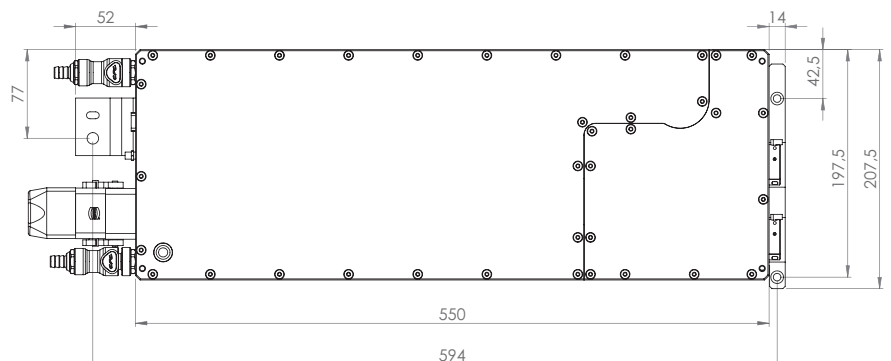
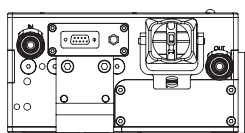
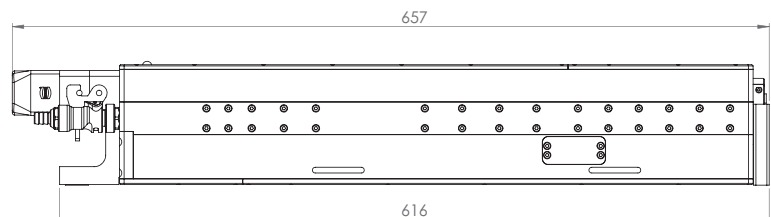
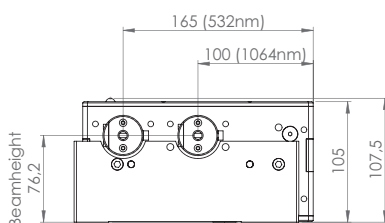


PLECTER

Quasi-CW Industrial Picosecond Laser (80 MHz)

- Compact, long life 80 MHz oscillator
- Custom configurations to choose from:
 - 10W @ 1064nm
 - 5W @ 532nm
- Very high beam quality $M^2 < 1.2$
- Excellent pulse and beam pointing stability
- Actively stabilized SHG output power
- Field replaceable pump diodes in laser head
- Compact form factor
- Ideally suited for applications in non-linear optics and Raman spectroscopy



The PLECTER industrial picosecond laser is a 80 MHz quasi-CW laser offering a high level of power and beam pointing stability. The laser offers more than 14W of TEM00 power at 1064nm or 7W at 532nm; partial conversion to SHG can be specified.

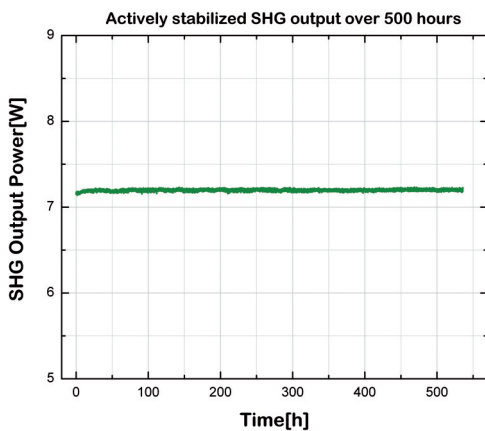
The PLECTER has excellent beam pointing stability, waist location stability, and waist size stability. These

features make the PLECTER a cost effective platform for various industrial applications in medical equipment, measurement devices and display technology.

Long lifetime and low maintenance requirements in combination with LUMERA LASER's service network in Asia, Europe and North America guarantee reliable 24/7 operation in any industrial application around the world.

PLECTER

Typical Data



Laser Specification

	PLECTER 1064	PLECTER 532
Max. average power	10 W	5 W
Wavelength	1064 nm	532 nm
Reprate	80 MHz	
Spatial Mode	TEM00 ($M^2 < 1.2$)	
Pulse Duration	< 8 ps	< 7 ps
Pulse-to-pulse Energy Stability	< 0.5 % rms	< 1 % rms
Average Power Stability over 8 h	< 0.5 % rms	< 1 % rms
Polarization Ration	>> 100:1	
Beam Divergence, Full Angle	< 2 mrad	
Beam Circularity	> 85%	
Beam-pointing Stability	< 50 μ rad/ $^{\circ}$ C	
Beam diameter (at bezel)	1.5 \pm 0.2 mm	1.2 \pm 0.2 mm
Bore-sight accuracy	\pm 0.5 mm and < 5 mrad	
Umbilical Length	3.5 m	
Electric supply, 19" Rack	10-230 VAC / 50-60 Hz / 400 W	
Warm-up Time	20 min; 45 min from cold start	



LUMERA LASER follows a policy of continuous product improvement. All specifications are subject to change without notice and can be optimized in specific configurations. Please ask for your special requirement and the services of our application lab.