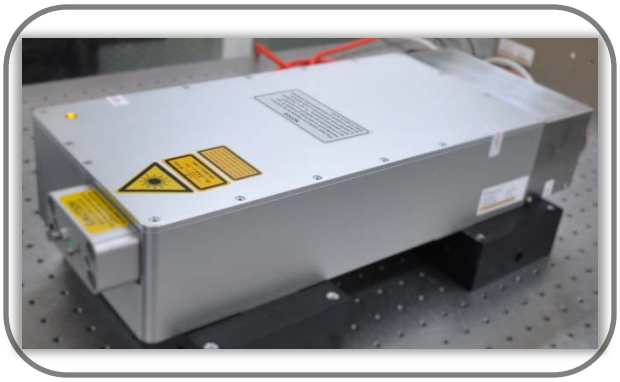
HIGH ENERGY RELIABLE PICOSECOND LASER

Ultrafast Pica™



Features

- High Peak power, high pulse energy and ultrafast pulse (10ps) for minimized thermal damage
- Advanced optical packaging and optimized design for rugged, most reliable picosecond laser in the market
- Long lifetime ensures lowest cost of ownership and high uptime
- High efficiency with stable power and most compact ultrafast laser
- Advanced and precise controlling design with burst mode control
- Excellent beam quality (M2<1.3) and reliability
- Available in IR, Green and UV

Applications

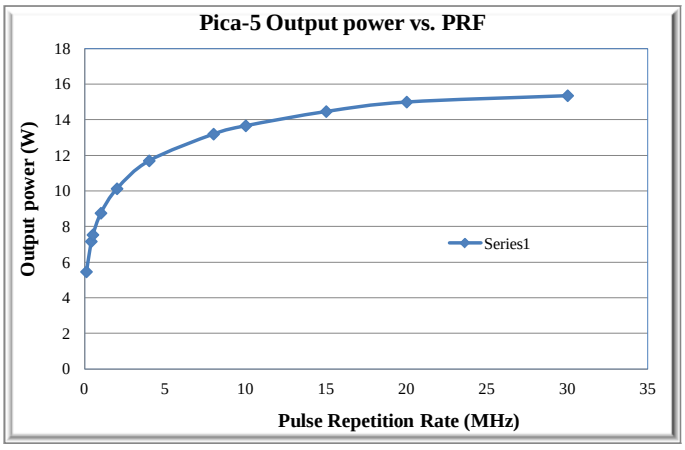
- High-speed and precision micro-machining
- LED laser scribing and lift-off
- Precision laser marking
- Thin-film ablation
- Brittle material cutting, drilling and dicing

Overview

The Enlight Ultrafast Pica lasers provides a cutting-edge and reliable light source for demanding applications where micro beam spot, precise and quality material processing, and high throughput are critical.

Pica lasers are deliberately designed to provide excellent performance and high reliability. With high peak power and high pulse energy, Pica lasers enable minimal thermal damage for best quality material processing and the highest possible throughput.

Incorporating Enlight's reliable and cutting-edge ultrafast fiber laser and DPSS laser technologies along with precise and advanced optical packaging design, Pica lasers are characterized by excellent TEM_{00} beam quality, stable power and long lifetime. They are built for 24/7 industrial applications for lowest ownership cost and highest uptime.



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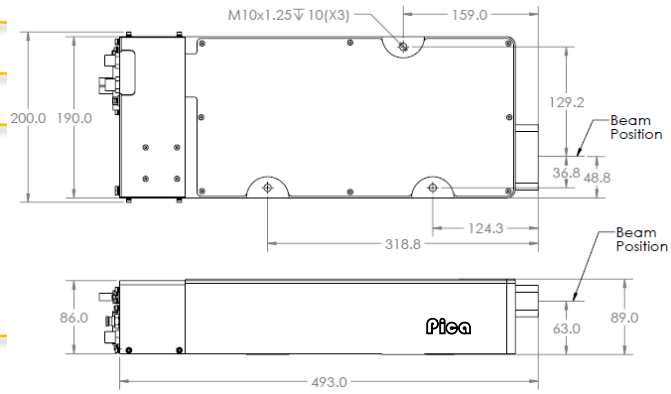
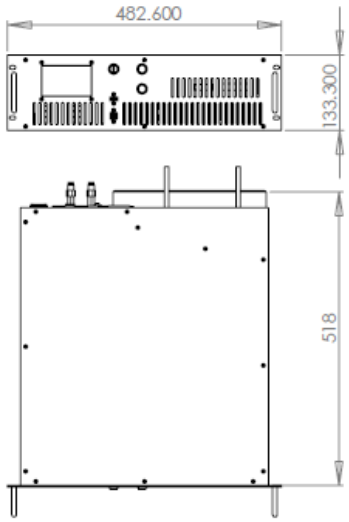
Specifications

Characteristics	Pica-5	Pica-30
Wavelength	1064nm/532nm/355nm	
Repetition Rate	Single -30 MHz	Single-30MHz
Output Power	5W IR@100KHz 3.5W Gren@100KHz 1W UV @100KHz 7W IR@1MHz 4.5W Gren@400KHz 2W UV @400KHz	20W IR@100KHz 15W GRN@100KHz 6W UV@100KHz 30W IR@1MHz 15W GRN@400KHz 6W UV @400KHz
Pulse Width	10ps (+/-2.2ps)	
Spatial Mode	TEM_{00}	
M^2	<1.3	
Polarization	Linear	Linear
PER	>100:1	>100:1
Beam Roundness	>90%	
Warm-up Time (from cold start)	<30 min	
Operating Temp. Range	18 to 35°C	
Operating Humidity	5-80%, non-condensing	
Non-operating Temp. Range	0-50°C	
Non-operating Humidity	8-95%, non-condensing	

Laser Head Dimensions



Power Supply Dimensions



Dimensions are in mm

Enlight Tech

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