

8CH 4-in-1 HD Video Fiber Converter (AHD/CVI/TVI/CVBS)



Features

- ▶ Adopts uncompressed coding technology for lossless image quality and real-time transmission
- ▶ Automatically identifies AHD/TVI/CVI/CVBS video formats, plug-and-play
- ▶ Simultaneously transmits 8 channels of HD video + 1 channel of RS485 PTZ data over a single optical fiber
- ▶ Supports multiple resolutions (1080P/720P) and is compatible with mainstream coaxial cameras
- ▶ Maximum transmission distance: 80km for single-mode fiber and 550m for multi-mode fiber, optional optical fiber connectors (FC/SC/ST)
- ▶ Industrial-grade wide temperature design: -15°C ~ 60°C, stable and reliable
- ▶ Equipped with LED status indicators for clear real-time monitoring of device operation
- ▶ Metal case, supports wall-mount/rack-mount installation, suitable for various scenarios

Product Description

This 4-in-1 video fiber converter adopts advanced uncompressed HD video and high-speed digital optical transmission technology. It converts AHD/HD-CVI/HD-TVI/CVBS signals into optical signals for long-distance transmission up to 120km via optical fiber. It supports 8-channel video transmission simultaneously over single-mode or multimode fiber. No electronic or optical adjustment is needed. LED indicators allow real-time system status monitoring. The unit supports desktop or rack-mount installation for various working environments, and supports video formats including 720P 25/30/50/60fps and 1080P 25/30fps.

Product Specification

| | | |
|------------------------------------|--------------------------|---------------------------------------------------------------------------------|
| Optical Fiber | Wavelength | WDM: 1310nm / 1550nm |
| | Output Power | -8 ~ 3dBm |
| | Fiber Type | 50/125μm multimode, 62.5/125μm multimode, 9/125μm single mode |
| | Rx Sensitivity | -26dBm |
| | Optical Connector | FC (default), ST / SC (optional) |
| | Transmission Distance | 0~550m (multimode)0~80km (single mode), default 20km |
| Video | Channels | 8 |
| | Input/Output Impedance | 75Ω (unbalanced) |
| | Video Voltage | 1.0Vp-p |
| | Video Bandwidth | 50MHz |
| | Sampling Bandwidth | 8-bit |
| | Sampling Frequency | 108MHz |
| | Signal-to-Noise Ratio | >67dB |
| | Rise & Fall Time | <0.8ns |
| | Optical Intrinsic Jitter | <0.2 UI |
| | Differential Gain | <±1.5% |
| | Differential Phase | <±1° |
| | Connector | BNC |
| | Supported Resolution | 1280×720@30Hz (1MP)1280×720@50Hz (1MP)1280×960@30Hz (1.3MP)1920×1080@30Hz (2MP) |
| PTZ Data | Protocol | RS485 (default), RS232 / RS422 (optional) |
| | Data Channels | 1 |
| | Connector | 3-pin terminal block |
| | Data Rate | 0~200Kbps |
| | Transmission Direction | Simplex (Rx→Tx, default), BIDI duplex (optional) |
| Environmental | Operating Temperature | -15°C ~ +65°C (5°F ~ 149°F) |
| | Storage Temperature | -40°C ~ +85°C (-40°F ~ 185°F) |
| | Humidity | 5% ~ 95% (non-condensing) |
| | MTBF | >100,000 hours |
| Electrical & Mechanical | Power Input | DC 5V 2A |

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|--------------------|-----------------------------------------------------------------|
| Power Consumption | ≤6W |
| LED Indicators | PWR (power), Fiber (link status), Data (data status), Video 1–4 |
| Dimensions (W×D×H) | 167 × 172 × 45 mm (720P / 1080P) |
| Weight | 2.5kg (720P / 1080P) |
| Housing | Metal case |
| Mounting | Wall-mount / Rack-mount |