

# Mini Professional 3G HDSDI to fiber converter



## Description:

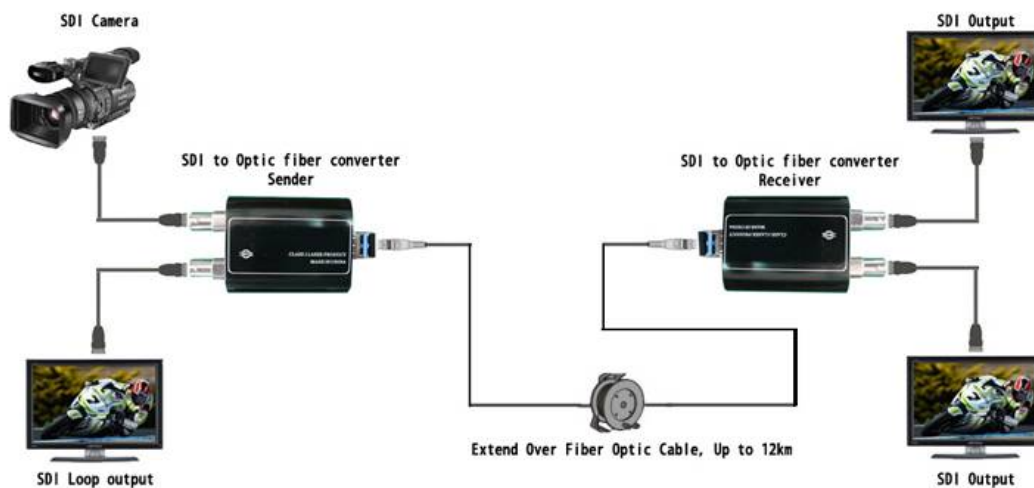
The 3G-SDI Fiber Optic Extender ( Optical Fiber to SDI mini converter ) transfers multi-rate HD-SDI digital video signals such as SMPTE-424M / 292M / 259M SDI between two 3G-SDI devices via an LC-terminated fiber cable. Single or multi-mode cable can be used to extend the signal over a distance of 10 km at a data rate of up to 3 GBps.

HD-SDI to Fiber Converter, mini size, put it inside the speed dome camera, made the camera became a fiber sender unit.

## Features:

- 1) Transmit 1-ch 3G HD-SDI video and embedded audio over one fiber.
- 2) Support 270Mb/s to 2.97Gbit/s.
- 3) Broadcast Signal Quality, Compliance with SMPTE 424M, SMPTE 292M and SMPTE 259M.
- 4) Immune to pathological patterns over the entire link budget and operating temperature range.
- 5) Automatic cable EQ (Belden 1694A cable) to 100 meters at 3G HD-SDI transmission.
- 6) LED indicators.
- 7) Supports hot swapping and hot plugging.

## Diagram:



Technical Performance list:				
Product Name	Mini Professional 3G HDSDI to fiber Converter			
Product Model	Transmitter: HK-3G-SDI-X1-T, Receiver: HK-3G-SDI-X1-R			
Optical Fiber	Single fibers, LC connector, Compatible with multimode or single mode fiber			
Working Environment	Working Temperature: 0°C ~ +75°C; Relative Humidity: 0 ~ 95% (no cold condensation)			
Warranty	2 Years warranty			
Product:	Item No.	Dimension(mm)	NW(kg)	GW(kg)
HDSDI to fiber Converter	HK-HD-SDI-X1-T/R	63 x 52 x 22 mm ( L x W x H )	030. kg/pcs	0.90 kg/pair
3GSDI to fiber Converter	HK-3G-SDI-X1-T/R	63 x 52 x 22 mm ( L x W x H )	030. kg/pcs	0.90 kg/pair
Packing in the box	1x Transmitter, 1x Receiver, 2x Power adapter, 2x SFP Optical Transceiver			
Video Performance:				
Video Connector:	Transmitter: 1x SDI input, 1x SDI Loop out	Receiver: 2x SDI output		
Video Format:	1) All inputs and outputs are equalized and re-clocked 2) Immune to pathological patterns over the entire link budget and operating temperature range 3) Broadcast Signal Quality, SMPTE 424M-2006, 292, 259 and DVB-ASI compliant 4) Support SDSDI & HDSDI & 3GSDI, Support 270M & 1.485G & 2.97G SDI Video			
Automatic cable:	150m@1485Mbps, 100m@2970Mbps,			
Optical Performance:				
Fiber Connector:	Transmitter: 1x LC	Receiver: 1x LC		
Fiber Format:	Single Mode			
Working Wavelength:	1310nm			
Return Loss:	> 15dB			
Shake:	< 0.2UI			
Electric Performance:				
Power adaptor:	AC 90-260V input, DC 12V1A output			
Rated Power:	3W			
EMI/RFI:	Compliance with FCC Part 15 Class A, EU EMC			
MTBF:	> 100000 Hours			
Dimension:				
<p>The drawing shows the physical dimensions and features of the converter. The front view is 63 mm wide and features a laser safety warning label with the text: 'INVISIBLE LASER RADIATION', 'AVOID DIRECT EXPOSURE TO BEAM', and 'MEETS CLASS 1 LASER SAFETY REQUIREMENTS'. Below the warning are several certification logos including FCC, CE, UL, ISO 9001, and others. The top view shows two SDI output ports labeled 'SDI OUT2' and 'SDI OUT1' with a height of 22 mm. The bottom view shows a DC 5V power input port and two status LEDs labeled 'STATUS' and 'PWR'. The width of the bottom section is 52 mm.</p>				