

CLR-AHD-1CH

1 Channel AHD Video + Data 1080P F/O Converter FC SX 20Km Single-fiber



Overview

AHD TO Fiber Converter can transmit 1 AHD channel over one multimode or single-mode optical fiber. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment. Compatible with AHD-H, AHD-M, AHD-L. Lossless non-compression real time transmission.

It can transmit 720P/960P/1080P high quality 1 way (8Bit or 10Bit) HD video signals and reverse 485 data signals over a single optical fiber cable.

Area of usage;

- 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, CCTV camera systems
- Long-distance broadcast television transmission system
- City traffic monitoring system
- Public security, safe city monitoring system
- Highway security protection, charging system
- Building, campus monitoring net
- Industrial monitoring (airport, chemical industrial, steel, oil, railway, water conservancy, mine, etc)
- Military monitoring (storehouse, frontier defense, guard, nation defense, etc)
- electric power, oilfield, television program transmission system

Features

- 8/10-digit coding and non-compression video transmission
- Supports AHD or CVI megapixels resolution 960P and 1080P video signal
- Video Bandwidth: 60MHz
- Input automatic cable equalization 960p / 1080P: 75-5 coaxial cable support 500m
- With APC circuit, constant output optical power, large dynamic range
- Gigabit optical fiber transmission, large capacity, easy to upgrade and expansion
- LED indication of Power, fiber optic link and data status, can monitor system running status.
- Advanced adaptive technology, without the need for on-site electrical or optical adjustments when using
- Installation: Wall-mounted or stand-alone

Specifications

Fiber Features

Interface	FC
Transmit wavelength	1310 nm
Transmit power	-15 ~ -10 dBm
Receive sensitivity	-34 dBm
Optical saturation	-8 dB
Loss	0.5 dBm/Km
Transmission Distance	0 ~ 20 Km

Video Features

Interface	BNC
Input/output impedance	75Ω (unbalanced)
Input/output voltage	1VP-P (peak value), Max 1.2Vpp
Bandwidth	60MHz
Sampling	15MHz high speed sampling
Digit bit width	8/10/12 bit
Differential gain	(10% - 90% APL) DG < 1% (Typical value)
Differential phase	(10% - 90% APL) DP < 0.8° (Typical value)
Video SNR	S/N ≥ 70dB (Maximum optical link path loss)

Data Features

Interface Physical	Standard industrial connecting terminals
Controlled Equipments	PTZ decoder, Keyboard, Matrix, High speed dome camera
Interface Signals	RS485
RS-485 data rate	DC-250Kbps
RS-485 bit error rate	≤10E-12
RS-485 Max node number	128
RS-485 Transmission distance	1200m
RS-485 Network Connection	Forward, reverse and bi-directional RS-485, supports point to point and point to multipoint connections

General Parameters

Operating Temperature	-40 °C ~ +85 °C
Storage Temperature	-45 °C ~ +95 °C
Relative humidity	0 ~ 95% (Non-condensing)
Power Voltage	AC85-260v/50Hz
MTBF	≥1000000 hours
Power consumption	4.0w (Input: DC5V 2000mA)

Application Diagram

