

CATALOG

Triplex (RGB) Fiber Coupled

White Laser Module





WAVESPECTRUM GROUP was founded in 1999. It is comprised by a group of experienced and innovative experts in the fields of laser physics, materials science, electronic technology and mechanical design. It has established solid cooperation with some famous universities, research institutes and laboratories.

Wavespectrum products are widely used in space science, optical communication technology, laser display, laser medical, life sciences and materials processing. With the rapid development, R&D centers and production bases have been established in China and Europe. The current plant area is 4,000 square meters, including 2,000 square meters of Class 1,000 clean workshops.

Wavespectrum products include laser diodes, fiber-coupled laser modules and fiber-coupled laser systems with wavelengths from 405nm to 1920nm. Our products are used in medical, printing, laser display, life science, laser communication and other fields. At present, the products have all passed the certifications of ROHS, REACH, CE, etc. At the same time, we have got ISO90001 quality management system certification.

Wavespectrum has world-class R&D team, and it has the world first-class production processing plants. Our products can meet the military-grade production and design standards. The products are well acclaimed world-wide, such in Germany, Austria, the United States, Japan, South Korea and other parts of the world. We have established close cooperation with a number of well-known enterprises world-wide.

Wavespectrum offers laser products with wavelength ranges from 405nm to 1920nm.

405nm	445nm	465nm	488nm	505nm	515nm	520nm	525nm	635nm	650nm	660nm	670nm	680nm
685nm	760nm	785nm	790nm	808nm	830nm	850nm	860nm	880nm	905nm	915nm	940nm	980nm
1064nm	1210nm	1270nm	1280nm	1290nm	1310nm	1330nm	1350nm	1370nm	1390nm	1410nm	1430nm	1450nm
1470nm	1490nm	1510nm	1530nm	1550nm	1570nm	1590nm	1610nm	1625nm	1650nm	1720nm	1900nm	1920nm

CONTACT US

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Distributors Wanted World-Wide!

PRODUCT CONTENTS

Single Mode Fiber
Coupled Laser Diode



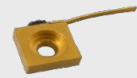
Multi-mode Fiber Coupled
Laser Module



Single Mode Laser Diode



Multi-mode Laser Diode



Collimated Laser Diode



Turnkey Fiber Coupled
Diode Laser System



OEM Fiber Coupled Diode
Laser System



Fiber Receptacle Laser
Module



405nm High Power Fiber
Coupled Laser Source



405nm Fiber Receptacle
Laser Module



Red & Green Aiming Beam
for Fiber Laser



Triplex (RGB) Fiber
Coupled White Laser
Module



Triplex (RGB) Fiber Coupled
White Laser System



3-wavelength (Multi-
wavelength) Fiber Coupled
Laser System



3-channel (Multi-channel)
Fiber Coupled Laser System



Multi-wavelength Fiber
Coupled Laser Module



High Power Fiber
Bundled Laser Module



Photodiode



Triplex (RGB) Fiber Coupled White Laser Module

PRODUCT FEATURE

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



PRODUCT OVERVIEW

Triplex (RGB) Fiber Coupled White Laser Module is the competitive product of WAVESPECTRUM.

We couple the Red (635nm), Green (520nm) and Blue (445nm) Laser into one piece of fiber to get the white Laser. The Fiber Type can be Single mode Fiber (SMF), Multimode Fiber (MMF) and Polarization Maintaining Fiber (PMF). The fiber core can be 4um, 9um, 105um, etc. The output power can be up to 200mW. By controlling the ratio of RGB Laser, we can get the perfect white laser. Meanwhile, by adjusting the ratio, various colors of laser also can be obtained.

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

WAVESPECTRUM uses laser welding technology to guarantee the long-term reliability of the laser structure. To ensure the long-term reliability, each laser diode will undergo rigorous testing and aging in the factory. Meanwhile, the 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.



Fiber Type	Part Number	Port-1	Port-2	Port-3	Connector	Fiber Core	TEC
Single Mode	Triplex-WSLX-445/010m-520/010m-635/010m-4-H-T	638nm/10mW	520nm/10mW	445nm/10mW	FC	3um	√
Single Mode	Triplex-WSLX-445/015m-520/015m-635/015m-4-H-T	638nm/15mW	520nm/15mW	445nm/15mW	FC	3um	√
SMF-28	Triplex-WSLX-445/030m-520/030m-635/030m-9-H-T	638nm/30mW	520nm/30mW	445nm/30mW	FC	9um	√
Multimode	Triplex-WSLX-445/050m-520/050m-635/050m-M-H-T	638nm/50mW	520nm/50mW	445nm/50mW	FC	105um	√

Note: √:Yes, ○:Optional, ×:No.

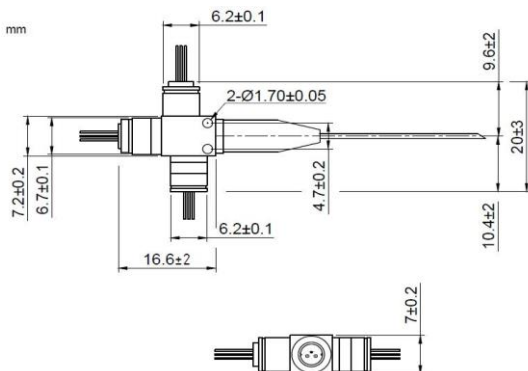
Various Wavelength Optional		
Port-1	405nm 445nm 488nm	Blue Laser
Port-2	505nm 520nm 525nm	Green Laser
Port-3	638nm 658nm 670nm 685nm	Red Laser

Various Fiber Type Optional	
SMF	3um
PMF	3um
MMF	9um 50um 105um 200um

Laser Beam With SMF:



Triplex Package View :



Triplex HHL Package View :

