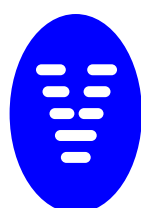


Technical Data Sheet



ventus⁵²⁰⁺

YLF enhanced linear cavity design

100 - 700 mW

The ventus 520+ is a YLF based laser, providing a choice of two non-532nm green 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. Suited to alignment applications requiring wavelength differential.

Specifications

power	100 to 700 mW
wavelength	523 or 527 nm
beam size	1.4 mm
spatial mode	TEM ₀₀
bandwidth	30 GHz
divergence	0.6 mrad
M-squared	< 2.0
power stability	< 3.0% rms*
RMS noise	< 3.0% / < 2.0 rms
noise bandwidth	1 Hz to 6 MHz / 1 Hz to 200 hz
coherence length	1 cm
polarisation ratio	100:1
polarisation direction	horizontal
beam angle	1 mrad**
operating temperature	20 - 35 deg C
head weight	1.3 kg
umbilical length	1.5 m
warm-up time	10 min

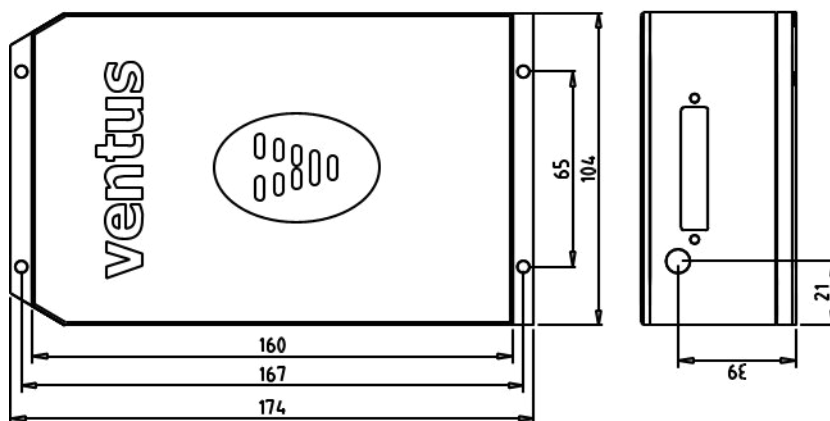
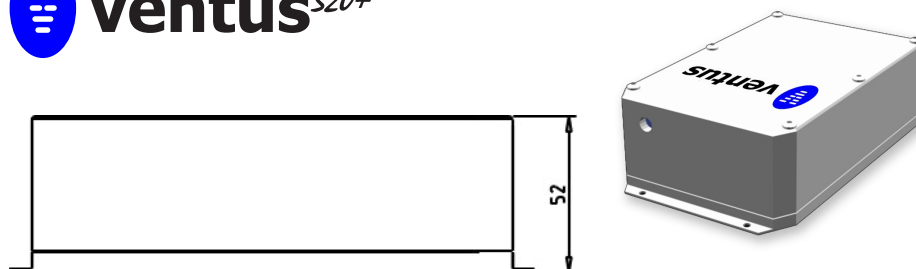
* test duration 8 hrs

** tolerance relative to head orientation

Features

2 wave lengths available
diffraction limited beam
zero stress,
permanently aligned cavity
hermetically sealed
scientific power supply,
OEM option
extended warranty available
single phase mains driven
diode 18,000 hours MTBF
direct modulation upto 30 kHz
RS232

Technical Data Sheet



Typical Applications

nd:glass alignment
confocal microscopy
fluorescence microscopy

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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