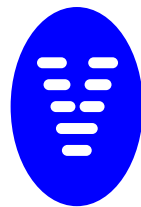


# Technical Data Sheet



## ventus<sup>LP</sup>

532nm CW low power scientific laser

50 - 500 mW

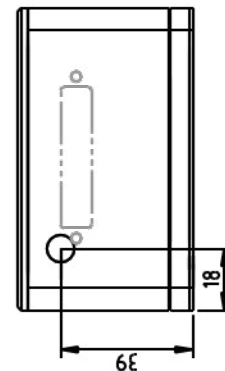
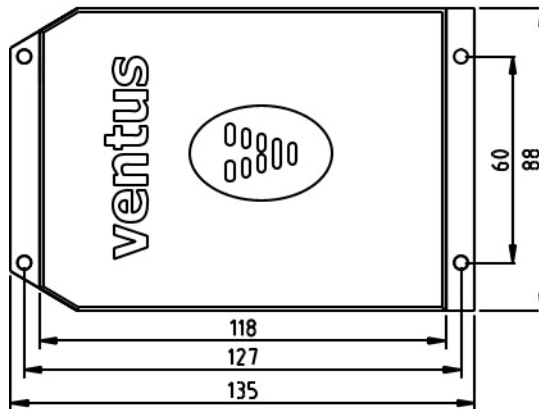
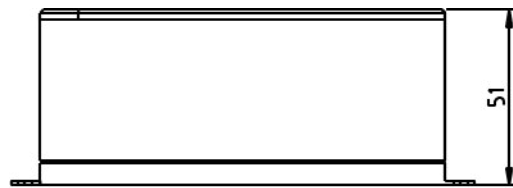
The ventus 532 LP laser is a high specification single transverse mode CW green laser, providing variable power up to 500 mW. A unique and innovative laser cavity design has resulted in a highly stable and near diffraction limited beam. Contained within a compact package, this extremely efficient system is suited to both laboratory and OEM applications.

Specifications		Features
power	50 to 500 mW	compact design
wavelength	532 nm	diffraction limited beam
beam size	1.0 mm	zero stress,
spatial mode	TEM <sub>00</sub>	permanently aligned cavity
bandwidth	30 GHz	hermetically sealed
divergence	0.8 mrad	scientific power supply,
M-squared	< 1.1	OEM option
power stability	< 2.0 % rms*	extended warranty available
RMS noise	2.0 %	single phase mains driven
noise bandwidth	1 Hz to 6 MHz	diode 18,000 hours MTBF
coherence length	1 cm	direct modulation upto 30 kHz
polarisation ratio	100:1	RS232
polarisation direction	horizontal	
beam angle	1 mrad**	
operating temperature	10 - 40 deg C	
head weight	0.9 kg	
umbilical length	1.5 m	
warm-up time	10 min	

\* test duration 8 hrs

\*\* tolerance relative to head orientation

# Technical Data Sheet

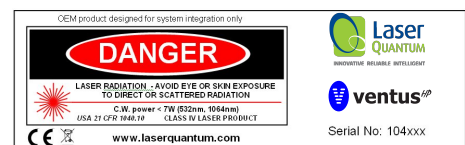


## Typical Applications

raman spectroscopy  
optical tweezers  
fluorescence

## PSU options

mpc6000  
smd6000



Allow 100mm clearance at rear for bend radius of umbilical.  
Drawings not to scale.

Laser Quantum has a policy of continuous improvement, therefore specifications are subject to change without notice.

Laser Quantum's scientific and industrial lasers are certified to comply with:  
IEC 60825 and Federal regulations (21 CFR - subchapter J) as administered by CDRH on shipments ordered after August 2 1976.

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