

## G-Mini laser line



Our □ mini□ lasers are Pulse Compression sub-nanosecond and picosecond transform-limited SLM Nd:YLF and Nd:YAG Lasers. The lasers produce TEM<sub>00</sub> near-diffraction limited single-longitudinal mode radiation at a variety of energies, wavelengths and repetition rates. Design features include highly stable electro-optically or passively Q-switched ring-cavity oscillators, pulse compression, amplification, harmonic generation. Fundamental lasing is at either the 1053nm line or at 1319nm. Below are listed the most popular laser configurations. In addition to these models custom □ mini□ lasers are available that cover a large parameter space.

### Options

- E --- Built-in digital energy meter;
- C --- Control of all functions from a PC;

#### Nanosecond Nd:YLF Lasers

G-MINI-A60	Parameter
Output Wavelength:	1053nm, 526.5nm, 351nm
Max Output Energy:	60mJ, 15mJ, 5mJ
Pulse Duration:	20ns
Beam Diameter (1/e <sup>2</sup> ):	<4 mm
Beam Divergence:	Near Diffraction Limit
Linewidth:	SLM
Repetition Rate:	5, 10 and 15 Hz
Spatial profile:	TEM <sub>00</sub>
Laser Head Size:	600 x 150 x 150 mm
Q-switching:	Passive or EO
Flash Tube Lifetime:	10 <sup>7</sup> shots
Advised Operating Temperature:	20 °C
Advised Operating Humidity:	<60% non-condensing
Warranty Period	12 months

#### Sub-Nanosecond Nd:YAG Lasers

G-MINI-B50	Parameter
Output Wavelength:	1064nm, 532nm, 355nm
Max Output Energy:	50mJ, 25mJ, 13mJ
Pulse Duration:	<b>500ps, or 250ps, or 120ps</b> (depends on the model)
Beam Diameter (1/e <sup>2</sup> ):	<6 mm
Beam Divergence:	Near Diffraction Limit

Linewidth:	SLM (Pulse transform Limited)
Repetition Rate:	5 and 10 Hz
Spatial profile:	TEM <sub>00</sub>
Laser Head Size:	600 x 150 x 150 mm
Q-switching:	Passive or EO
Flash Tube Lifetime:	10 <sup>7</sup> shots
Advised Operating Temperature:	20 °C
Advised Operating Humidity:	<60% non-condensing
Warranty Period	12 months

#### Picosecond Nd:YAG Lasers

G-MINI-CX	Parameter
Output Wavelength:	633nm
Max Output Energy:	5 mJ
Pulse Duration:	35ps, or 25ps, or 15ps (depends on the model)
Beam Diameter (1/e <sup>2</sup> ):	<4 mm
Beam Divergence:	Near Diffraction Limit
Linewidth:	SLM (Pulse transform Limited)
Repetition Rate:	5 and 10Hz
Spatial profile:	TEM <sub>00</sub>
Laser Head Size:	600 x 150 x 150 mm
Q-switching:	Passive or EO
Flash Tube Lifetime:	10 <sup>7</sup> shots
Advised Operating Temperature:	20 °C
Advised Operating Humidity:	<60% non-condensing
Warranty Period	12 months