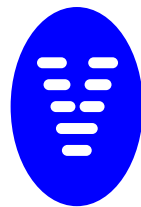


# Technical Data Sheet



## ventus<sup>IR</sup>

1064nm enhanced linear cavity laser

1.5 - 3 W

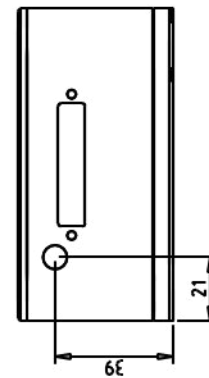
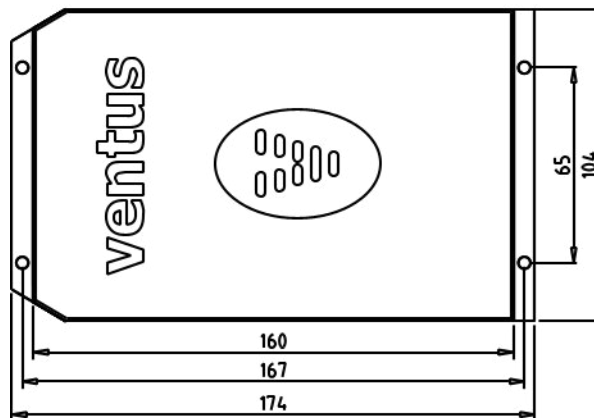
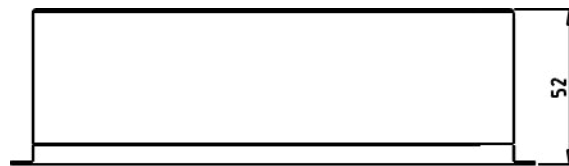
The ventus 1064 laser is a high specification single transverse mode CW infrared laser, providing variable power up to 3 W. It has a highly stable and low-noise beam and is supplied with the advanced mpc6000 power supply.

Specifications		Features
power	1.5, 3 W	zero stress cavity
wavelength	1064 nm	direct modulation up to 30 kHz
beam size	3.2 mm	scientific power supply
spatial mode	TEM <sub>00</sub>	hermetically sealed
bandwidth	80 GHz	extended warranty available
divergence	0.6 mrad	diode 18,000 hrs MTBF
M-squared	1.5	single-phase mains driven
power stability	< 1.0 % rms*	full RS232 control
RMS noise	< 0.5 %	
noise bandwidth	1 Hz to 100 MHz	
coherence length	4 mm	
polarisation ratio	100:1	
polarisation direction	vertical	
beam angle	1 mrad**	
operating temperature	10 - 40 deg C	
head weight	1.3 kg	
umbilical length	1.5 m	
warm-up time	10 min	

\* test duration 8 hrs

\*\* tolerance relative to head orientation

# Technical Data Sheet

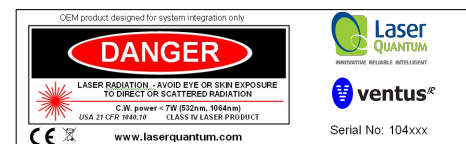


## Typical Applications

non-destructive testing  
optical tweezers  
fluorescence

## PSU options

mpc6000 (standard)  
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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