

## LBHDV series Single-Core-Fiber Multimeter (Video/Audio/Data) 16Ch HD TVI/CVI/AHD VideoAudioData fiber converter system

Lightem LBHDV series 16-Ch TVI/CVI/AHD to Fiber Converters 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.



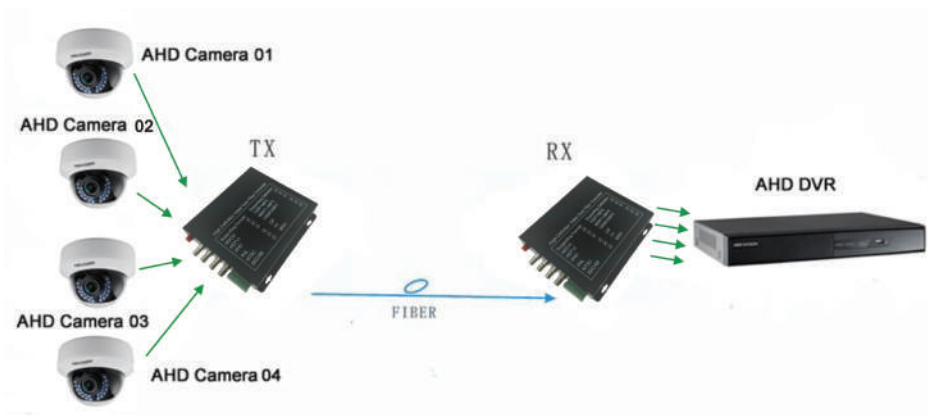
### FEATURES

- 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.

### APPLICATIONS

- CCTV / Security system
- Traffic Control
- TV Broadcast System

### LOGICAL DIAGRAM



## SPECIFICATIONS

Optical	
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)
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
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)
Mechanical Structure & Environment	
Power	DC5V 3A
Power Consumption	≤10W
Working Temperature	-15°C ~65°C
Storage Temperature	-40°C ~85°C
Relative Humidity	5%~95% ( no condensation)
MTBF	≥ 100000Hours
Dimensions (L x W x H)	438 x 173 x 44mm
Weight	5.3Kg

## ORDERING INFORMATION

16 Channels TVI/CVI/AHD Video	
LBHD16V-p	16 TVI/CVI/AHD Video (Down)
LBHD16Vzzz-1DU-p	16 TVI/CVI/AHD Video (Down) + 1 Data (Up)
M01, S20	Multimode-1km, Singlemode 1310-20km
P	
R-T, -R-R	R-Rackmount, T-Transmitter, R-Receiver