

## LBHDV series Single-Core-Fiber Multimeter (Video/Audio/Data) 1-2Ch HD TVI/CVI/AHD VideoAudioData fiber converter system

Lightem LBHDV series 8-Ch TVI/CVI/AHD to Fiber Converters is universal type supporting High Definition Analog video format HD-TVI / HD-CVI / AHD , can simultaneously transmit 8 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.



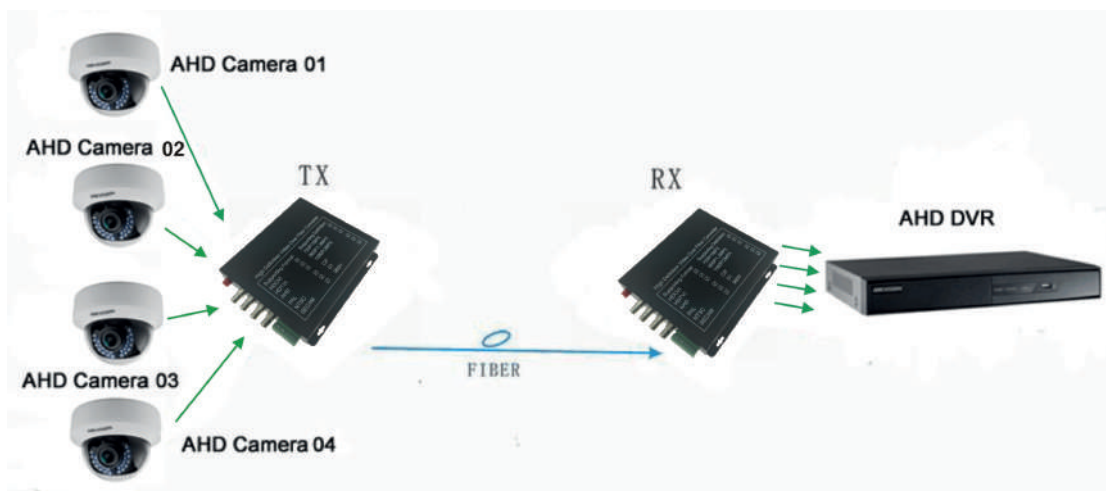
### FEATURES

- 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 operating temperature
- Stand-alone or Rack-mounted, simple installation.

### APPLICATIONS

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

### LOGICAL DIAGRAM



## SPECIFICATIONS

Optical	
Wavelength	WDM:1310nm/1550nm
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	1
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	5pins Terminal Blocks
Data Rate	0-200Kbps
Directions	Default :Simplex from Rx to Tx (BIDI duplex optional)
Mechanical Structure & Environment	
Power	DC5V 2A
Power Consumption	≤6W
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)	301 x 247 x 61mm
Weight	1 Kg

## ORDERING INFORMATION

0 Channel TVI/CVI/AHD Video	
LBHD0Vwww-p	0 TVI/CVI/AHD Video (Down)
LBHD0Vwww-1DU-p	0 TVI/CVI/AHD Video (Down) + 1 Data (Up)
LBHD0Vwww-2DU-p	0 TVI/CVI/AHD Video (Down) + 2 Data (Up)
LBHD0Vwww-2AUD-p	0 TVI/CVI/AHD Video (Down) + 2 Audio (Up/Down)
LBHD0Vwww-2DUD-p	0 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down)
LBHD0Vwww-2DUD-1AUD-p	0 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 1 Audio (Up/Down)
LBHD0Vwww-2DUD-1AUD-1T-p	0 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 1 Audio (Up/Down) + 1 10Base T
www	
M02, S20,	Multimode-2km, Singlemode 1310-20km,
S40, SD4	Singlemode 1550nm-40km, Singlemode 1310/1550nm-40km
P	
-S-T, -S-R, -R-T, -R-R	S-Standalone, R-Rackmount, T-Transmitter, R-Receiver
1 Channels TVI/CVI/AHD Video	
LBHD1Vxxx-p	1 TVI/CVI/AHD Video (Down)
LBHD1Vxxx-1DU-p	1 TVI/CVI/AHD Video (Down) + 1 Data (Up)
LBHD1Vxxx-2AD-p	1 TVI/CVI/AHD Video (Down) + 2 Audio (Down)
LBHD1Vxxx-2AUD-p	1 TVI/CVI/AHD Video (Down) + 2 Audio (Up/Down)
LBHD1Vxxx-2DU-2AD-p	1 TVI/CVI/AHD Video (Down) + 2 Data (Up) + 2 Audio (Down)
LBHD1Vxxx-2DUD-1AUD-p	1 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 1 Audio (Up/Down)
LBHD1Vxxx-2DUD-1AUD-1T-p	1 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 1 Audio (Up/Down) + 1 10Base T
xxx	
M02, S20	Multimode-2km, Singlemode 1310-20km
P	
-S-T, -S-R, -R-T, -R-R	S-Standalone, R-Rackmount, T-Transmitter, R-Receiver
2 Channels TVI/CVI/AHD Video	
LBHD2Vyyy-p	2 TVI/CVI/AHD Video (Down)
LBHD2Vyyy-1DU-p	2 TVI/CVI/AHD Video (Down) + 1 Data (Up)
LBHD2Vyyy-2AD-p	2 TVI/CVI/AHD Video (Down) + 2 Audio (Down)
LBHD2Vyyy-2AUD-p	2 TVI/CVI/AHD Video (Down) + 2 Audio (Up/Down)
LBHD2Vyyy-1DU-2AD-p	2 TVI/CVI/AHD Video (Down) + 1 Data (Up) + 2 Audio (Down)
LBHD2Vyyy-1DUD-2AUD-p	2 TVI/CVI/AHD Video (Down) + 1 Data (Up/Down) + 2 Audio (Up/Down)
LBHD2Vyyy-2DUD-2AUD-p	2 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 2 Audio (Up/Down)
LBHD2Vyyy-2DUD-2AUD-1T-p	2 TVI/CVI/AHD Video (Down) + 2 Data (Up/Down) + 2 Audio (Up/Down) + 1 10Base T
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M01, S20	Multimode-1km, Singlemode 1310-20km
P	
-S-T, -S-R, -R-T, -R-R	S-Standalone, R-Rackmount, T-Transmitter, R-Receiver

### 19" Rackmount chassis

LR2U-V 19" 2U Rackmount chassis system for maximum 16x 1-2 Ch Video Cards, with redundant channel card