

Safety Precautions

Instruction Manual

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



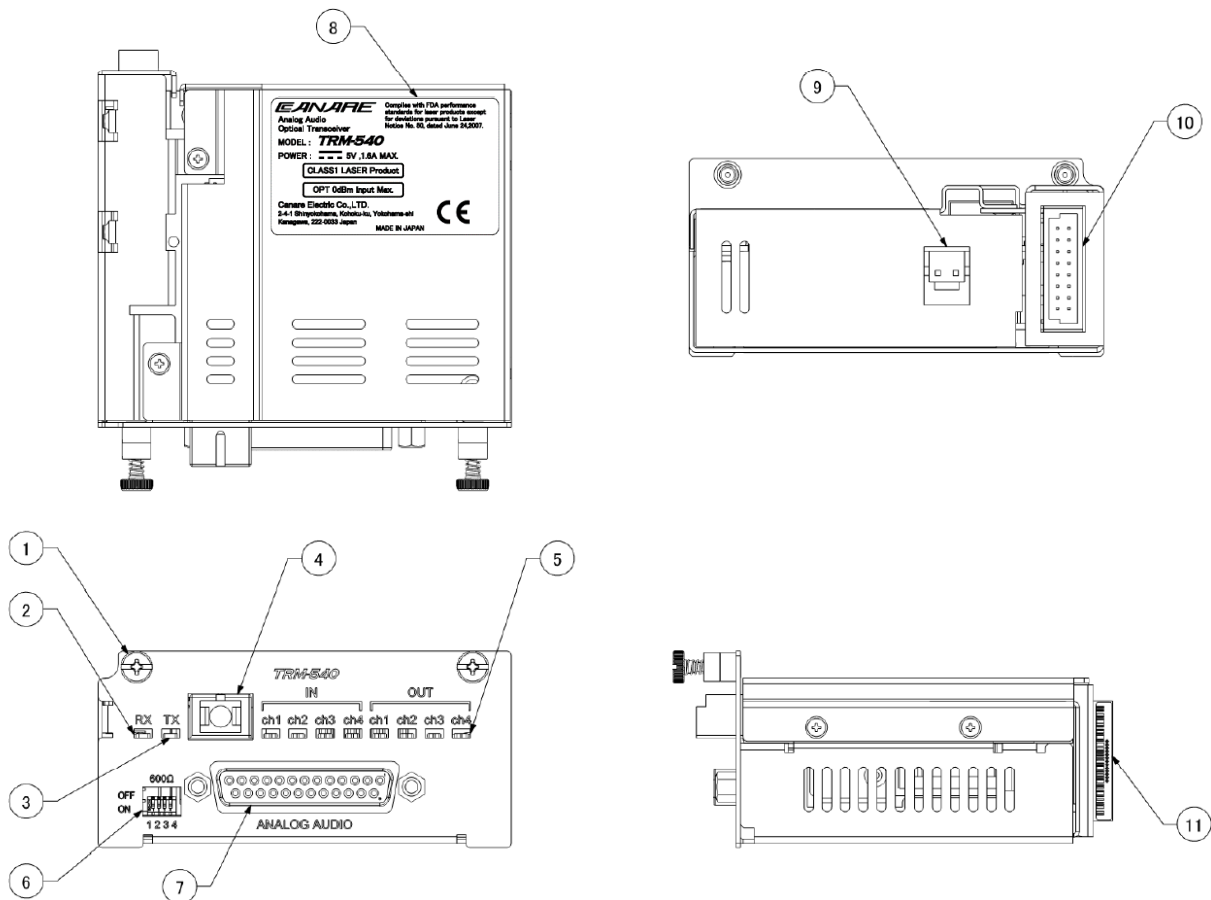
CAUTION

- TRM-540 and TRM-541 Converter are Class 1 laser products. 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 SC connector directly.
- Do not block the vents. The blocking raises an internal temperature and may cause damages.
- Ensure that dust caps are attached to SC connector when not in use.

