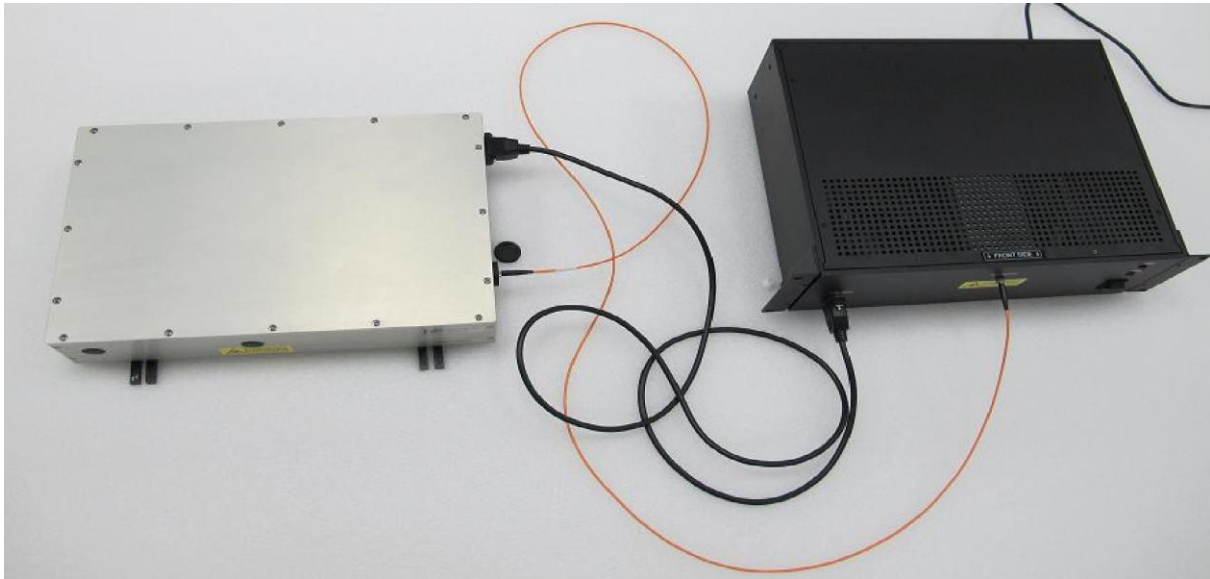


COMPILER 1064/532/355/266/213

Family of Solid-State Picosecond Lasers



Lasers from the Compiler family operating at wavelengths 1064 nm, 532 nm, 355 nm, 266 nm, 213 nm are affordable, high peak power, rugged picosecond sources. The short pulse length and the high peak power make the Compiler models a very suitable tool for micromachining, remote sensing and other applications.

Features

- Highest peak power in UV band
- Shorter output pulse width (8 ps at 1064nm)
- TEM₀₀ beam quality
- Air cooling

Applications

- Micromachining, including LCD processing
- Laser Ablation, fragmentation and destruction, photolithography
- Remote sensing
- Medical application
- Photo Ionization, LIBS
- Single and double photon Laser Induced Fluorescence (LIF), Time resolved spectroscopy, Raman spectroscopy

Specifications					
<i>Wavelengths (nm)</i>	1064	532	355	266	213
<i>Maximal energy output (μJ/pulse)</i>	550	350	180	140	70
<i>Pulse width</i>	8 ps	7 ps	6 ps	5 ps	4 ps
<i>Repetition Rate</i>	400 Hz maximum, external triggering.				
<i>Pulse-to-pulse stability</i>	Less than 4-6 % at selected wavelengths				
<i>Q-switch</i>	Passive				
<i>Divergence</i>	Diffraction limited				
<i>Beam profile</i>	Gaussian				
<i>Output Beam pointing stability (std dev, 1 h)</i>	0.3 Diffraction Limit				
<i>Linewidth</i>	2.7 cm ⁻¹ (Fourier limited)				
<i>External control</i>	Connector/pin for TTL trigger input or +4 +/-1V, into 1 kΩ				
<i>Internal control</i>	at fixed pulse repetition rate				
<i>Cooling</i>	air				
<i>Electrical power</i>	~ 100-240 VAC, 47-63 Hz, single phase				
<i>Power consumption</i>	< 100W				
<i>Warm Up time</i>	< 2 minutes				
<i>Laser Head dimensions</i>	261 x 438 x 71 mm ³				
<i>Operating temperature and humidity</i>	20-27° C; 10-80 %				
<i>Compliance</i>	CDRH, CE				

Content and Delivery

The delivered laser consists of the following:

- Laser Head
- Power Module
- Power Cable
- 2-m fiber for pumping delivery
- CD with Manual and Control Application
- Test Record

Warranty

1 year for all parts and labor excluding the laser pump diode. The pump diode is warranted for the lesser of 1 year or 10⁹ pulses.

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