

FiberRainbow™ Series

The FiberRainbow™ is an all-solid-state system, offering stable, high-performance RGB laser sources in a compact package. Designed for microscopy, spectroscopy, drug discovery and other biomedical applications, the FiberRainbow™ is specially suited to those applications which require high-performance RGB lasers in a compact package.

Utilizing a simple TTL user interface for input modulation along with single-mode fiber-output, the FiberRainbow™ provides a user-friendly optical hardware interface for a wide range of illumination applications. From simple narrow-band microscopy illumination to confocal microscopy, the FiberRainbow™ is ideally suited for multiplexed fluorophor tagged microscopy applications.

Compact RGB laser

Solid-state construction for extended lifetime

Slim form factor for low overhead in compact integration

RGB sources available in popular wavelengths possible over range:

- Blue: 440 / 488 nm

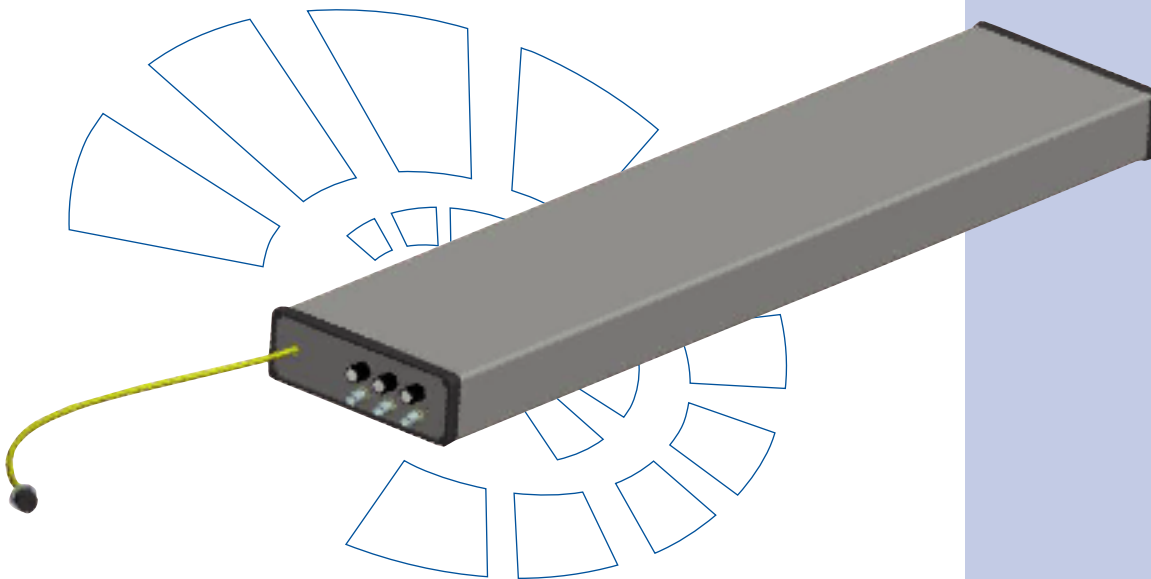
- Green: 514 / 532 nm

- Red: 635 / 658 / 670 nm

Electronic control via separate 50-msec RGB triggers enables switching at up to 10 kHz

Independent, manual power level adjustment from 0-20 mW on each RGB channel

highlights



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spec: BCL03_r001
date: 2005 09 01

Product P/N: FR-RRR-GGG-BBB



Physical Parameters	Symbol	Value
Blue Wavelength (nm)	BBB	430 - 490
Maximum Power (mWatt) [1]	PB	10 - 20
Wavelength 2 (nm)	GGG	510 - 580
Maximum Power (mWatt) [1]	PG	10 - 20
Wavelength 3 (nm)	RRR	600 - 670
Maximum Power (mWatt) [1]	PR	10 - 20
Average Power [2]		Adjustable from 0 to Maximum power
Switching Time [3]	T_s	50 μ sec

- [1] Maximum Power available differs depending on selected wavelength.
- [2] Power is adjustable via duty cycle modulation.
- [3] Time for 10-90% transition in power

Dimensions	L x W x H (mm)	Weight (kg)
Main Box	245 x 65 x 21	1.5

