

FlexiOptic Series

Fiber Optical Solution

FlexiOptic is a portable multi-purpose optical transmission device with compact size and reliable performance. It provides four independent 12G-SDI channels, two serial communication channels, one gigabit ethernet, one synchronization and four GPIOs. It is perfectly suitable for the transmission of various signals in live production, and can be adapted to the whole series of INCAM micro cameras and remote control heads. FlexiOptic can be connected by single-mode fiber, or uses optional power supply unit to connect on SMPTE hybrid cable, and supply power to remote device at the same time.



Features

- 1RU half-width compact size with AC/DC redundant power supply
- Compatible with common single-mode fiber, transmission distance up to 10 km, 80km long-haul module optional.
- Independent video transmission channels with re-clocking and cable equalization, all input/output processing passed Pathological test
- Data transmission supports serial communication, GbE and GPIOs. Serial communication channel supports RS-422 and SONY camera interface
- Optional power supply unit can supply 100W power to remote device up to 1 km away
- Optional video expand unit supports third-party optical transmission equipment by Duplex CWDM technology

Model Instructions

OTX – CMDS – V 4 0

① ② ③ ④

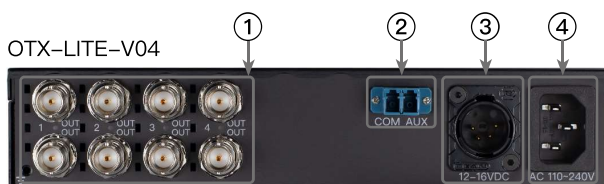
- ① Model Type: FlexiOptic series
 - ② Options: LITE – Only SDI
ETH – Includes network
CMDS – Includes network, sync, RS-422
 - ③ Number of input channel: 0 to 4
 - ④ Number of output channel: 4 to 0
- The total number of input and output is not more than 4

View

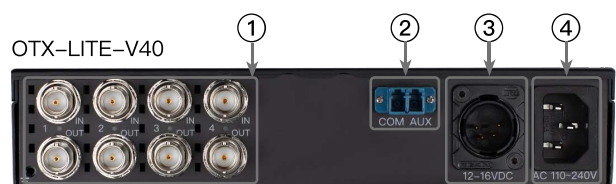


Front View

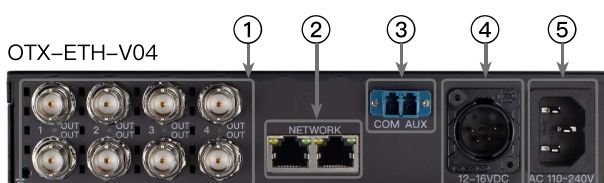
- ① Fan
- ② Status LED
- ③ Function keys



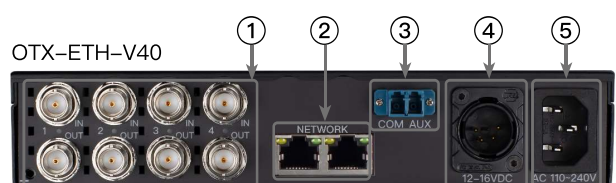
- ① SDI Input / Output
- ② LC Connector
- ③ DC Power Connector
- ④ AC Power Connector



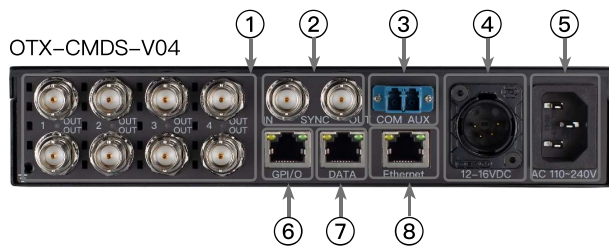
- ① SDI Input / Output
- ② LC Connector
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- ④ AC Power Connector



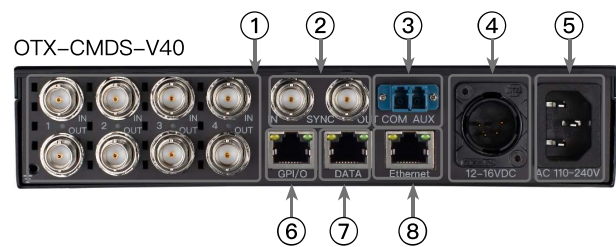
- ① SDI Input / Output
- ② Ethernet Connector
- ③ LC Connector
- ④ DC Power Connector
- ⑤ AC Power Connector



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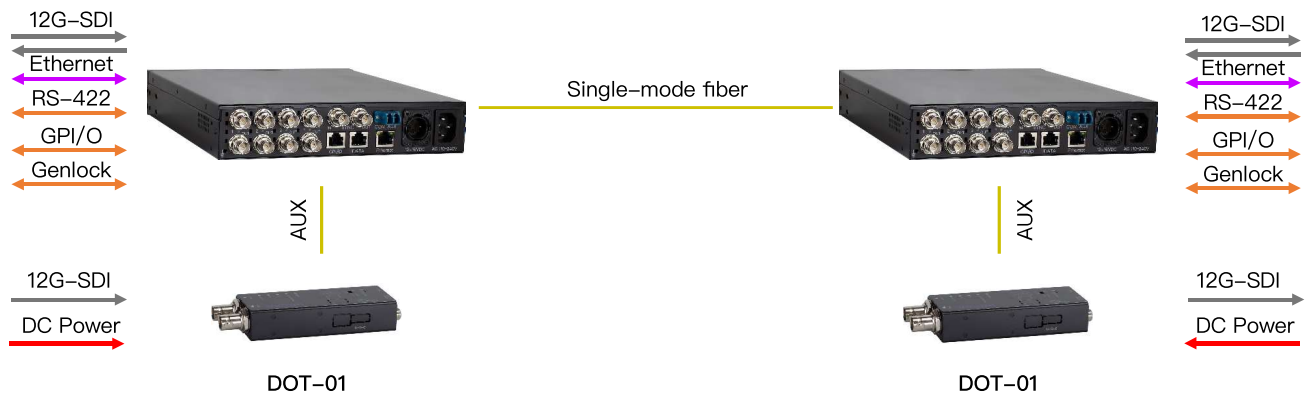
- ① SDI Input / Output
- ② SYNC Input / Output
- ③ LC Connector
- ④ DC Power Connector
- ⑤ AC Power Connector
- ⑥ GPI/O Connector
- ⑦ RS-422 Connector
- ⑧ Ethernet Connector



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System Configuration

Transmission distance up to 10 km using single-mode fiber



Technical Specifications

Dimension	Weight	Power	Operating Temperature	Operating Humidity
218mm×43.4mm×270mm	Approx. 2.2kg	AC 100-240V, DC 9-16.8V, 30W	0°C to +40°C	20% to 80%
Ethernet	Synchronization	RS422	GPI/O	Optical
RJ45(x1), 1000BASE-TX	BNC (Bi-directional)	RJ45 2CH (support SONY)	RJ45, 2 input 2 output	LC (x2)
Video Format	Connectors	Signal Format	Impedance	Cable Equalization
12G-SDI	BNC (x8) Max. 4 channel with loop out and reclocking	SMPTE ST 2082-1/2081-1	75Ω/>4dB	50m, Belden 4794R
3G-SDI		SMPTE 424M/292M/259M	75Ω/>10dB	100m, Belden 1694A
Video Format	Signal Amplitude	DC offset	Rising/Falling Time	Jitter Timing/Align
12G-SDI	800mV	0V±5mV	38ps/37ps	0.58UI/0.10UI
3G-SDI			56ps/ 52ps	0.12UI/0.05UI