

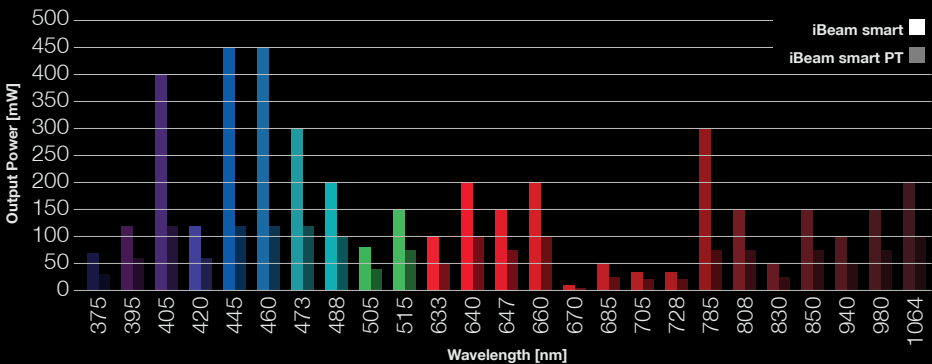
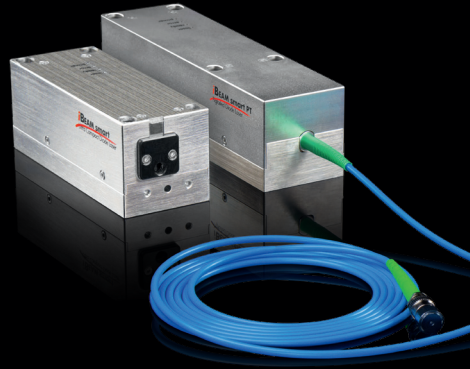
# smart.

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.**

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# iBeam smart

## Options & Accessories



For laser classifications and further safety information concerning the mentioned laser products please refer to our product catalogs and our website.

### 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<sup>DC</sup> (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  $\pm 1$  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.

	iBeam smart	PT	WS
iBeam smart Pulse Option	✓	✓	(✓)
Wavelength Selection	✓	✓	(✓)
Clean-Up Filter	✓		
SmartDock	✓		✓
FiberOut	✓	✓	✓
Optical Isolator	✓		✓
External Control Box	✓	✓	✓
Power supply	✓	✓	✓
Breadboard adapter	✓	✓	✓