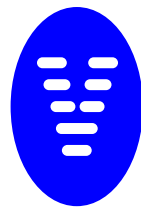


Technical Data Sheet



ventus¹⁰⁰⁰⁺

YLF enhanced linear cavity design

250, 750 mW

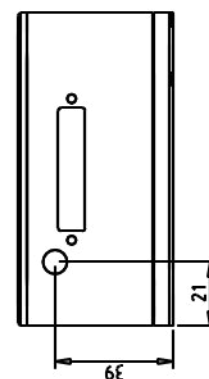
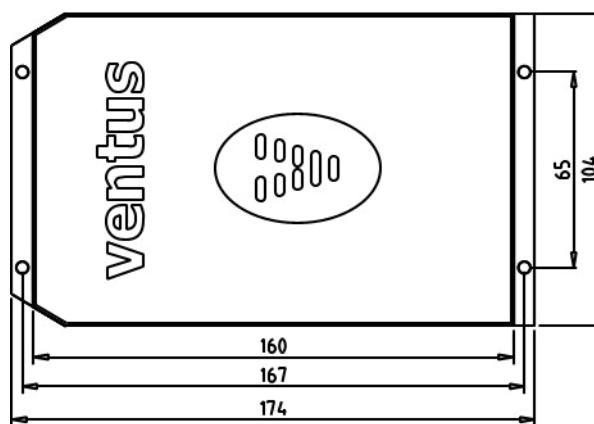
The ventus 1000+ is a YLF based infrared laser, providing a choice of two non-1064 wavelengths, with all the technological benefits of the ventus platform. Meticulous laser cavity design has resulted in a low noise and near diffraction limited beam contained within a compact package.

| 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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