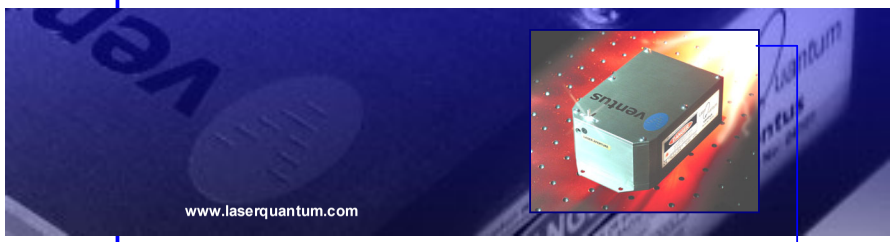
ventus

532 – Enhanced linear cavity design

up to 1.5W

The **ventus 532** laser is a high specification single transverse mode CW green laser, providing variable power up to 1.5 W. A unique and innovative laser cavity design has resulted in a highly stable and near diffraction limited beam. Contained within a compact package, this extremely efficient system is suited to both laboratory and OEM applications.



Laser Quantum

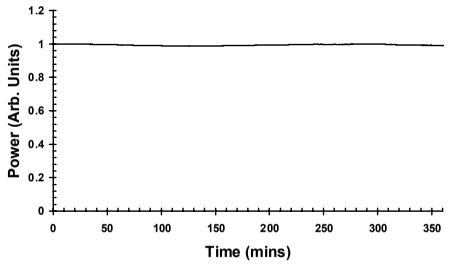
Laser Specifications	
Power	50 mW to 1.5 W
Wavelength	532 nm
Beam size	1.5 mm
Transverse mode	TEMoo
Bandwidth	< 30 GHz
Divergence	< 1.3 mrad
M^2	< 1.2
Pointing stability	< 5 urad
Power stability (rms)	< 2 %
Noise (1 Hz – 5 MHz)	< 2 %
Polarisation ratio	> 100:1
Polarisation direction	Vertical

Applications

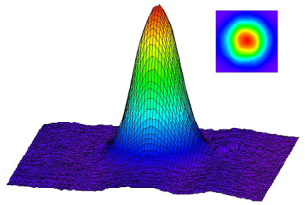
- Femto Ti:S pumping
- Ophthalmology
- Optical tweezers
- Non-destructive testing
- PIV
- Particle sizing

Features

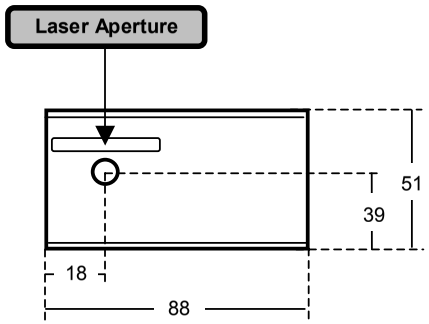
- High brightness
- High stability
- Microprocessor control
- Hermetically sealed
- High efficiency
- Highly compact

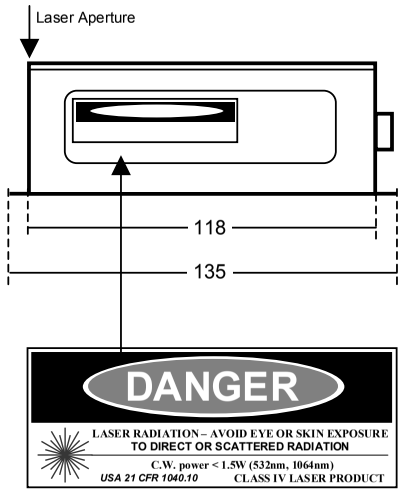


A TYPICAL <2% STABILITY GRAPH



SPATIAL PROFILE: TEM_{00}





DIMENSIONS
Power Range: 50 – 500 mW
(For powers >500 mW, see Ventus 1064 specs)

Laser Head (mm)

Base footprint (L x W)	135 x 88
Height	51
Beam height	39

Mounting Holes (mm)

Diameter	4
Separation (side to side)*	60
Separation (front to back)*	127

*measurements from hole centres

WEIGHT

Laser head (Kg)	0.9

PSU options

idu 3000
mpc 3000

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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