Electric to Optical Converter
Model EO3G-100

MAW134E V4.0

Safety Precautions

Instruction Manual

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

CAUTION

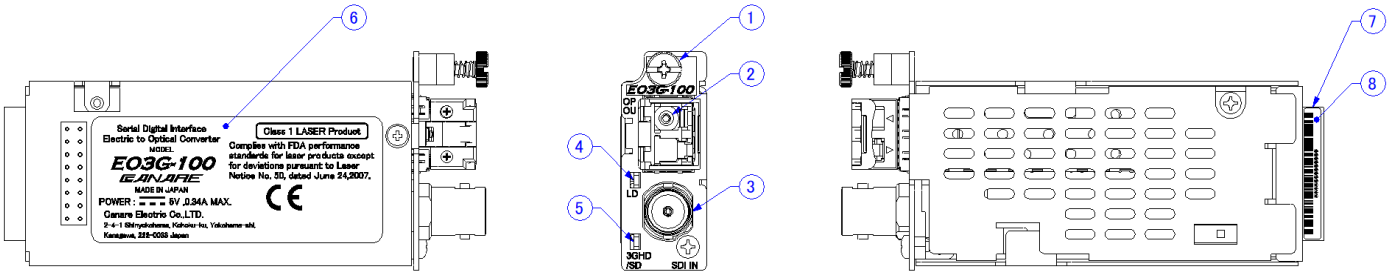
- EO3G-100 Converter is a Class 1 laser product. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50 dated June 24, 2007.
- Do not look into the LC connecter directly.
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- 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
- Cable equalizer and re-clocker equipped
- Available to support the pathological pattern(SMPTE RP178-2004,RP198-1998)
- Installation to Canare's plug-in platforms available

Outline & Functions

[Left Side] **[Front]** **[Right Side]**



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

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.

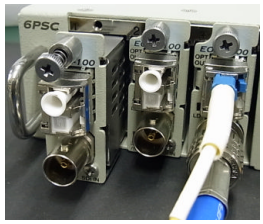


Figure.1 EO converter installation

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.

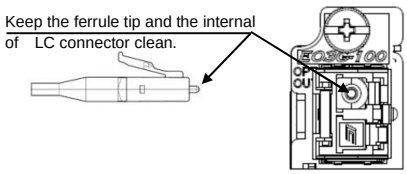


Figure.2 Cleaning portion

Specifications

Transmission Rate with re-clocking
- 3G-SDI : 2.97Gbps, 2.97/1.001Gbps
- HD-SDI : 1.485Gbps, 1.485/1.001Gbps
- SD-SDI : 270Mbps,
- DVB-ASI : 270Mbps

Light Emission Wavelength : 1310nm (FP-LD)
Optical Fiber : 1-core single mode
Fiber-Optic Connector : LC type
Laser Product Class : Class1, IEC60825-1:2007
Maximum Light Emission Level : 0dBm
Cable Length Equalization
- 3G-SDI : Max. 100m (5C-FB, 2.97Gbps, pathological signal)
- HD-SDI : Max. 200m (5C-FB, 1.485Gbps, pathological signal)
- SD-SDI : Max. 420m (5C-FB, 270Mbps, pathological signal)

EMC : FCC part15 Subpart B
: EN55032
: EN55024
: EN55035
Operating Temperature : 0℃ to 40℃ (no condensation)
Storage Temperature : -40℃ to 85℃
Power Source : +5VDC ±0.5V
Power Consumption : Max. 1.7W
Weight : Approx. 100g
Dimensions : 78.4mm(D)×43.4mm (H)×17mm (W) (excluding connectors)
Accessories : LC connector dust cap 1
: BNC connector dust cap 1

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

Canare Electric Co.,Ltd.
URL http://www.canare.com

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