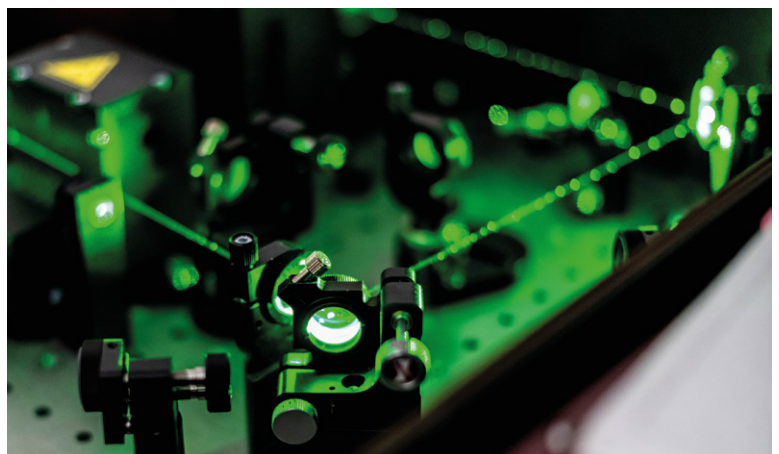
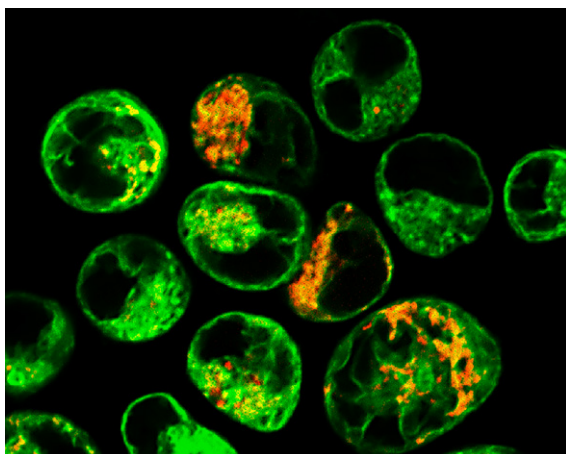
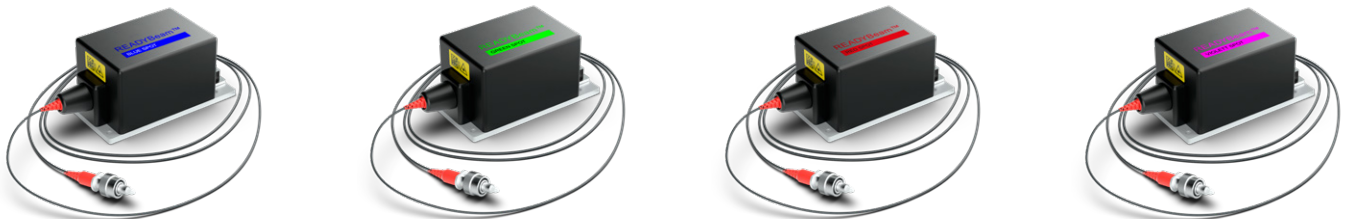


FISBA READYBeam™ SPOT Family

Compact laser source



While the READYBeam™ itself is the perfect tool for multicolor laser applications, in some cases you might want to choose your laser line individually. The FISBA READYBeam™ SPOT Family will give you maximum flexibility. Choose from a variety of different colors or ask us for a customized solution. The SPOT Family shares the same footprint and interface allowing an easy integration into an existing instrumental ecosystem.

The FISBA READYBeam™ SPOT lasers are available with a single mode fiber or as a free space version.

