

FEATURES

- 1 channel video and audio transmission of digital video signal over optic fiber



- Handles pathological pattern
- Automatic cable equalization to ensure signal integrity
- Automatic reclocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
- Support signal type: 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, DVB-ASI
- Directly compatible with HD-SDI camera systems and support RS-232, RS-422, and RS-485 data protocols
- Long transmission capability at least 10 km(6.2 miles) , up to 80 km
- Terminal block power input for industrial application
- Supports hot swapping and hot plugging
- Simplex LC/PC single mode optical connection
- Industry-grade of operating temperature from -10°C to 75°C , which is applied to the different working environment
- Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

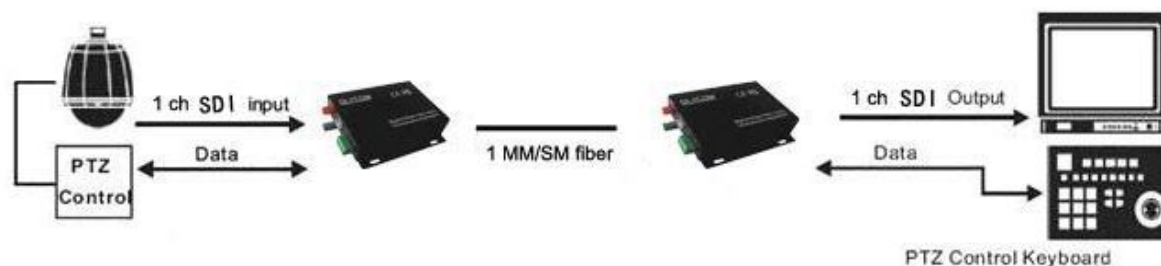
DESCRIPTION

The VSDI series fiber video converter is an ideal and economic solution for broadcasting or surveillance applications. It receives one HD-SDI electrical input, perfectly converts electrical SDI signal to single mode optic SDI signal. It supports transmission image of SDTV (143-540Mbps), HDTV (1.485Gbps) and HDTV (3Gbps, 1080p60).

Both transmitter and receiver provide equalizing and reclocking at input unit in order to re-construct the signal for consistent quality. Besides, with advanced fiber technology, VSDI can easily pass pathological pattern to prove its complete transmission.

The VSDI series fiber video converter are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. 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 .

APPLICATION



SPECIFICATION

Optical:

Wavelength	1310nm&1470nm~1610nm
Output Power	-10~-3dBm / -3~+2dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-18dBm
Optical connector	LC、FC、ST (optional)
Distance	0~500M (MM) / 0~80KM (SM)

Data:

Data protocol	RS232、RS422、RS485、Manchester, BIPHASE data
Data rate	0~200 Kbps
Error rate	$< 10^{-9}$
Connector	Standard terminal lead

