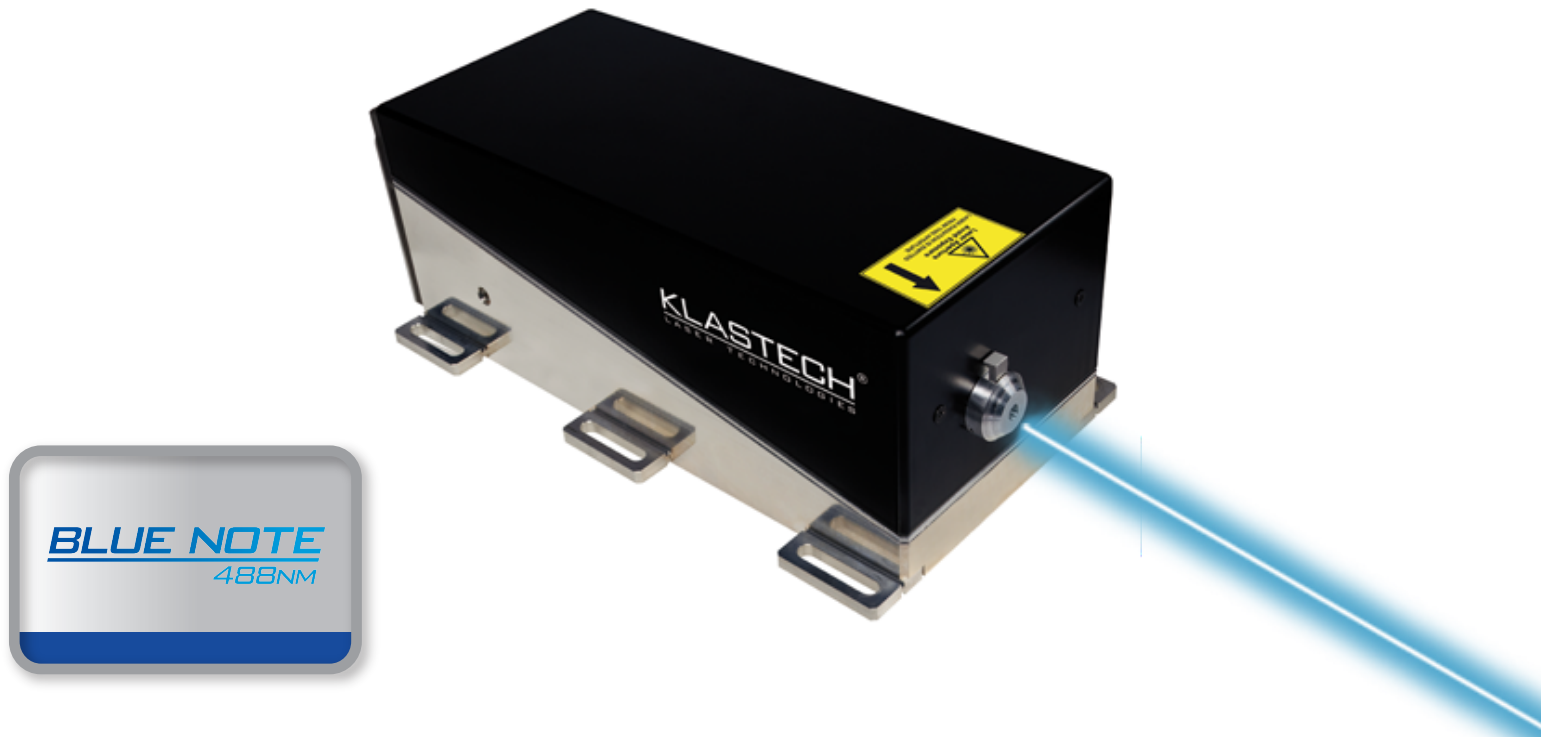


KLASTECH[®]
a PowerTechnology Company

Blue Note[®] 488nm

Diffraction Limited Technology
with German Engineering



The Blue Note[®] series of lasers are solid state laser systems that emit blue single frequency laser light at 488nm.

