

FISBA READYFlow Stable, Uniform, Reliable

Simplified Laser Alignment in Flow Cytometers

Your Benefits

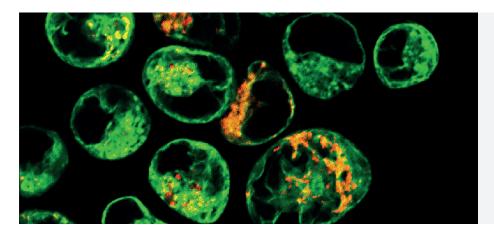
- Reduction of complexity: Turnkey solution facilitates alignment, integration, and operation of the laser.
- Stability and uniformity: Consistent excitation across the interrogation area, boosting accuracy and repeatability.
- Easy to use: Simple "one-box" adjustment in front of the flow cell. One compact box for all wavelengths.
- Easy to maintain: No realignment necessary after initial installation.
- Swiss quality and reliability: The module is entirely manufactered under one roof in Switzerland. FISBA covers the complete value chain of laser module assembly and quality control in-house.

Key Features

- Multi micro Top-Hat projection in one box
- Up to 6 wavelengths and multiple combinations possible
- Stable Top-Hat in stacked arrangement
- Line dimension from 5 x 90 μm² to 10 x 180 μm²
- Minimum working distance 25 mm
- Minimal adjustment; line stacking customizable
- Ideally paired with FISBAReadySpot laser modules







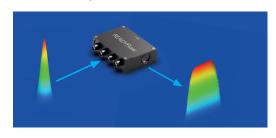
Flow Cytometry

Proper illumination of the cells inside the flow chamber is a challenging task. Laser parameters must meet stringent specifications to produce clean, rel signals for data analysis.

FISBA READYFlow

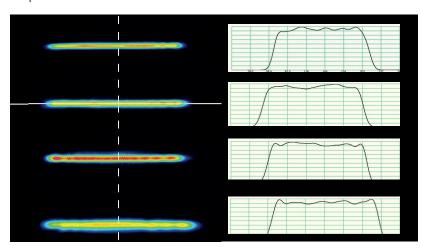
Technical Specifications

Core component: FISBA Beam Shaping Lens



Conversion of the normal Gaussian laser beam from the fiber into a Top-Hat beam. The optical system projects the Top-Hat micro line onto the image plane.

Top-Hat Beam Illumination



Working distance [nm]	Line width 1/e2 [um]	Line width 1/e2 [um]	Stacking distance
25	4 – 7	90	Costumer specific
36	7 – 11	130	Costumer specific
50	9 – 15	180	Costumer specific

Prototype READYFlow1:

- 4 wavelength 405/488/520/638nm
- Stacking 75um
- Line width:
 - 405: 7.5um
 - 488: 8.9um - 520: 9.3um
 - 520. 5.5um
 - 638: 12.8um
- Line length 160um
- Working distance 40mm
- Iradirradiance variation along the line 3-5 % (CV)

Prototype READYFlow1 delivers stable, narrow laser lines with minimal irradiance variation, enabling consistent excitation across wavelengths—ideal for precise, reproducible flow cytometry measurements at 40 mm distance.

Technical Drawing

