Optical to Electric Converter
Model OE3G-201

MAW151E 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

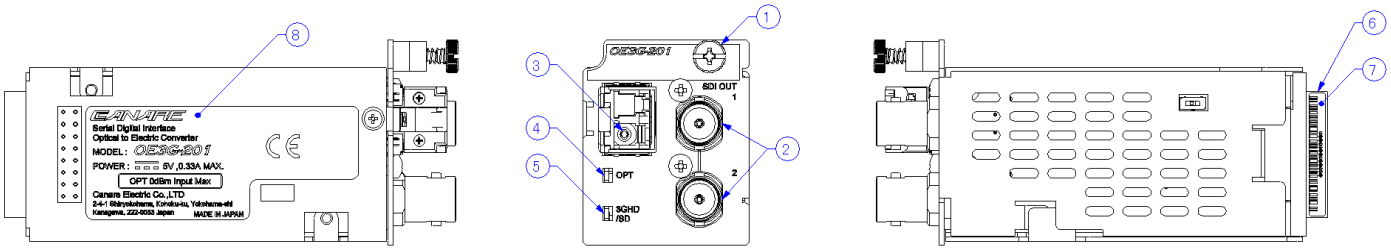
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- Ensure that the dust caps are attached to LC connector and BNC connector for each when not in use.

General Description

- An optical to electric converter for 3G-SDI,HD-SDI,SD-SDI and DVB-ASI(multi rate, multi format) video transmission
- Two electric output terminals equipped
- Cable driver and re-clocker equipped
- Receives optical signal of wavelength ranging from 1200nm to 1620nm
- Supports pathological pattern(SMPTE RP178-2004,RP198-1998)
- Recommended to install in Canare's 161UPSC / 6PSC converter platform.

Outline & Functions

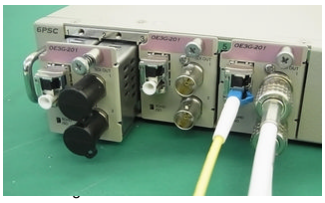
[Left Side] **[Front]** **[Right Side]**



1) Captive Screw	To fix this product to the platform.
2) BNC Connectors	For connection with 75Ω coaxial cable to output the signal. Making use of two BNC terminals enables to monitor or distribute the transmission signal.
3) LC Connector	For connection with SM optical fiber.
4) Status LED (OPT)	Lights up in Green when optical signal is being received.
5) Status LED (3GHD/SD)	Lights up in Green when 3G-SDI or HD-SDI signal is input. Lights up in Yellow on when SD-SDI or DVB-ASI with 270Mbps signal is input.
6) DIN Connector(16-pin)	For the power supply and status signal outputs.
7) Connector Label	Production No. described.
8) 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 Figure1.
   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.



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.

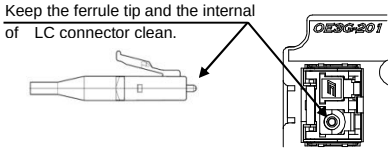


Figure.2 Cleaning portion

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 Reception Wavelength	: 1260nm to 1650nm
Optical Fiber	: 1-core single mode
Fiber-Optic Connector	: LC type
Minimum Light Reception Level	: -23.0dBm@1.485Gbps
	: -22.0dBm@2.97Gbps
Overload Optical Power	: 0dBm
Device Damaging Optical Power	: +5dBm

EMC	: FCC part15 Subpart B
	: EN55032
	: EN5502
	: EN55035
Operating Temperature	: 0℃ to 40℃ (no condensation)
Storage Temperature	: -40℃ to 85℃
Power Source	: +5VDC ±0.5V
Power Consumption	: Max. 0.33A
Weight	: Approx. 150g
Dimensions	: 78.0mm(D)×43.4mm (H)×35.5mm (W) (excluding connectors)
Accessories	: Fiber-optic adapter dust cap 1
	: BNC receptacle dust cap 2

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

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