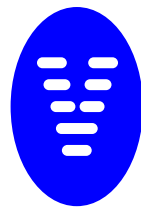


Technical Data Sheet



ventus¹⁰⁰⁰⁺

YLF enhanced linear cavity design

250, 750 mW

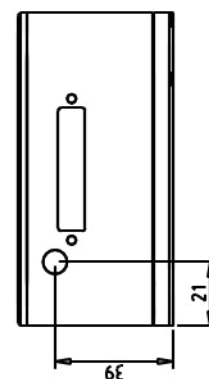
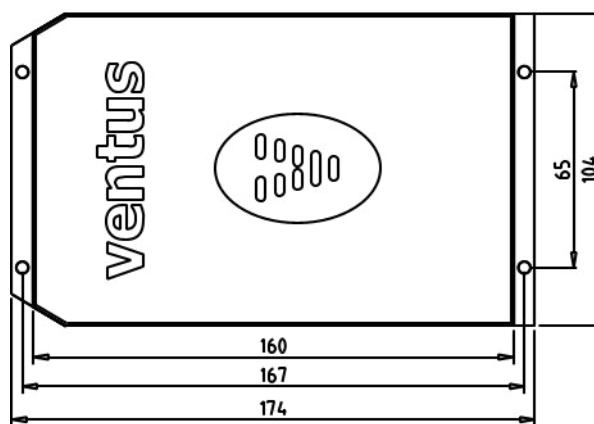
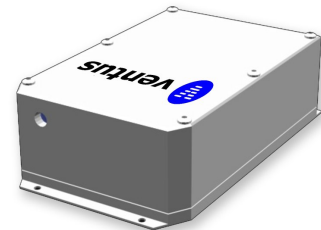
The ventus 1000+ is a YLF based infrared laser, providing a choice of two non-1064 wavelengths, with all the technological benefits of the ventus platform. Meticulous laser cavity design has resulted in a low noise and near diffraction limited beam contained within a compact package.

Specifications		Features
power	250, 750 mW	diffraction limited beam
wavelength	1047 or 1053 nm	zero stress,
beam size	3.2 mm	permanently aligned cavity
spatial mode	TEM ₀₀	hermetically sealed
bandwidth	40 GHz	scientific power supply,
divergence	0.6 mrad	OEM option
M-squared	1.5	extended warranty available
power stability	< 1.0 % rms*	single phase mains driven
RMS noise	< 0.5 %	diode 18,000 hours MTBF
noise bandwidth	1 Hz to 100 MHz	direct modulation upto 30 kHz
coherence length	8 mm	RS232
polarisation ratio	100:1	
polarisation direction	horizontal	
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

optical inspection
confocal microscopy
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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