General Description

- An electric to optical and optical to electric converter for analog audio transmission
- Transmit and receive 4 balanced audio signals
- The maximum input/output level : +24dBu, The dynamic-range: 108dB
- 1 fiber bi-directional optical interface
 - The wavelength TRM-540: 1310nm, TRM-541 : 1550nm. TRM-540 and TRM-541 are used as a set.
- Installation to Canare's plug-in platforms available

Outline & Functions



① Captive screw	To fix this product to converter platform
② LED (RX)	Optical signal receiving status.
③ LED (TX)	Laser status
④ SC connector	Bi-directional optical connector Connect single mode optical fiber
⑤ LED (ch1-4 IN/OUT)	Audio signal status
⑥ Termination switch	ON/OFF switch of the 600Ω termination resistors
⑦ D-sub 25pin connector	D-sub connector for audio signal inputs and outputs
⑧ Main label	Described model name, rating and/or certifications
⑨ Power connector (2pin)	Power supply
⑩ DIN connector (16pin)	Power supply Monitor signals output
⑪ Connector label	Described serial number

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

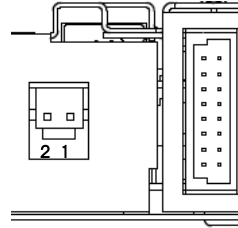
Optical Converter TRM-540/541



MAW148_E Rev6.0

Power Connector Pin Assignment (Connector: B2PS-VH)

Pin	Name	Function
1	+5V	DC5V power input
2	GND	Ground



D-sub 25pin Pin Assignment (Connector: D-sub25Pin Female)

Pin	Name	Pin	Name
1	CH4_OUT+	14	CH4_OUT-
2	GND	15	CH3_OUT+
3	CH3_OUT-	16	GND
4	CH2_OUT+	17	CH2_OUT-
5	GND	18	CH1_OUT+
6	CH1_OUT-	19	GND
7	CH4_IN+	20	CH4_IN-
8	GND	21	CH3_IN+
9	CH3_IN-	22	GND
10	CH2_IN+	23	CH2_IN-
11	GND	24	CH1_IN+
12	CH1_IN-	25	GND
13	GND		

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 the cable to this product's D-sub connector.
4. Referring to Figure 2, be sure to clean the ferrule tip of the plug and the interior of the optical converter's adapter. If the fiber-optic connector becomes dirty, light loss could increase, which can have a detrimental effect on fiber-optic transmission.
5. Connect the single-mode fiber-optic cable with an SC connector to the optical converter's SC adapter. Make sure to insert the SC connector into the SC adapter until the white line on the SC connector's tip is hidden and becomes invisible. Connection completion is confirmed by a click fit sound and tactile feedback. If no fit sound is heard or no tactile feedback is felt, re-perform the connection. Imprecise connections may result in malfunctions such as unstable optical power and disconnection of the SC connector.



Figure.1 Optical converter installation

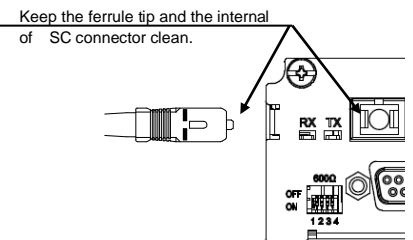


Figure.2 Sections to clean

Specifications

Audio Specifications	EMC	: FCC part15 Subpart B : 2013 Class A
Frequency Response : 20Hz~40kHz (-3/+0.1dB)		: EN55022:2010 Class A
Input / Output Level : +24dBu (Max.)		: EN55024:2010
SNR : 108dB	Operating Temperature : 0~40°C	
THD+N : 0.01% (at +4dBu Input)	Storage Temperature : -40~85°C	
Number of Inputs : 4	Power Source : DC 5V±5%	
Number of Outputs : 4	Current Consumption : 1.6A (Max.)	
Light Emission Wavelength : 1310nm (TRM-540)	Dimensions : 91mm(W) × 43.4mm(H) × 78.4mm(D)	(excluding connectors)
	Weight : Approx. 265g	
Optical Fiber : 1-core single mode	Accessories : SC connector dust cap 1	
Fiber-Optic Connector : SC		
Light Emission Level : -8dBm (Max.):		
Power Budget : 17dB		
Laser Product Class : Class1, IEC60825-1:2007		

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