



### ◆ 16 channels AHD/CVI/TVI to fiber converter (1080P) with 1ch RS485 data

#### ➤ Features

- 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;
- Plug and Play, hot plugged;
- Support user customization and OEM;
- Compatible with AHD/CVI/TVI Cameras.



#### ➤ Introduction

CHD1601-1080 is universal type supporting High Definition Analog video format HD-TVI / HD-CVI / AHD , can simultaneously transmit 16 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.

#### ➤ Application Industries

- HD monitor transmission and power supply
- Wireless AP layout transmission and power supply
- Network telephone transmission , intelligent house and home system
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com project

## ➤ Specification

### Video

Number of Channels	16
Input/output impedance	75 Ohm (unbalance)
Standard video input/output voltage	1.0Vp-p
Video Bandwidth	50MHz
Sampling Bandwidth	8bit
Sampling Frequency	108MHz
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

### Optics

Wavelength	CWDM:1310nm/1550nm/1470nm/1490nm/1570nm
Output Power	-8~3dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-26dBm
Optical connector	FC/ST/SC (optional)
Distance	0~550M (MM) / 0~80KM (SM) (Default distance is 20Km)

### Data

Protocol	Default :RS485 (RS232/RS422 Optional)
Number of channels	1
Connector	9 pins Terminal Blocks
Data Rate	0-200Kbps
Directions	Default :Simplex from Rx to Tx (BIDI duplex optional)

### Others

Power	AC100-250V
Power Consumption	≤10W
Working Temperature	-15°C ~65°C
Storage Temperature	-40°C ~85°C
Size (W×H×D)	438mm*173mm*44mm
Packing Size	542mm*285mm*185mm
Weight	5.3kg
MTBF	≥ 100000Hours
Warranty	3 years

## ➤ Application



## ➤ Ordering Information

**Model NO.**                      **Description**

CHD1600-1080                  16 channels AHD/CVI/TVI to fiber converter,1080P

CHD1601-1080                  16 channels AHD/CVI/TVI with 1-ch RS485 Data to fiber converter,1080P

## ➤ Packing List

- AHD/CVI/TVI to fiber converter (transmitter+receiver)
- Power adaptor Cable x 2
- User manual x 1
- Certificate of quality x 1
- Warranty card x 1