

ProOptic Series

All-in-One Optical Transmission Platform

The ProOptic series is a diversified and versatile optical signal solution. It supports 12 channels of 12G-SDI, 4 Bidirectional Audio with Phantom Power, 1 Independent Sync, 2 RS-422 Serial Data, 4 Gigabit Ethernet, 4 GPIO, etc. ProOptic series achieves signal extension unit via SMPTE hybrid cables, which can be widely used in applications such as Venue Production and Sports Broadcasting.



Feature

- A compact 2RU unit designed for rack-mounted applications
- 12G-SDI video transmission, compatible with 6G/3G/1.5G/SD
- Supports MADI audio transmission
- Supports SYNC transmission (Black Burst, Tri-Level)
- Supports Time Code transmission
- Equipped with redundant wide-range AC power supply
- Features temperature monitoring and intelligent fan control
- Fitted with a 256x64 pixel monochrome wide-viewing angle OLED display

Signal Input/Output

- 12 x 12G/6G/3G/HD/SD-SDI Input/Output
- 1 x SYNC Input with loop(Near end), 2 x SYNC Output(Far end)
- 1 x TC Input with loop(Near end), 2 x TC Output(Far end)
- 4 x GPI Input(Near end), 4 x GPO Output(Far end)
- 2 x RS422, support SONY Protocol
- 4 x 1G Ethernet with POE (IEEE802.3af)
- 4 x Audio IN with +48V Phantom Power, 4 x Audio OUT
- 2 x LC connector
- 1 x SMPTE Hybrid cable connector(Optional)

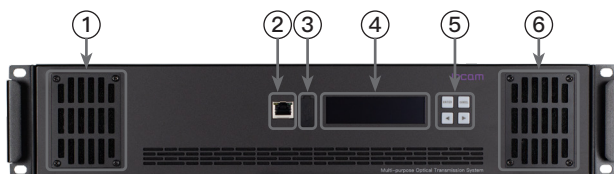
Signal Monitoring

- SDI Signal Rate Monitoring
- SDI Signal Level Monitoring
- Audio Level Monitoring

User Interface

- OLED Display with Four-Key Navigation
 - SDI Video Format & Signal Quality
 - Optical Signal Quality
 - Data Signal Status
 - Audio Level Indicators
 - Fan Status
 - System Temperature (Average & Maximum)

Front Panel



Front Panel

- | | |
|-----------|-----------------|
| ① Fan | ④ OLED Screen |
| ② Control | ⑤ Screen button |
| ③ USB | ⑥ Fan |

Model Instructions

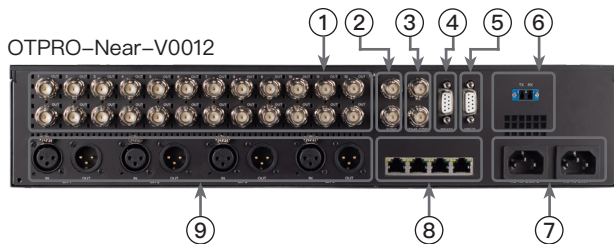
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① ② ③ ④

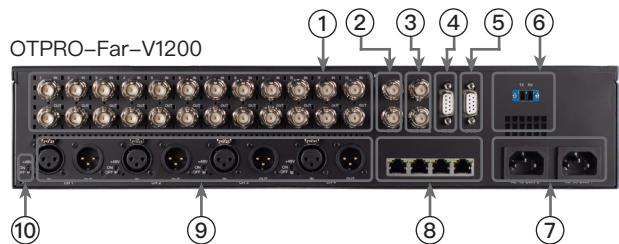
- ① Model Type: ProOptic series
- ② Options: Near: Single-mode fiber connection at OB side
Far: Single-mode fiber connection at CAM side
FXW: SMPTE connection at OB side
EDW: SMPTE connection at CAM side
- ③ Number of input channel: 0 to 12
- ④ Number of output channel: 12 to 0

The total number of input and output is not more than 12

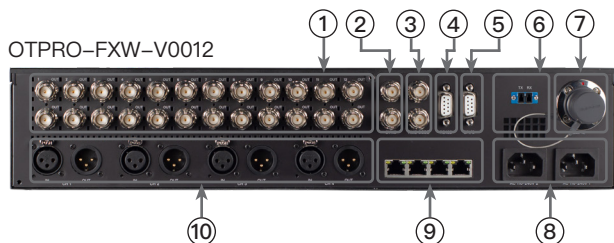
Rear Panel



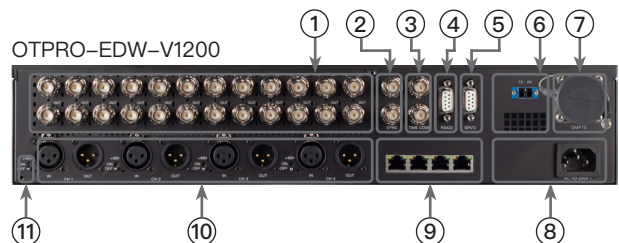
- ① SDI In with loop out
- ② SYNC with loop out
- ③ TC with loop out
- ④ RS422
- ⑤ GPI
- ⑥ LC Fiber connector
- ⑦ Dual Power supply
- ⑧ 1G Ethernet
- ⑨ Audio



- ① SDI In
- ② Sync Out
- ③ TC Out
- ④ RS422
- ⑤ GPO
- ⑥ LC Fiber connector
- ⑦ Dual Power supply
- ⑧ 1G Ethernet
- ⑨ Audio
- ⑩ +48V Phantom Power



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Technical Sepecification

SDI	75Ω 12G/6G/3G/HD/SD
Output Standard	ST-2082-1 (12G)、ST-2081-1 (6G)、ST-424 (3G)、ST-292 (HD)、ST-259 (SD)、DVB-ASI、AES10
Cable Equalization	>60m @ 12G, >100m @ 6G, >150m @ 3G, >250m @ 1.5G, >500m @ 270Mbps
SDI Output	800mV±4mV, 38ps/37ps @ 12G, 56ps/52ps @ 3G, 0.58UI/0.10UI @ 12G, 0.12UI/0.05UI @ 3G
Ethernet	10M/100M/1000M adaptive, Jumbo Frame Support, PoE compliant with IEEE 802.3af (IEEE 802.3af)
Input Standard	RFC 2544 Standard
SYNC	Black Burst NTSC/PAL, Tri-level 1080i 50/59.95/60, Tri-level 1080p 23/24/25/29/30, 720p 23/24/25/29/30/50/59.94/60
Timecode	SMPTE, 23.98/24/25/29.97/29.97DF/30/50/60 fps, ±0.5ppm
RS422	Max Data Rate 10Mbps, compatible with +3.3V and +5V logic levels; SONY 8Pin Protocol
GPI/O	Compatible with +3.3V and +5V logic levels
Audio	20-20kHz @ 48 kHz sample rate
Dimension	0° C to +40° C (Condensation-free)
	110 - 240VAC 50/60Hz, 45W
	L x H x W : 483mm (19") x 88.5mm (2 RU) x 340mm, Weight: 3.5kg