

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

High-power femtosecond fiber lasers

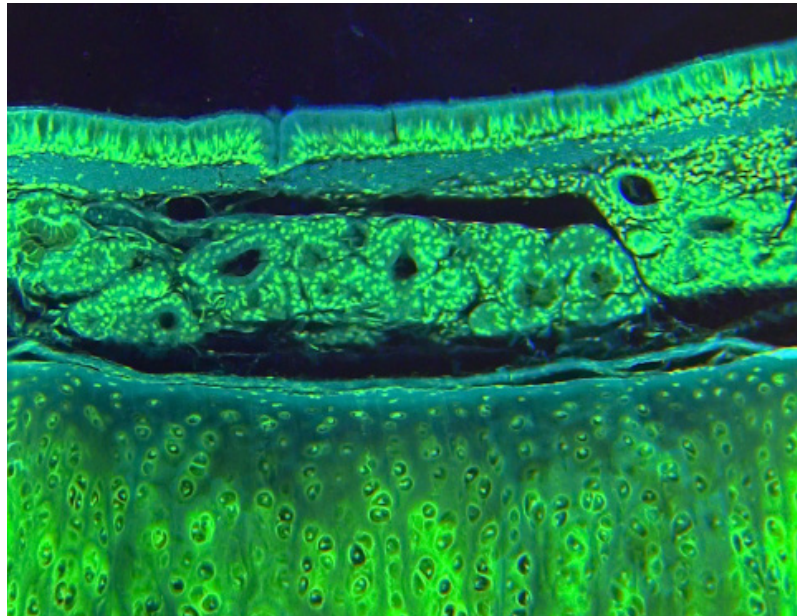


## Key Features

- 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 utilises efficient pulse compression to provide high quality optical pulses of less than 200fs. 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

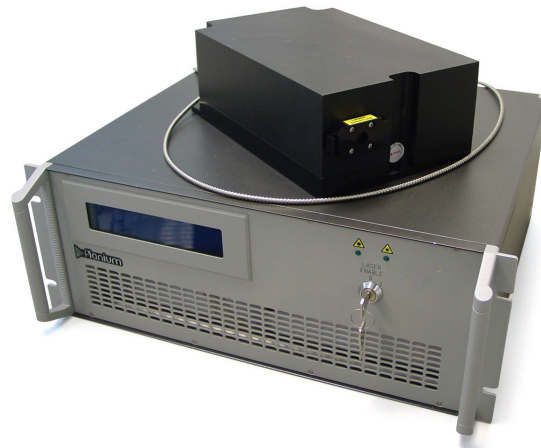
The lasers utilise an inherently robust all-fiber design allowing for unprecedented levels of reliability from an ultrafast laser. In addition, the systems are easy to use, maintenance-free, air-cooled and require no alignment.

## STANDARD SPECIFICATIONS

	1064nm High-power Femtosecond Laser			532nm High-power Femtosecond Laser
Model	FP-1060-5-fs	FP-1060-2-fs	FP-1060-1-fs	FP-532-1-fs
Central Wavelength	1064nm	1064nm	1064nm	532nm
Average Power	>5W	>2W	>1W	>1W
Pulse Width	<200fs	<200fs	<200fs	<200fs
Repetition Rate	80MHz			80MHz
Bandwidth	<25nm			<10nm
Power stability	<2%			<2%
M-squared	<1.3			<1.3
Output Optic	Collimated			Collimated
Output Polarization	Linear			Linear
Power consumption (max)	<250W			<250W
Dimensions (WxLxH, mm)				
Laser Chassis	450 x 390 x 180	300 x 250 x 120	300 x 250 x 120	450 x 390 x 180
Remote Optical Head	180 x 270 x 100	160 x 125 x 75	160 x 125 x 75	220 x 360 x 130
Weight	<20kg	<20kg	<20kg	<25kg

## Custom Options:

- Alternative wavelengths: **1030nm, 1045nm & 1053nm** (plus harmonics)
- Custom pulse duration: **<150fs**
- Fixed repetition rates from **20MHz to 100MHz**
- Variable repetition rates **100kHz to 40MHz**
- Wider bandwidth



FP-1060-5-fs

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