, 9/125 μm, Single Mode
ST-ST-S-3M	3M ST to ST Fiber Patch Cord, 9/125 μm, Single Mode
ST-FC-S-3M	3M ST to FC Fiber Patch Cord, 9/125 μm, Single Mode
ST-LC-S-3M	3M ST to LC Fiber Patch Cord, 9/125 μm, Single Mode
FC-FC-S-3M	3M FC to FC Fiber Patch Cord, 9/125 μm, Single Mode
FC-LC-S-3M	3M FC to LC Fiber Patch Cord, 9/125 μm, Single Mode

More information please check on our website at www.hoatech.com.tw