



# Triplex (RGB) Fiber Coupled White Light Laser Module



**2023 V3**

For customized projects please Contact us:

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SIMTRUM offers the **Triplex (RGB) Fiber Coupled White Light Laser Module**. We couple the Red (635nm), Green (520nm) and Blue (445nm) Laser into one piece of fiber to get the white Color Laser. The Fiber Type can be Single mode Fiber (SMF), Multimode Fiber (MMF) and Polarization Maintaining Fiber (PMF). The fiber core can be 3um, 9um, 105um, etc. The output power can be up to 200mW. By controlling the ratio of RGB Lasers, we can get a perfect white laser. Meanwhile, by adjusting the ratio, various colors of the laser also can be obtained.

SIMTRUM also offers Customized solutions for Triplex Laser Modules, such as Customized Wavelength, Customized Power and Customized Fiber Core to meet the special needs of customers.

SIMTRUM uses laser welding technology to guarantee the long-term reliability of the laser structure. To ensure long-term reliability, each laser diode will undergo rigorous testing and aging in the factory. Meanwhile, high-low storage temperature circulation is also necessary for each laser diode. We set the storage temperature range from -40°C to +85°C, and it lasts 10 cycles, which will ensure the long-term reliability of the coupling structure.



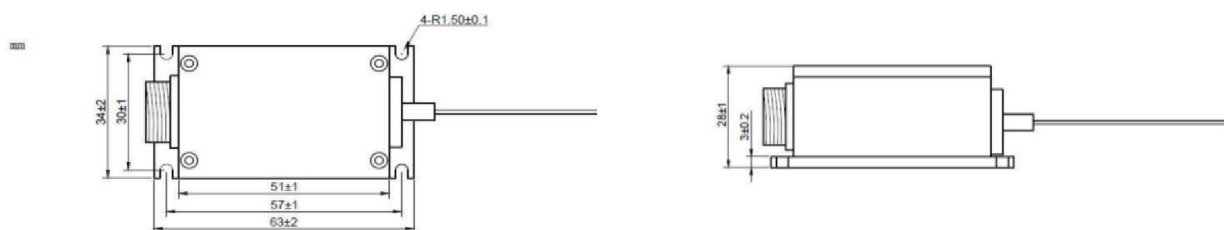
## Features

- RGB (635nm+520nm+445nm) Solution
- SMF/MMF/PMF Optional
- White Color Laser Output
- Built-in TE Cooler Optional
- Long Lifetime
- High Stability

## Applications

- Endoscopy
- Aiming Beam
- Bioscience
- Illumination

## Packaging Information



## Specifications

Fiber Type	Part Number	Port-1	Port-2	Port-3	Package	Fiber Core	Electrical Specifications			TEC	Connector
							Threshold Current	Operating Current (Typ.)	Operating Voltage		
SMF	Triplex-STLX-RGB-010m-4-H-T	638nm/10mW	520nm/10mW	445nm/10mW	HHL-01	3um	Port 1 - 50mA Port 2 - 40mA Port 3 - 30mA	Port 1 - 160mA Port 2 - 180mA Port 3 - 120mA	Port 1 - 2.7V Port 2 - 7.0V Port 3 - 6.0V	V	FC/SMA905
	Triplex-STLX-RGB-015m-4-H-T	638nm/15mW	520nm/15mW	445nm/15mW	HHL-01	3um	Port 1 - 50mA Port 2 - 45mA Port 3 - 30mA	Port 1 - 180mA Port 2 - 200mA Port 3 - 120mA	Port 1 - 2.7V Port 2 - 7.0V Port 3 - 6.0V	V	FC/SMA905
	Triplex-STLX-RGB-020m-4-H-T	638nm/20mW	520nm/20mW	445nm/20mW	HHL-01	3um	Port 1 - 60mA Port 2 - 60mA Port 3 - 25mA	Port 1 - 200mA Port 2 - 240mA Port 3 - 140mA	Port 1 - 3.0V Port 2 - 7.5V Port 3 - 6.5V	V	FC/SMA905
SMF-28	Triplex-STLX-RGB-030m-9-H-T	638nm/30mW	520nm/30mW	445nm/30mW	HHL-01	9um	Port 1 - 50mA Port 2 - 40mA Port 3 - 30mA	Port 1 - 160mA Port 2 - 180mA Port 3 - 120mA	Port 1 - 2.7V Port 2 - 7.5V Port 3 - 6.0V	V	FC/SMA905
	Triplex-STLX-RGB-050m-9-H-T	638nm/50mW	520nm/50mW	445nm/50mW	HHL-01	9um	Port 1 - 65mA Port 2 - 65mA Port 3 - 25mA	Port 1 - 220mA Port 2 - 270mA Port 3 - 140mA	Port 1 - 3.0V Port 2 - 7.5V Port 3 - 6.5V	V	FC/SMA905
MMF	Triplex-STLX-RGB-030m-M-H-T	638nm/30mW	520nm/30mW	445nm/30mW	HHL-01	105um	Port 1 - 50mA Port 2 - 40mA Port 3 - 30mA	Port 1 - 150mA Port 2 - 180mA Port 3 - 100mA	Port 1 - 2.7V Port 2 - 7.0V Port 3 - 6.0V	V	FC/SMA905
	Triplex-STLX-RGB-050m-M-H-T	638nm/50mW	520nm/50mW	445nm/50mW	HHL-01	105um	Port 1 - 50mA Port 2 - 40mA Port 3 - 30mA	Port 1 - 160mA Port 2 - 200mA Port 3 - 120mA	Port 1 - 2.7V Port 2 - 7.0V Port 3 - 6.0V	V	FC/SMA905
	Triplex-STLX-RGB-080m-M-H-T	638nm/80mW	520nm/80mW	445nm/80mW	HHL-01	105um	Port 1 - 65mA Port 2 - 65mA Port 3 - 25mA	Port 1 - 220mA Port 2 - 270mA Port 3 - 140mA	Port 1 - 3.0V Port 2 - 7.5V Port 3 - 6.5V	V	FC/SMA905
	Triplex-STLX-RGB-100m-M-H-T	638nm/100mW	520nm/100mW	445nm/100mW	HHL-01	105um	Port 1 - 70mA Port 2 - 70mA Port 3 - 30mA	Port 1 - 230mA Port 2 - 280mA Port 3 - 150mA	Port 1 - 3.0V Port 2 - 7.5V Port 3 - 6.5V	V	FC/SMA905
	Triplex-STLX-RGB-001-M-H-T	638nm/1W	520nm/1W	445nm/1W	HHL-03	105um	Port 1 - 30mA Port 2 - 30mA Port 3 - 30mA	Port 1 - 160mA Port 2 - 210mA Port 3 - 130mA	Port 1 - 2.5V Port 2 - 5.0V Port 3 - 6.0V	V	FC/SMA905

Analog Modulation Optional | TTL Modulation Optional | Case Model: A-200 / A-300

Note V – yes, N – No, O – Optional

## Laser Beam With SMF

