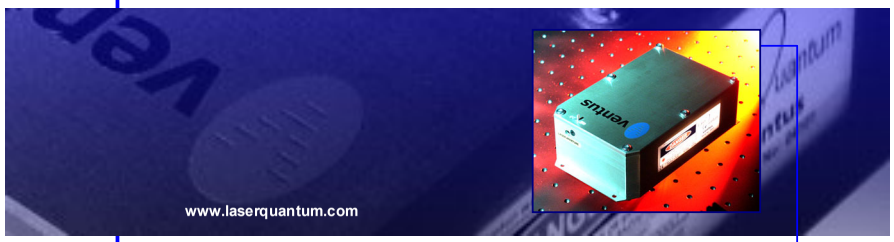
ventus

520 series – YLF Enhanced linear cavity design

up to 700mW

The **ventus 520 series** lasers are high specification single transverse mode CW green laser using YLF crystals to generate 523 or 527 nm. Meticulous laser cavity design has resulted in a low noise and near diffraction limited beam. This extremely efficient system is suited to alignment applications requiring wavelength differential.



Laser Quantum

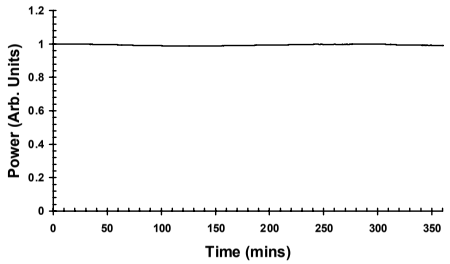
Laser Specifications	523 nm	527 nm
Power	100 to 700 mW	100 to 700 mW
Wavelength	523 nm	527 nm
Beam size	1.5 mm	1.5 mm
Transverse mode	TEMoo	TEMoo
Bandwidth	< 30 GHz	< 30 GHz
Divergence	< 1.3 mrad	< 1.3 mrad
M^2	1.2	1.2
Pointing stability	< 5 urad	< 5 urad
Power stability (rms)	< 2 %	< 2 %
Noise (1 Hz – 100 kHz)	< 3 %	< 3 %
Polarisation ratio	> 100:1	> 100:1
Polarisation direction	Horizontal	Horizontal

Applications

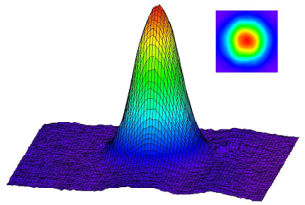
- Alignment
- Light scattering
- Particle sizing
- Flow cytometry
- Non-destructive testing

Features

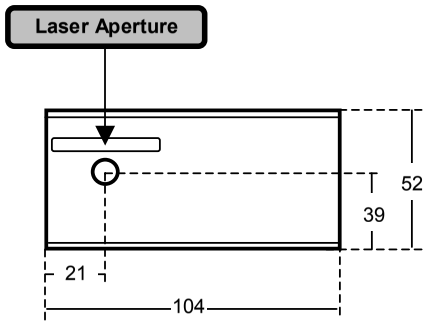
- High brightness
- Microprocessor control
- Hermetically sealed
- Near diffraction limited
- Compact



A TYPICAL <1% STABILITY GRAPH



SPATIAL PROFILE: TEM_{00}



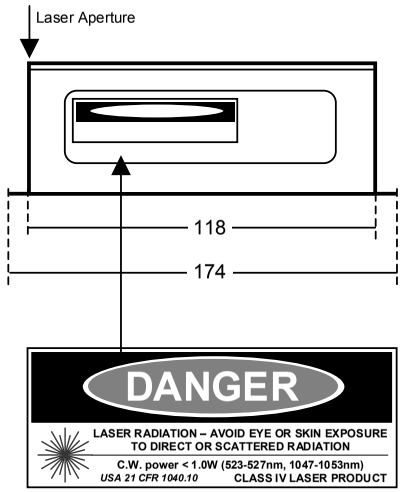
DIMENSIONS

Laser Head (mm)	
Base footprint (L x W)	174 x 104
Height	52
Beam height	39
Mounting Holes (mm)	
Diameter	4
Separation (side to side)*	65
Separation (front to back)*	167

*measurements from hole centres

WEIGHT

Laser Head (Kg)	1.3



PSU options

idu 6000
mpc 6000

Laser Quantum's scientific & industrial lasers are certified to comply with:

IEC 60825

and

Federal Regulations (21 CFR -Subchapter J) as administered by Center for Devices & Radiological Health on all systems ordered for shipment after August 2, 1976

Laser Quantum follows a policy of continuous product improvement. Specifications are subject to change without notice.

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