

# COMPILER

## 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
- TEM00 beam quality
- Shorter output pulse width (8 ps at 1064nm)
- Air cooling

### Applications

- Micromachining including photo-mask repair, LCD and processing photolithography
- Laser Ablation, fragmentation and
- Laser Ablation, fragmentation and destruction of marked cells
- Medical application
- Photo Ionization, LIBS
- Single and double photon Laser Induced Fluorescence (LIF), Time resolved spectroscopy, Raman spectroscopy

Specifications	Compiler
<b>Wavelength</b>	1064 nm, 532 nm, 355 nm, 266 nm, 213nm
<b>Repetition Rate</b>	400 Hz
<b>Energy Output</b>	520 µJ at 1064 nm 300 µJ at 532 nm 150 µJ at 355 nm 110 µJ at 266 nm 50 µJ at 213 nm
<b>Pulse-to-pulse stability</b>	Less than 4-6% at selected wavelengths
<b>Pulse width (at 1064 nm)</b>	8 ps
<b>Q-switch</b>	Passive
<b>Divergence</b>	Close to Diffraction Limit
<b>Beam profile</b>	Gaussian
<b>Output Beam pointing stability (std dev, 1 h)</b>	0.5 Diffraction Limit
<b>Linewidth</b>	Fourier Limited
<b>External control</b>	Connector/pin for TTL trigger input or +4 +/-1V, into 1 kΩ
<b>Electrical power</b>	~ 100-240 VAC, 47-63 Hz, single phase
<b>Power consumption</b>	80 W
<b>Warm Up time</b>	< 5 minutes
<b>Operating temperature and humidity</b>	20-27 C; 10-80 %
<b>Compliance</b>	CDRH, CE

### Content and Delivery

The delivered laser consists of the following:

- Laser Head 1.5-m fiber for pumping delivery
- Power Module
- CD with Manual and Control Application
- Power Cable
- Test Record