



# Fiber Coupled Single Channel Multi-Wavelength Laser FC Series

Data Sheet



## Overview

The FC series is a series of fiber coupled single channel multi-wavelength lasers that can combine up to 6 wavelengths into one system. The laser series features integrated laser diode, laser cavity, fiber coupling optics, laser power supply and LD current in one box. The FC series is widely used in medical, biomedical, and industrial applications.

## Features

- Up to 6 wavelengths combined into one fiber output
- Wavelengths from 375nm to 1064nm
- Customized wavelength and output combinations
- Customized size available

## Applications

- Medical
- Biomedical
- Industrial

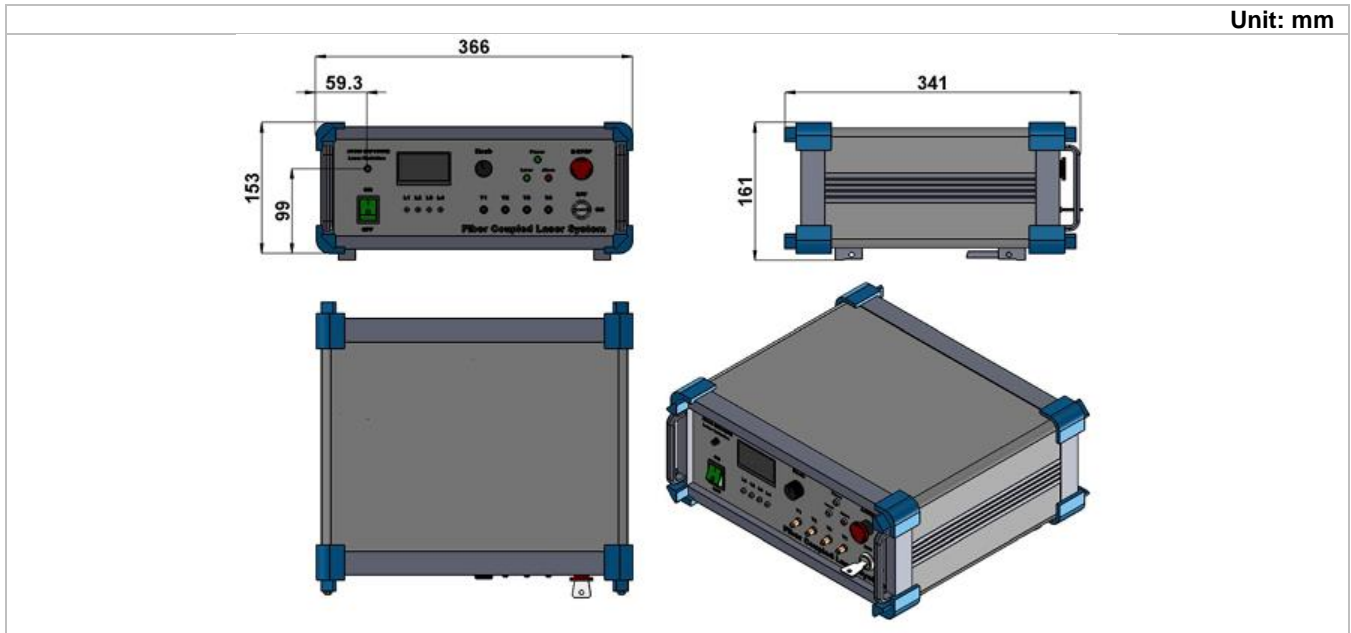
## FC Series Specifications

Parameter	FCVBGR1	FCVBGR2
Wavelength	Violet at 405nm, Blue at 447nm, Green at 532nm, Red at 637nm	Violet at 405nm, Blue at 488nm, Green at 532nm, Red at 637nm
Total output power after fiber	>10mW, >20mW, >50mW, >80mW, >100mW, >160mW	>10mW, >20mW, >50mW, >80mW, >100mW, >160mW
Operating mode	CW	
Power stability (rms, over 4 hours)	<5%, <3%, ,2%	
Fiber core diameter	400um	
Fiber connector	SMA905	
Input power	100-240VAC, 50 to 60 Hz	
Warm-up time	<10 min	
Operating temperature	10-35°C	
Modulation option	TTL/Analog: 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz	
Cooling method	Air cooled	
Expected lifetime	10,000 hours	
Warranty period	10 months	

## Remarks:

- Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.
- Specifications are subject to change without notice.

FC Series Laser Dimensions



Parameter	FC Series
Dimensions	366(L)x341(W) x161(H) mm <sup>3</sup>
Weight	3.0 kg

**Ordering Information**

For more information, please contact Lasermate directly at [sales@lasermate.com](mailto:sales@lasermate.com).

Part Number Configuration FC[1][2][3][4][5]					
FC = Laser Model Series	[1] = Wavelength	[2] = Output Power	[3] = Power Stability	[4] = Modulation	[5] = Fiber
	VBGR1= 405nm/447nm/532nm/637nm VBGR2= 405nm/488nm/532nm/637nm	10= >10mW 20= >20mW 50= >50mW 80= >80mW 100= >100mW 160= >160mW	A= <5% E= <3% 2= <2%	0=None T1=TTL 1Hz-1kHz T2=TTL 1kHz- 10kHz T3=TTL 10kHz- 30kHz A1=Analog 1Hz- 1kHz A2=Analog 1kHz- 10kHz A3=Analog 10kHz-30kHz	A= 400um MM fiber, SMA905 connector

Note: The above specifications are subject to change without notice.