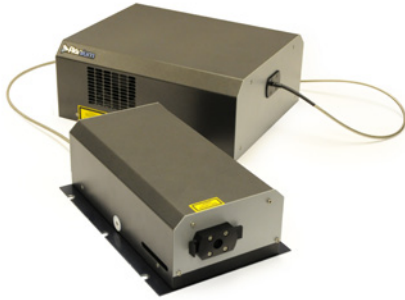


FemtoPower **FP1060-fs** & **FP532-fs**

High-power femtosecond fiber lasers

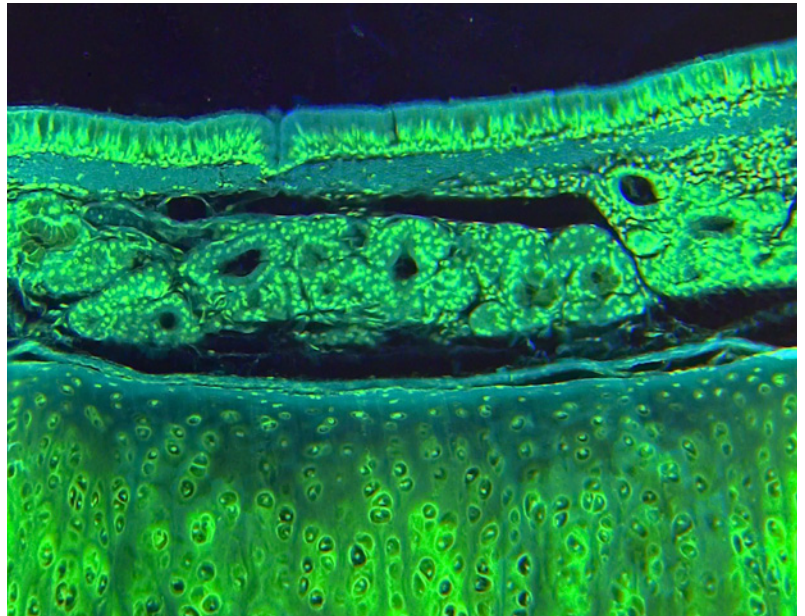


Key Features

- Up to 5W average output power
- 1064nm or 532nm
- Femtosecond pulse-widths
- High-stability, low noise
- Small foot-print
- Maintenance-free

Applications

- Non-linear spectroscopy
- Multi-photon imaging
- Tissue Ablation
- Harmonic generation
- Fundamental study



High power femtosecond fiber lasers

The **FP1060-fs** series is a high power ultrafast fiber laser which utilizes efficient pulse compression to provide high quality optical pulses of less than 300fs. The **FP532-fs** version adds fully integrated second harmonic generation.

Designed for the most demanding scientific and industrial applications, the laser delivers high average powers while maintaining exceptional beam quality and femtosecond pulse duration.

Flexible

Laser delivery is from a passively-cooled compact remote head which includes the pulse compressor, beam delivery optics, optical isolation and optional frequency conversion.

Reliable

The lasers utilise an inherently robust all-fiber design allowing for unprecedented levels of reliability from an ultrafast laser. In addition, the systems are easy to use, maintenance-free, air-cooled and require no alignment.

Standard Specifications

Model	1064nm High-power Femtosecond Laser		532nm High-power Femtosecond Laser
	FP1060-5-fs	FP1060-1-fs	FP532-1-fs
Central Wavelength	1064nm	1064nm	532nm
Average Power	>5W	>1W	>1W
Pulse Width	<300fs	<300fs	<300fs
Repetition Rate	80MHz	50MHz	50MHz
Bandwidth	<12nm	<10nm	<4nm
Amplitude Noise (RMS)	<±2%	<±2%	<±2%
M-squared	<1.2	<1.2	<1.2
Output Optic	Collimated	Collimated	Collimated
Output Polarization	Air-cooled	Air-cooled	Air-cooled
Power consumption (max)	<250W	<250W	<250W
Dimensions (WxLxH, mm)			
Laser Chassis	300 x 250 x 120	300 x 250 x 120	300 x 250 x 120
Remote Optical Head	180 x 270 x 100	180 x 270 x 100	220 x 360 x 130
Weight	<20kg	<20kg	<25kg

Custom Options:

- Alternative wavelengths: **980nm, 1030nm, 1045nm** & **1053nm** (plus harmonics)
- Custom pulse duration: **<200fs**
- Fixed repetition rates from **20MHz** to **100MHz**
- Variable repetition rates **100kHz** to **20MHz**
- Wider bandwidth



**VISIBLE AND INVISIBLE
LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT**

CAUTION: THIS IS A CLASS 4 LASER PRODUCT AND USE OF CONTROLS AND ADJUSTMENTS OTHER THAN THOSE SPECIFIED IN THE PRODUCT MANUAL MAY RESULT IN HAZARDOUS LASER RADIATION EXPOSURE

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