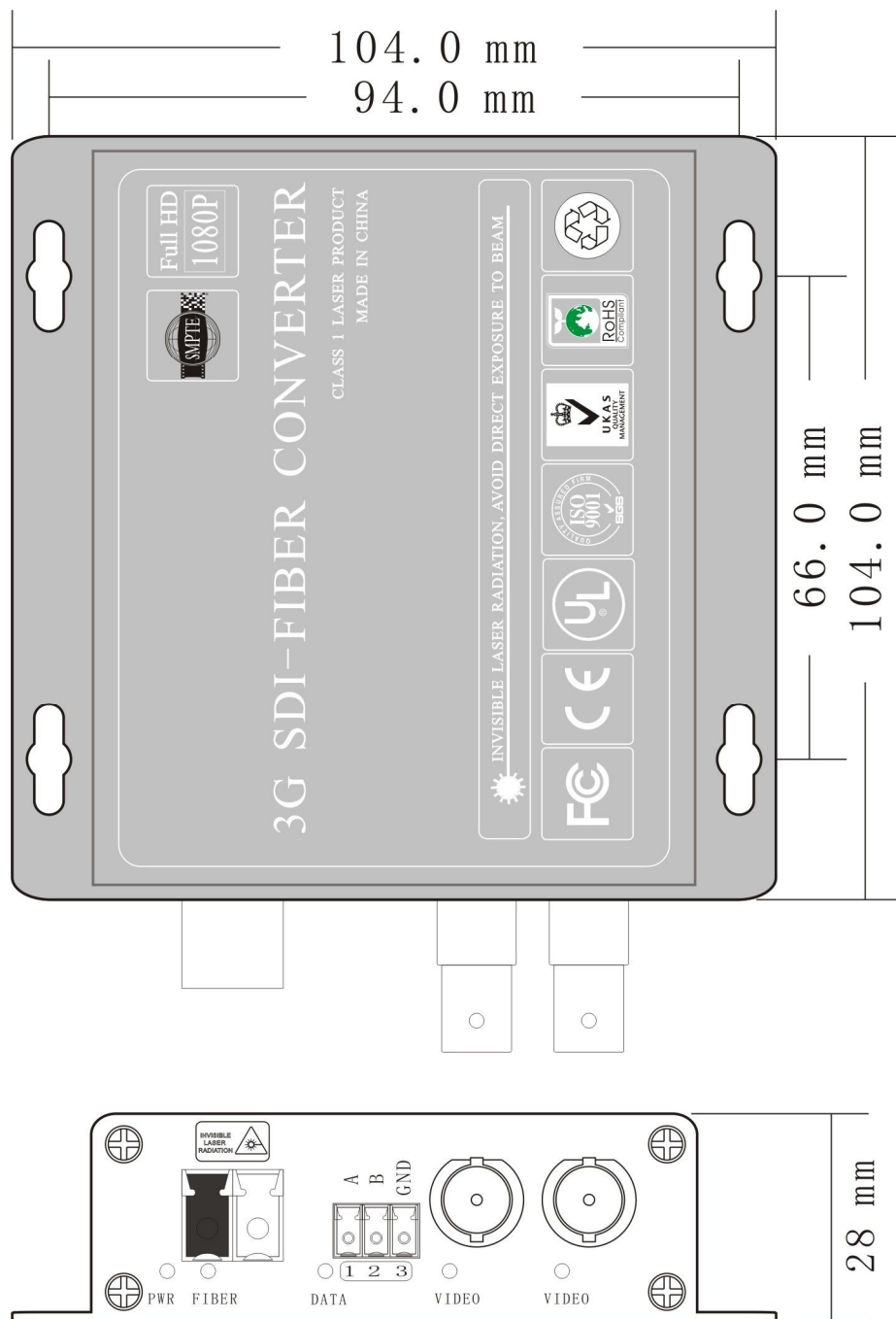
Video:

SDI Input	
Signal Type SDI	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
Data Rates	270Mbit/s - 1.48Gbit/s - 3Gbit/s
Cable Equalization	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Connector	BNC 75 Ohm

General:

Input Power	5 V DC
Power consumption (maximum)	Transmitter: 1.8W Receiver: 1.5W
Operating temperature	0°C to 55°C
Storage temperature	-10°C to 70°C
Operating humidity	0 ~ 95% (non-condensing)
Net Weight	310g per pair
Case material	Aluminum

Dimension



Transmitter



Receiver



Ordering Information

CSDI ☐ ☐ ☐ - ☐ ☐ (☐ - ☐)

Data Rate:
5: 1.5G
6: 3G
7: 1.5G/155M
8: 3G/155M

Distance:
1: 10KM
2: 20KM
4: 40KM
8: 80KM

Normal
wavelength:
08: 850nm
13: 1310nm
15: 1550nm
CWDM
wavelength:
47: 1470nm
49: 1490nm
51: 1510nm
53: 1530nm
55: 1550nm
57: 1570nm
59: 1590nm
61: 1610nm

T:Tranmitter
R:Receiver

OPTION:
B:Just pcb board,no case

Output Power