

Video Digital Optical Converter

WVC-101HD/401HD/801HD/1601HD



HD-AHD/CVI/TVI Video Digital Optical Converter

Technical Specification



Key Features

- ▶ Aluminum alloy enclosure wall-mounted or installed 19-inch 1U chassis.
- ▶ Support two HD video formats of 1280H and 1920H.
- ▶ All interface users level three ESD, lightning protection.
- ▶ Super wide dynamic range optical and advanced adaptive technology, long distance up to 40 Km.
- ▶ Surface mount devices, ensure that product is small, high stability, high reliability.
- ▶ Very low electromagnetic interference (EMI) and radio frequency interference (RFI) as well as common ground loop interference.
- ▶ With large quantity of LED indicator lights, diagnostic indication.
- ▶ Plug and play, support hot-plug.
- ▶ With advantages of small dimension, low power consumption, strong anti-interference ability, high fidelity.
- ▶ Industrial ultra-wide temperature range (-40°C ~ 85°C), adapting to more environment.

Introduction

AHD video optical converter is specially designed for long range transmission of HD-CVI, HD-AHD, HD-TVI and other high definition composite video, the use of independent research and development of non-compressed digital photo-electric conversion technique can realize the point-to-point video transmission of million-pixel HD video with high reliability and without delay over optical fiber. Single fiber can simultaneously transmit 1~16 channels of HD coaxial composite video.

AHD video optical converter supports 1280H and 1920H video formats, it supports both 1280 x 720 and 1920 x 1080 resolution, four frame rates of 25fps, 30fps, 50fps, 60fps, six high-definition formats of 1280H/25f, 1280H/30f, 1280H/50f, 1280H/60f, 1920H/25f, 1920H/30f.

Model	WVC-101HD	WVC-401HD	WVC-801HD	WVC-1601HD
Optical Interface				
Physical Fiber Interface	FC/PC			
Optical Wave Length	Single mode 1310, 1550nm			
TX. Power	≥ -8dBm			
Receiving Sensitive	≤ -30dBm			
Transmitting Distance	Single mode 20Km/ 40Km/ 60Km/ 80Km for option			
Video Interface				
Video	1CH	4CH	8CH	16CH
Signal Format	HD-CVI, AHD or HD-TVI			
Input/ Output Impedance	Standard 1Vpp, Max 1.5Vpp			
Input/ Output Voltage	1Vp-p			
Receiving Rise and Fall Time	< 0.8ns			
Receiving Maximum Fiber	< 0.2UI			
Data				
Physical Interface	Industry standard terminals			
Working Mode	Positive direction, Reverse direction, bi-directional data			
Interface Type	RS-232, RS-485/422, Manchester, Biphase			
Communication Speed	0 ~ 300Kbps			
BER	< 10-12			
General Characteristics				
Power	DC 5V	DC 5V	DC 5V	AC100-250V
MAX. Power Consumption	< 3W	< 4W	< 6W	< 10W
Mean-Time to failure (MTBF)	> 100,000 Hours			
Operating Temperature	-20°C ~ 60°C			
Storage Temperature	-40°C ~ 85°C			
Operating Humidity	0 ~ 95% (non-condensing)			
Dimension (mm)	110x120x40	160x140x40	170x140x60	478x170x45

Connection Diagram

