

# Technical Datasheet

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## AHD to Fiber Converter

### Introduction

**AHD TO Fiber Converter** can simultaneously transmit 1-16 channels AHD 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.

### Feature

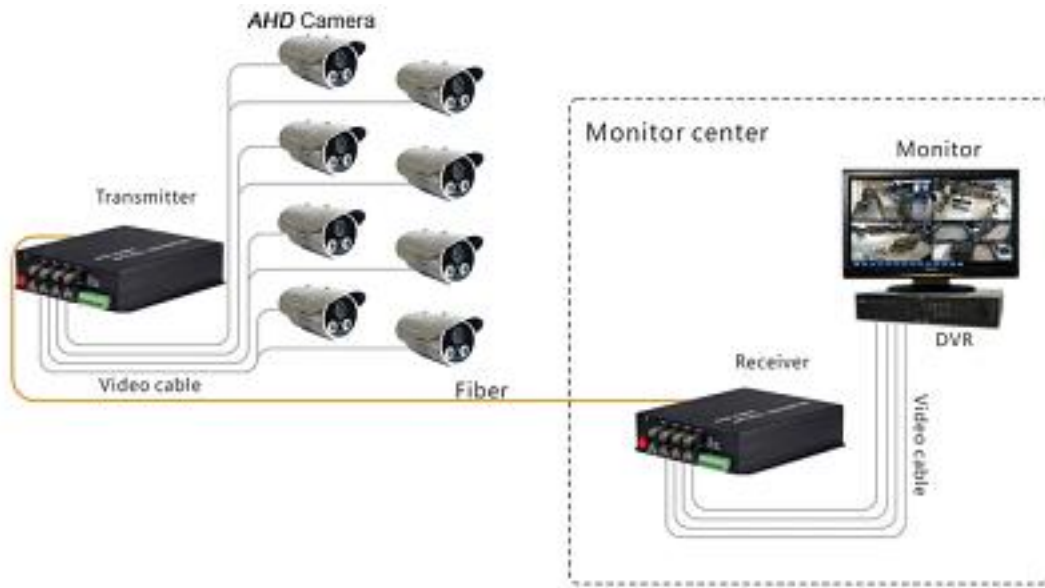
- Non-compression coding technology
- Automatically identify formats of input videos
- Support transmission of 1~16 channel AHD signal and controlling data simultaneously through coaxial cable
- DC 5V power supply
- Support 720p/25, 720p/30, 720p/50, 720p/60, 1080p/25, 1080p/30 videos etc
- Through LED indicators to inform its functional mode
- Industrial wide range of operational temperature
- Plug and play, simple installation

### Application

- 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
- Gymnasium (live video, audio transmission)

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## AHD TO Fiber Converter System connection diagram



### Technical Specification

Optical:

Wavelength	1310nm&1550nm
Output Power	-8~3dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-25dBm
Optical connector	FC、ST、SC (optional)
Distance	0~550M (MM) / 0~80KM (SM)

Video:

Number of Channels	1~16
Input/output impedance	BNC 75Ω (unbalance)
Standard video input/output voltage	1.0Vp-p
Video Bandwidth	45MHz
Sampling Bandwidth	10bit
Sampling Frequency	108MHz
Rise and Fall time	<0.8ns
Optical Signal Intrinsic Jitter	<0.2 UI
Differential Gain	< ±1.5%
Differential Phase	< ±1°
Connector	BNC

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Other

Power	DC5V 2A
Power Consumption	≤6W
Temperature	-40°C ~75°C
Humidity	10%~90% RH
Installation	Wall mount
MTBF	≥ 100000Hours