Areas of applications

Flow Cytometry

Fluorescence Microscopy

Display Technology

Cell Screening & Sorting

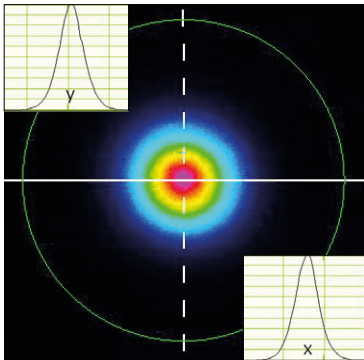
Analytical Instrumentation

Projection

FISBA READYBeam™ SPOT Family

Technical specifications

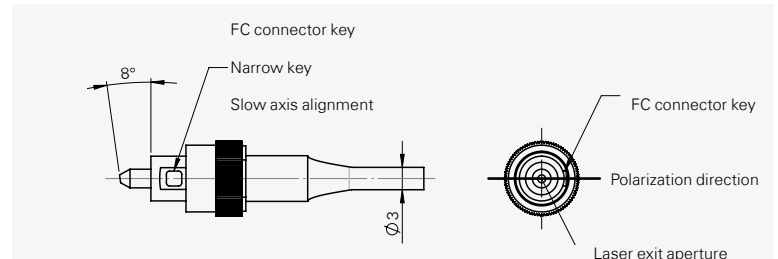
Beam quality



TEM00 single mode fiber beam profile

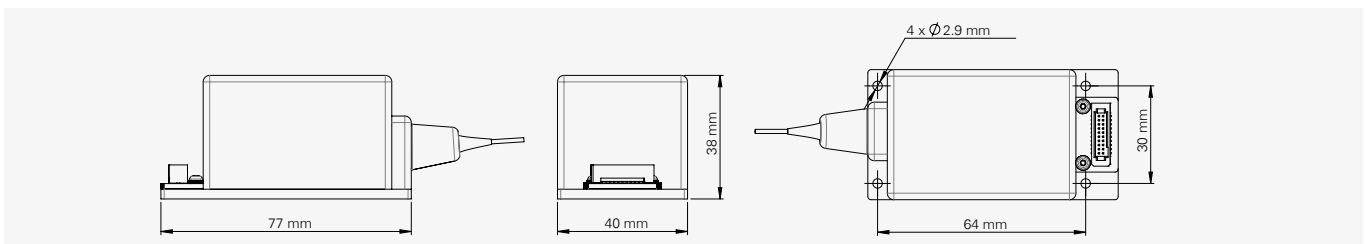
- Minimum dispersion
- Minimum attenuation
- Control about the polarization state
- Gaussian spot and illumination distribution

APC connector



Typical 10 dB improvement in return loss

Technical drawing



FISBA READYBeam™ SPOT Family

Technical specifications

	Wavelength ¹⁾			
	405 nm	450 nm	520 nm	638 nm
FISBA READY Beam™ VIOLET SPOT	x			
FISBA READY Beam™ BLUE SPOT		x		
FISBA READY Beam™ GREEN SPOT			x	
FISBA READY Beam™ RED SPOT				x
Output power calibrated values ²⁾	40 mW	40 mW	30 mW	40 mW
Power stability 8 h	< 2%			
Fiber type	SM/PM, 3 µm core, end capped, APC Connector			
Fiber cable length	1 m			
Polarisation ratio ³⁾	typ. 17 dB			
Spatial mode	TEM 00			
M2	< 1.1			
Optical noise RMS, 20Hz – 20MHz	typ. 0.2, max. 0.5 %			
Laser operation modes	CW, modulated			
Digital modulation	TTL input			
Digital modulation frequencies	1 MHz			
Digital rise time 10 – 90%	11 ns			
Digital fall time 90 – 10%	11 ns			
Analog modulation bandwidth	0 – 3.3 V input voltage			
Analog modulation frequencies	20 KHz			
Analog rise time 10 – 90%	12 µsec			
Analog fall time 90 – 10%	12 µsec			
Laser safety class	3B			
Max. storage temperature range	- 10° C to + 60° C			
Operational temperature range	+ 15° C to + 40° C			
Power consumption	typ. 5 W, max. 12 W			
Temperature stabilization	internal TEC controlled			
Communication interface	RS 485			

¹⁾ Laser center wavelength tolerances: **405**: 400 – 410nm ; **450**: 440 – 460nm; **520**: 515 – 530nm; **638**: 632 – 643nm

²⁾ linear calibrated power range from 10% to 100% (max)

³⁾ min. 13dB, max. 26 dB

FISBA READYBeam™ SPOT Family



Contact now for any questions and requests

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Explore more

fisba.com/readybeam

