

## DockOptic Series

### Fiber Optical Solution for PTZ cameras

DockOptic-PTZ is a portable multi-purpose optical transmission device with small size and reliable performance, meeting the broadcasting production workflows. It supports 1 x 12G-SDI and 1 fiber input with 12G SFP at CAM side, and receive 2 x 12G-SDI output at CCU side. It also provides 1 x RS-422, 1 x Gigabit Ethernet, 1 x SYNC, 1 x Timecode and 2 x GPIO.

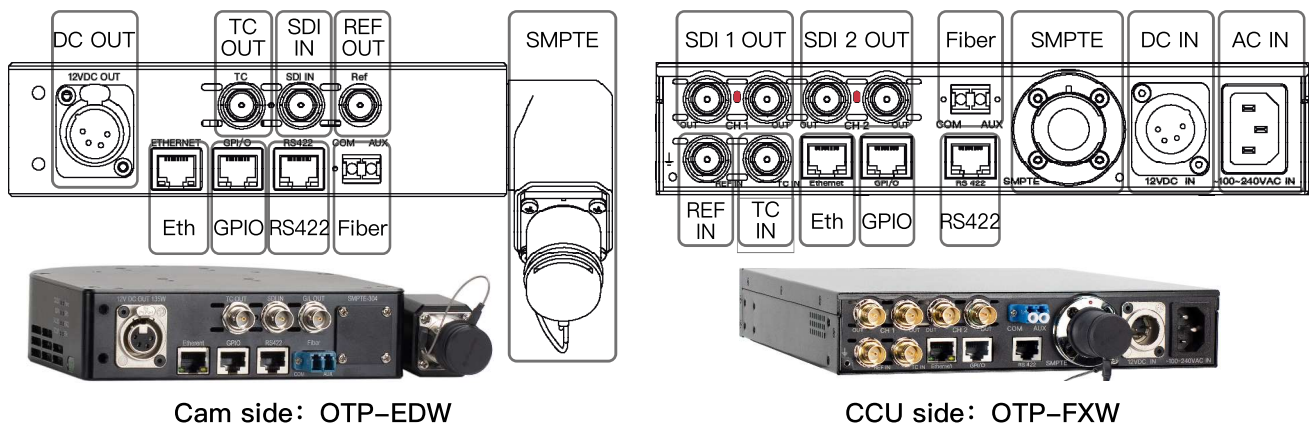
DockOptic-PTZ is easy to install with 1/4 screwed holes, making it compatible with a variety of mounting accessories, which can be installed in various shooting environments such as tripods, walls and ceilings. DockOptic-PTZ can be connected using SMPTE hybrid cable, supplying power to remote devices up to 1km.



### Feature

- Compatible with Panasonic UE150, 160, Sony ILME-FR7, BRC-AM7, etc.
- 1 RU Compact Near end unit in half rack width, with dual power supply;
- 130W 12VDC power output at far end with optional 19VDC version
- Cable length up to 1km when powered by standard SMPTE hybrid cable
- Built-in bidirectional CWDM, support 1 x 12G-SDI from AUX interface from SFP
- Support RS-422, GPIO, GbE, TC, and Sync

### Interface



### Ordering Informantion

2 x 12G-SDI:

- OTP-EDW-V10-A/B CAM side (1 x 12G-sdi input with loop) + SFP
- OTP-FXW-V02 CCU side (2 x 12G-sdi output)

1 x 12G-SDI:

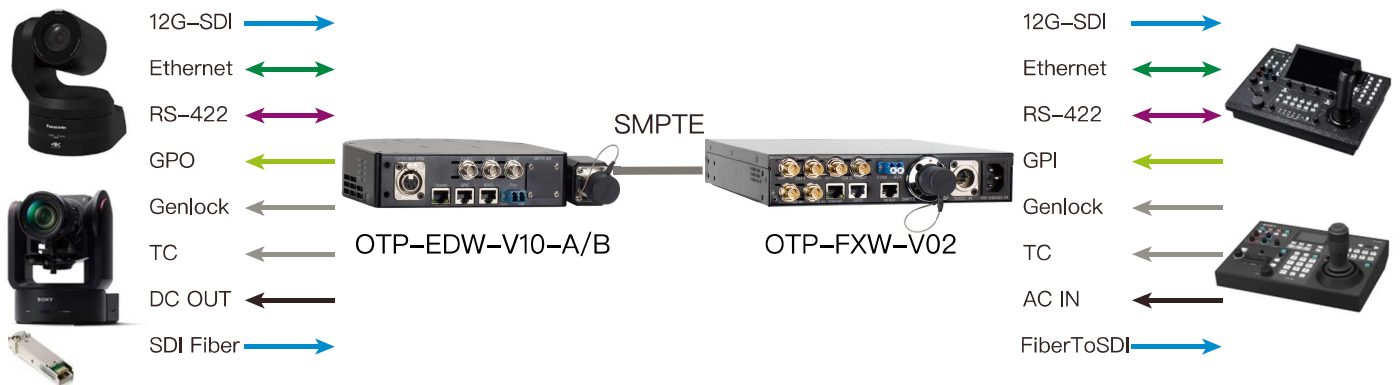
- OTP-EDW-V00-A/B CAM side (no sdi in) + SFP
- OTP-FXW-V01 CCU side (1 x 12G-SDI output with loop)

