



ventus

1000 series – YLF Enhanced linear cavity design

250 mW
700 mW

The **ventus 1000 series** lasers are high specification single transverse mode CW infrared lasers using YLF crystals to generate 1047 nm and 1053 nm. Meticulous laser cavity design has resulted in a low noise and near diffraction limited beam. Contained within a compact package, these extremely efficient systems are suitable for the scientific and research community.



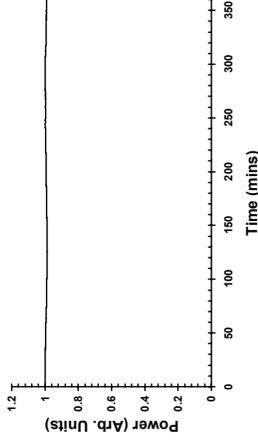
www.laserquantum.com

Laser Quantum

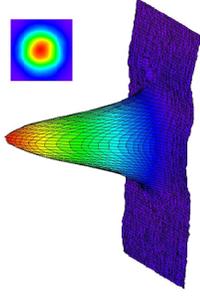
Laser Specifications	1047 nm	1053 nm
Power	250, 750 mW	250, 750 mW
Wavelength	1047 nm	1053 nm
Transverse mode	TEM00	TEM00
Bandwidth	< 40 GHz	< 40 GHz
Divergence	< 1.2 mrad	< 1.2 mrad
M ²	1.2	1.2
Pointing stability	< 5 urad	< 5 urad
Power stability (rms)	< 1 %	< 1 %
Noise (1 Hz – 100 MHz)	< 0.5 %	< 0.5 %
Polarisation ratio	> 200:1	> 200:1
Polarisation direction	Horizontal	Horizontal

- Applications**
- Nd:glass alignment
 - Inspection
 - Optical tweezers
 - Non-destructive testing

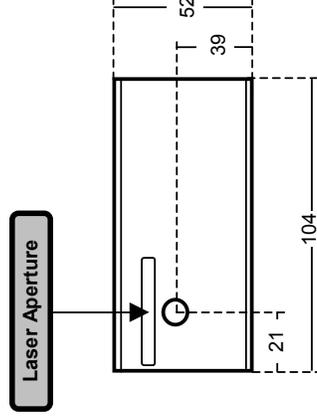
- Features**
- High brightness
 - Microprocessor control
 - Hermetically sealed
 - Compact design
 - Near-diffraction limited



A TYPICAL <1% STABILITY GRAPH



SPATIAL PROFILE: TEM₀₀



DIMENSIONS

Laser Head (mm)
 Base footprint (L x W) 174 x 104
 Height 52
 Beam height 39

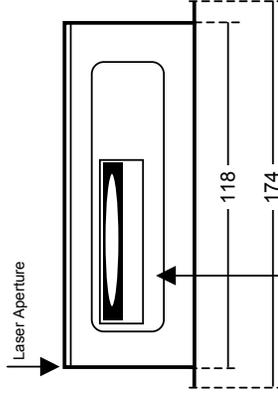
Mounting Holes (mm)

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



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