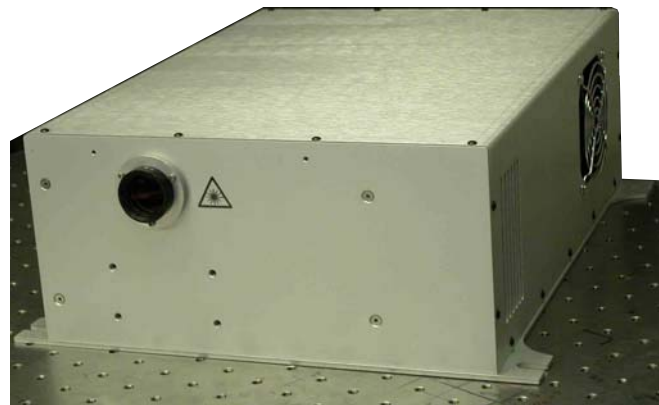
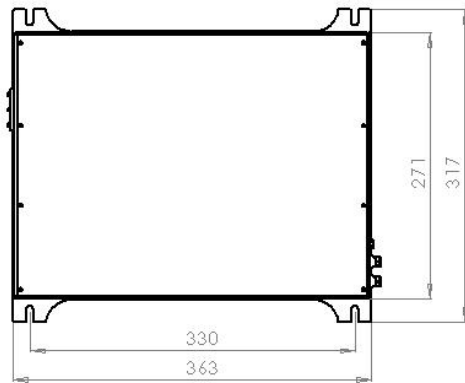
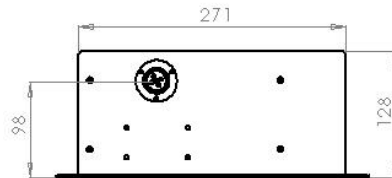
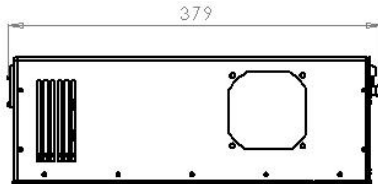


## COMPILER 1064

Unrivalled Peak Power/Price



The Compiler 1064 is an affordable, high peak power, rugged, turnkey, picosecond laser at 1064 nm. The short pulse length and the high peak power make the Compiler 1064 particularly suitable for use in Mass Spectrometry and other bio-photonics applications.

### Features

- Unrivalled peak power per price
- 8 ps output pulse width
- 60 MW peak pulse power
- Near TEM<sub>00</sub> beam quality
- External computer control over the repetition rate and output energy via the built-in RS232 port

### Applications

- Laser Ablation, LA/ICP-MS
- Laser tunnel (collisionless) ionization including air ionization.
- Laser Induced Breakdown Spectroscopy (LIBS), no necessity in time gating.
- Micromachining (ceramics, refractory, metals, etc.)
- Medical applications
- Precise ranging, tracking, and 3D imaging





## Content and Delivery

The delivered laser consists of the following:

- Integrated Laser Head/Power Unit;
- Power Cable;
- 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  $10^9$  pulses.

## Specifications

<i>Parameter</i>	<i>Compiler 1064</i>
Wavelength	1064 nm
Repetition Rate	200 Hz (optional – 3 kHz)
Energy Output	0.5 mJ at 1064 nm
Pulse-to-Pulse Stability	< 5 %
Mode Structure	Close to TEM <sub>00</sub>
Pulse Duration	8 ps
Q-Switch	Passive
External Control	Connector/pin for TTL trigger input
Electrical Service	100-240 VAC, 47-63 Hz, Single Phase
Power Consumption	< 40 W
Laser Unit Dimensions	379 x 317 x 128 mm <sup>3</sup> 14.9 x 12.5 x 5 in <sup>3</sup>
Pulse Counter	Accessible via RS-232 port (up to $4 \cdot 10^9$ pulses)
Operating Temperature and Humidity	10-28° C; 10-80 %

Passat, based in Linthicum, MD, and Toronto, Canada, has been manufacturing rugged, compact pulsed Nd:YAG lasers for bio-photonics and lidar since 1995.

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