These systems are based on KLA TECH's proprietary laser-cavity design allowing for ultra-high 976nm single frequency generation that is doubled to achieve a stable single frequency 488nm output with >100m coherence lengths all in a compact, proprietary design.

Applications include holography, confocal microscopy, flow cytometry and Raman spectroscopy.

EURASIA:
KLA TECH GmbH
www.klastech.com
+49 231 999 505 50
info@Klastech.com

AMERICAS:
Power Technology, Inc.
www.PowerTechnology.com
+1 501 407 0712
sales@PowerTechnology.com

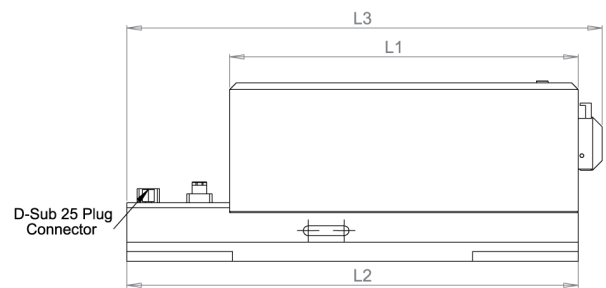
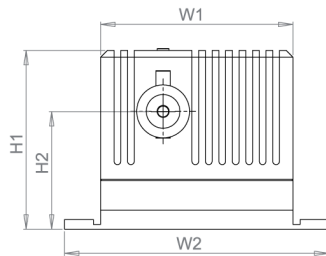
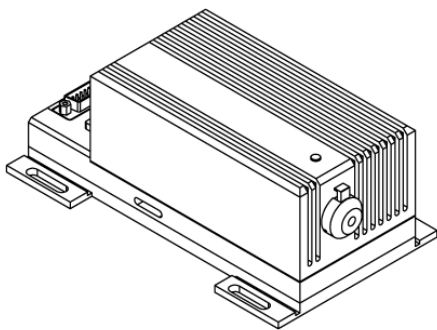


Features

- Intrinsic single longitudinal mode performance
- Diffraction limited beam quality
- Scalable, compact design
- Long term power stability

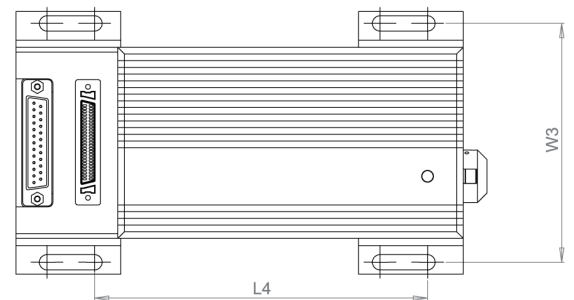
Applications

- Holography
- Confocal Microscopy
- Flow Cytometry
- Raman Spectroscopy



Optical Performance:

Output wavelength (nm)	488 nm \pm 0.5
Rated output power (CW)	25, 50, 75 & 100 mW
Output beam diameter	1.0mm
Transverse mode structure	TEM $M^2 < 1.05$
Longitudinal mode structure	SLM (Single frequency)
Divergence	Diffraction limited
Beam pointing stability	$\leq 10\text{urad}/^\circ\text{C}$
Spectral linewidth	$< 1\text{MHz}$
Coherence length	$> 100\text{m}$
Polarisation	Vertical
Polarisation ratio	$\geq 100: 1$
Output power noise (p-p)	$\leq 2\%$ (10 Hz - 2 MHz)
Output power noise (rms)	$\leq 0.3\%$ (10 Hz - 2 MHz)
Output power stability	$\leq 2\%$ (4 hours)
Thermal management	TEC conductive cooling through metal heat sink plate
Operating fixation plate temp.	15 - 35 $^\circ\text{C}$
Laser dimensions (L2 x W1 x H1)	280 x 105 x 100mm
Power interface	Standard AC/DC converter, 12VDC, 150W max with Mini-DIN 4 power connector



L1	237mm
L2	280mm
L3	290mm
L4	200mm
W1	105mm
W2	135mm
W3	125mm
H1	100mm
H2	50mm