



ventus

1064 – Enhanced linear cavity design

1.5 W
3 W

The **ventus 1064** laser is a high specification single transverse mode CW infrared laser, providing variable power up to 3 W. A unique and innovative laser cavity design has resulted in a low-noise and near diffraction limited beam. Contained within a compact package, this extremely efficient system is suited to both laboratory and OEM applications.



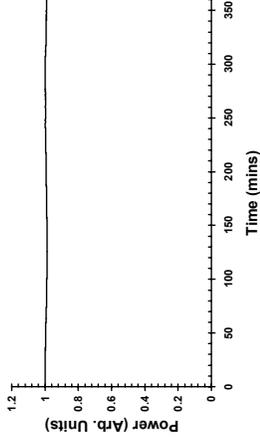
www.laserquantum.com

Laser Quantum

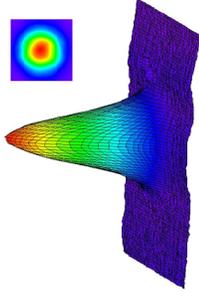
Laser Specifications	
Power	1.5 W, 3 W
Wavelength	1064 nm
Beam size	2.5 mm
Transverse mode	TEM ₀₀
Bandwidth	< 80 GHz
Divergence	< 1.2 mrad
M ²	1.2
Pointing stability	< 5 urad
Power stability (rms)	< 1 %
Noise (1 Hz – 100 MHz)	< 0.5 %
Polarisation ratio	> 200:1
Polarisation direction	Vertical

- Applications**
- Inspection
 - Optical tweezers
 - Fluorescence imaging
 - Non-destructive testing
 - Plastic sintering

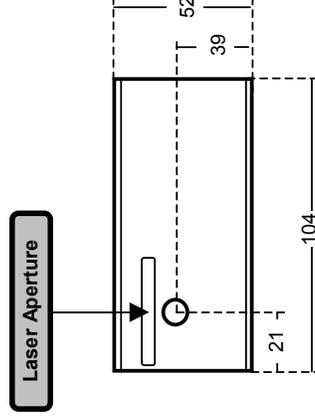
- Features**
- High brightness
 - Microprocessor control
 - Hermetically sealed
 - Extremely efficiency
 - Compact



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

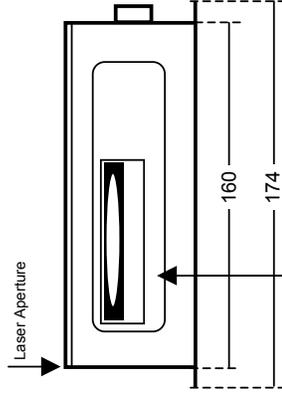
*measurements from hole centres

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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POLYTEC GmbH

Büro Berlin Schwarzschildstraße 1 D – 12489 Berlin
 Tel: +49 (30) 63 92 51 40 Fax: +49 (30) 63 92 51 41

GERMANY



wl@polytec.de
 www.polytec.de