Flexible worry-free industrial design

375 - 1064 nm

High-Performance

Single Mode Diode Laser

The electronic features FINE and SKILL permit adjusting the laser performance for the specific application – be it noise reduction, stability against optical feedback, speckle reduction, or spectral broadening.

NEW: More wavelengths and significant power upgrades available.

www.toptica.com/smart
Pigtailed iBeam smart (PT)
TOPTICA’s also provides the pigtailed iBeam smart PT. Long-term power stability and reliability is achieved by the proprietary fiber coupling technology COOL\textsuperscript{DC} (Constant Optical Output Level – Dura-Calibrated) and unique long-life fibers.

Wavelength-Stabilized iBeam smart (WS)
Using wavelength stabilized laser diodes within the iBeam smart WS, single-frequency operation is added to the series. Linewidths in the 10 MHz range and coherence lengths of several meters are achieved.

**iBeam smart Pulse Option**
This option enables the user to apply asynchronous, digital modulation signals to the iBeam smart. With optical rise and fall times in the 1 ns range, bandwidths up to 250 MHz can be achieved.

**Wavelength Selection**
TOPTICA offers wavelength selection better than ±1 nm inside the available standard wavelength range.

**Clean-Up Filter**
Laser clean-up filters provide high transmission (> 90 %) of designated wavelengths and eliminate unwanted spontaneous emission when spectral purity is critical.

**SmartDock**
Highly efficient (typical > 75 %) fiber-coupling is possible with this add-on fiber-coupler for the iBeam smart.

**FiberOut**
This fiber output collimator with adjustable collimation guarantees excellent beam quality after the fiber.

**Optical Isolator**
The iBeam smart can be equipped with an external optical isolator. This option is strongly recommended for the iBeam smart WS in order to guarantee stable single-frequency operation.

**External Control Box**
The CDRH compliant external controller helps scientific customers to easily integrate the laser into their setup. It provides the user with a key switch and access to all important control lines.

**Power supply**
Input: 100-240VAC, Output: 12VDC/5A

**Breadboard adapter**
Allows mounting of iBeam smart onto an optical breadboard. Beam height will be 40 mm with this adapter.