\*A refers to 12VDC power supply, which is compatible with Panasonic UE150, UE160 and Sony BRC-AM7.

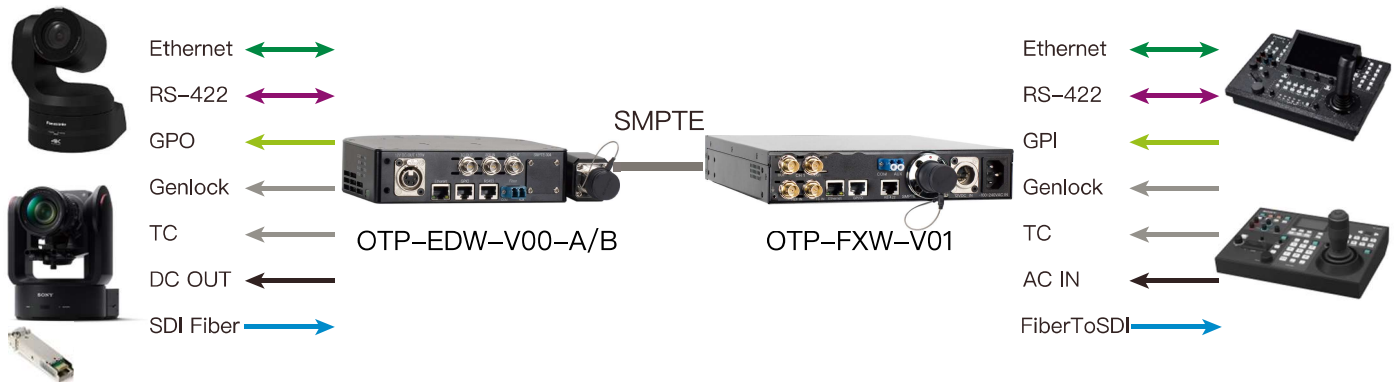
B refers to 19VDC power supply, which is compitable with Sony ILME-FR7.

## Application

### App1: 2 x 12G-SDI



### App2: 1 x 12G-SDI



## Technical Specification

| Dimension               | Weight                | Power                  | Operating Temperature | Operating Humidity |
|-------------------------|-----------------------|------------------------|-----------------------|--------------------|
| 225*168*42/271*218*44mm | 2.3/1.5kg (Near/ Far) | AC 100-240V,DC 9-16.8V | -10°C to +40°C        | 20% to 80%         |

| Transmission Distance | Wavelength       | Transmit Power | Receive Sensitivity | Connection     |
|-----------------------|------------------|----------------|---------------------|----------------|
| 10km (typ.)           | 1310nm to 1450nm | 0dBm           | -15dBm              | SMPTE 304M(x1) |

| Ethernet              | Serial Data      | SYNC        | GPIO                 | Timecode |
|-----------------------|------------------|-------------|----------------------|----------|
| RJ45(x1) ,1000BASE-TX | RJ45(X1), RS-422 | BNC (x1),BB | RJ45 (X1), 2 x Tally | BNC(x1)  |

| Video Format | Interface       | Signal Standard        | Resistance | Cable Equalization |
|--------------|-----------------|------------------------|------------|--------------------|
| 12G-SDI      | BNC (x4) (Near) | SMPTE ST 2082-1/2081-1 | 75Ω />4dB  | 50m, Belden 4794R  |
| or 3G-SDI    | BNC (x1) (Far)  | SMPTE 424M/292M/259M   | 75Ω />10dB | 100m, Belden 1694A |

| Video Format | Signal Amplitude | DC offset | Rising/Falling Time | Jitter Timing/Align |
|--------------|------------------|-----------|---------------------|---------------------|
| 12G-SDI      | 800mV            | ±4mV      | 38ps/37ps           | 0.58UI/0.10UI       |
| or 3G-SDI    |                  |           | 56ps/ 52ps          | 0.12UI/0.05UI       |