

Electric to Optical Converter Model EO3G-200



MAW150E V3.0

Safety Precautions

Instruction Manual

Use of controls or adjustments or performances other than those specified herein may result in hazardous radiation exposure.



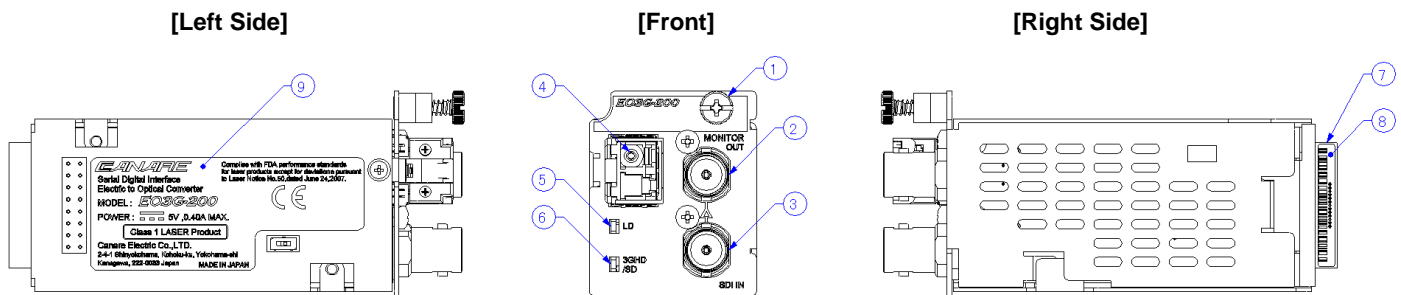
CAUTION

- EO3G-200 Converter is a Class 1 Laser product. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50 dated June 24, 2007.
- Do not look into the LC connector directly.
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- Ensure that dust caps are attached to LC connector and BNC connector for each when not in use.

General Description

- An electric to optical converter for 3G-SDI, HD-SDI, SD-SDI and DVB-ASI (multi rate, multi format) video transmission
- A monitor out terminal equipped
- Cable equalizer and re-clocker equipped
- Capable of receiving and transmitting pathological test pattern (SMPTE RP178-2004, RP198-1998)
- Recommended to install in Canare's 161UPSC / 6PSC converter platform.

Outline & Functions



| | |
|---------------------------|---|
| 1) Captive Screw | To fix this product to the platform. |
| 2) BNC Connector | For connection with 75Ω coaxial cable to monitor the input signal. |
| 3) BNC Connector | For connection with 75Ω coaxial cable to input the signal. |
| 4) LC Connector | For connection with SM optical fiber. |
| 5) Status LED (LD) | Green light comes on when laser operating. |
| 6) Status LED (3GHD/SD) | Green light comes on when 3G-SDI or HD-SDI signal is input. Yellow light comes on when SD-SDI or DVB-ASI with 270Mbps signal is input. |
| 7) DIN Connector (16-pin) | For the power supply and status signal outputs. |
| 8) Connector Label | Production No. described |
| 9) ID Label | Describes the model name, rating, certifications, and so on. |

Mounting the Converter in the Power Unit

1. Install this product into the mounting slot of the platform* by gripping the captive screw as shown in Figure 1
Note: platform*: 6PSC, 161UPSC
2. Align the captive screw to correspond to the screw hole in the platform, and tighten securely with a philips head screw driver to secure this product.
3. Connect coaxial cable to this product's BNC connector.
4. Connect optical fiber to this product's LC connector.



Figure.1 EO converter installation

Note) Be sure to keep the ferrule tip of the plug and the internal of LC connector clean as shown in Figure 2 .
If a fiber-optic connector becomes dirty, the lighting output loss may be increased.

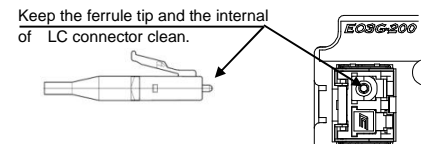


Figure.2 Cleaning portion

Specifications

| | | | |
|------------------------------------|--|-----------------------|---|
| Transmission Rate with re-clocking | 3G-SDI : 2.97Gbps, 2.97/1.001Gbps | EMC | : FCC part15 Subpart B |
| | HD-SDI : 1.485Gbps, 1.485/1.001Gbps | | : EN55032 |
| | SD-SDI : 270Mbps, | | : EN55024 |
| | DVB-ASI : 270Mbps | | : EN55035 |
| Light Emission Wavelength | : 1310nm (FP-LD) | Operating Temperature | : 0°C to 40°C (no condensation) |
| Optical Fiber | : 1-core single mode | Storage Temperature | : -40°C to 85°C |
| Fiber-Optic Connector | : LC type | Power Source | : +5VDC ±0.5V |
| Laser Product Class | : Class1, IEC60825-1:2007 | Power Consumption | : Max. 0.40A |
| Maximum Light Emission Level | : 0dBm | Weight | : Approx. 150g |
| Cable Length Equalization | 3G-SDI : Max. 100m (5C-FB, 2.97Gbps, pathological signal) | Dimensions | : 78.4mm(D) × 43.4mm (H) × 35.5mm (W) (excluding connectors) |
| | HD-SDI : Max. 200m (5C-FB, 1.485Gbps, pathological signal) | Accessories | : LC connector dust cap 1 |
| | SD-SDI : Max. 420m (5C-FB, 270Mbps, pathological signal) | | : BNC connector dust cap 2 |

The exterior features and specifications in this document are subject to change due to modification without prior notice.