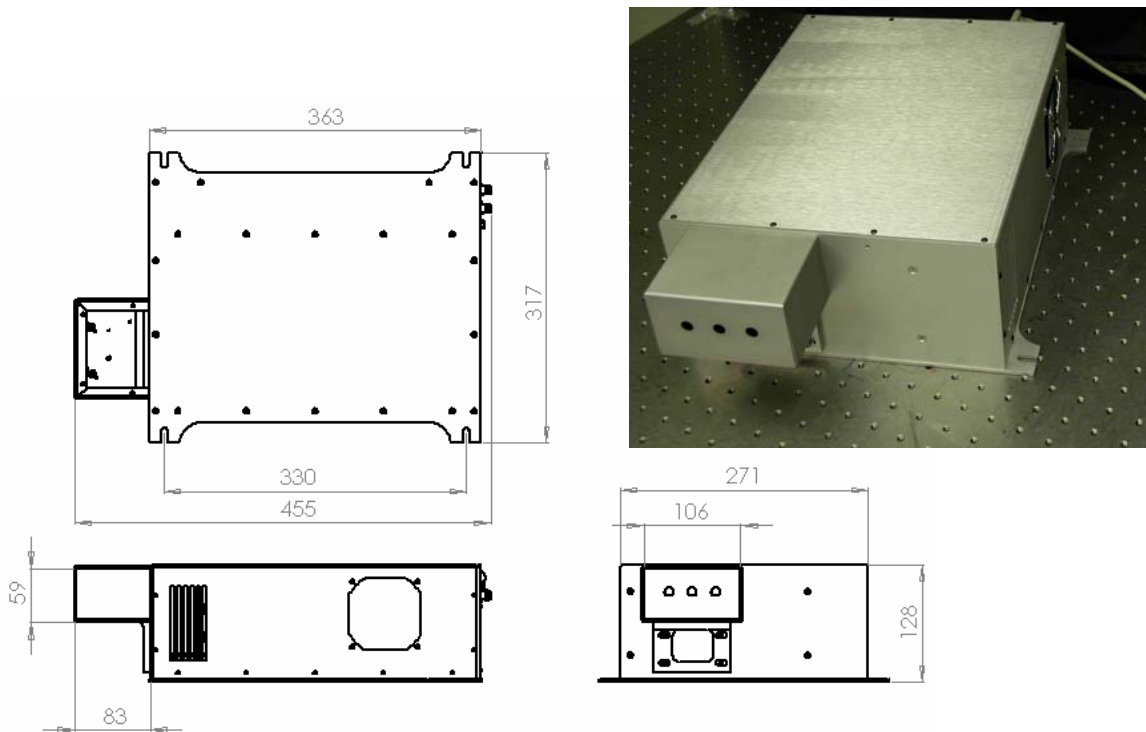


COMPILER 1064/532/355, COMPILER 1064/532/266, and COMPILER 1064/532/266/213

Unmatched Peak Power/Price

All Solid-State IR/Visible/UV turnkey Picosecond Lasers



The Compiler 1064/532/266, Compiler 1064/532/355, and Compiler 1064/532/266/213 are affordable, high peak power, rugged, turnkey, picosecond lasers with output at 3 or 4 wavelengths: 1064 nm, 532 nm, 266 nm, and 213 nm. The short pulse length and the high peak power make the Compiler family particularly suitable for use in micromachining, Mass Spectrometry and other applications.

Applications

- Single and double photon Laser Induced Fluorescence (LIF), Time resolved spectroscopy
- Photolithography
- Micromachining including LCD processing
- Laser Ablation, fragmentation and destruction
- Photo Ionization, LIBS



Specifications

Specifications	COMPILER 1064/532/355	COMPILER 1064/532/266	COMPILER 1064/532/266/213
<i>Wavelength</i>	1064 nm, 532 nm, 355 nm	1064 nm, 532 nm, 266 nm	1064nm,532nm,266nm,213nm
<i>Repetition Rate</i>	Internal/External triggering, 200 Hz maximum - variable from 1 Hz to the maximum via RS-232 port		
<i>Energy Output (at 100 Hz)</i>	160 μJ/pulse at 355 nm, 80 μJ/pulse at 532 nm, 140 μJ/pulse at 1064 nm	130 μJ/pulse at 266 nm, 90 μJ/pulse at 532 nm, 130 μJ/pulse at 1064 nm	40 μJ/pulse at 213 nm 70 μJ/pulse at 266 nm, 80 μJ/pulse at 532 nm, 120 μJ/pulse at 1064 nm
<i>Pulse-to-pulse stability (at 100 Hz)</i>	7 % of summarized emission at all wavelength		
<i>Pulse counting</i>	available via RS-232 port (up to $4 \cdot 10^9$ pulses)		
<i>Pulse width (at 1064 nm)</i>	8 ps		
<i>Q-switch</i>	Passive		
<i>Divergence</i>	Diffraction limited		
<i>Beam profile</i>	Gaussian		
<i>Beam Diameter at the laser exit (at 50% intensity without fiber)</i>	~ 1.2 mm	~ 2.4 mm	~ 2.2 mm
<i>Output aperture height</i>	104 mm		
<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>Electrical power</i>	~ 100-240 VAC, 47-63 Hz, single phase		
<i>Power consumption</i>	< 45 W		
<i>Warm Up time</i>	< 3 minutes		
<i>Laser Head dimensions</i>	455 x 317 x 128 mm ³		
<i>Weight</i>	8.5 kg		
<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:

- Integrated Laser Head/Power Unit;
- Power Cable;
- CD with Manual and Control Application; and
- Test Record.





Features

- Unmatched peak power per price
- 8 ps and shorter output pulse width
- Near TEM₀₀ beam quality
- External computer control over the repetition rate and output energy via the built-in RS232 port

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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