



“Eye – safe” 1,5 μm laser

KAUKAS CW



FEATURES:

Up to 400 mW of continuous wave power
Compact DPSS design
Various 1,5 μm wavelength models
High beam quality

APPLICATIONS:

Optical instrumentation
Metrology and spectroscopy
Life sciences



**Laser specifications:**

Wavelength	1522 nm	1531 nm	1542 nm	1550 nm	1555 nm	1602 nm
Wavelength tolerance	± 1 nm					
Beam divergence, full angle	<5 mRad					
Beam diameter at exit window	<1 mm					
Beam quality	$M^2 < 1,5$					
Beam profile	TEM ₀₀					
Polarization ratio	Linear, >100:1					
Average output power	300 mW	300 mW	300 mW	400 mW	300 mW	150 mW
Power stability (3 hour)	<1 % (after 30 min of warm up)					

Physical dimensions:

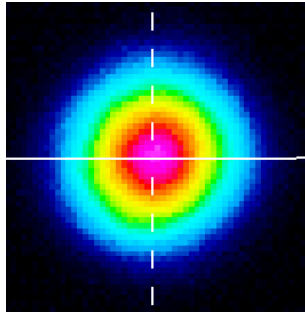
Laser module dimensions	175 x 78 x 86 mm (L x W x H)
Laser driver dimensions	164 x 105 x 44 mm (L x W x H)

Utility requirements:

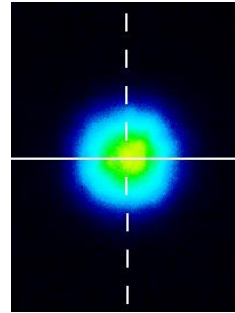
Pump current	5-10 A
Electric	100-240 V AC, 50/60 Hz, 1.4 A
Operating temperature	15 – 25 °C
Cooling	TEC element + air cooling



Laser beam profile:

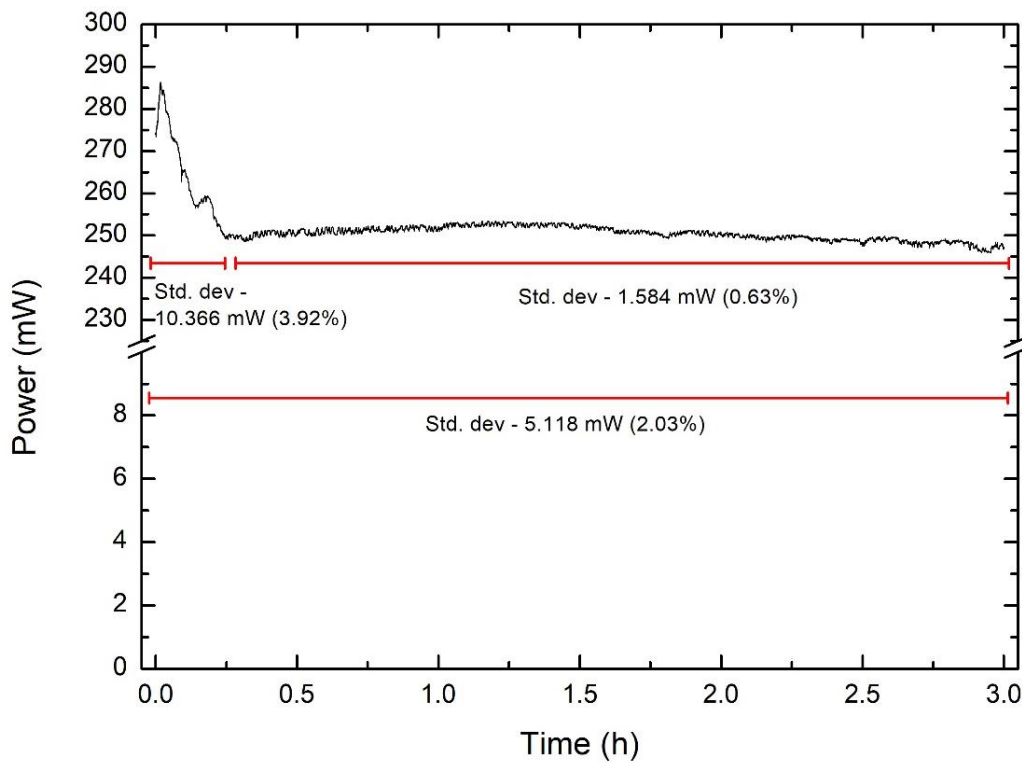


Near field (14 cm from the laser) beam profile



Far field (70 cm from the laser) beam profile

Power stability:



Power stability measurement for 1531 nm laser with 25 min of warm up



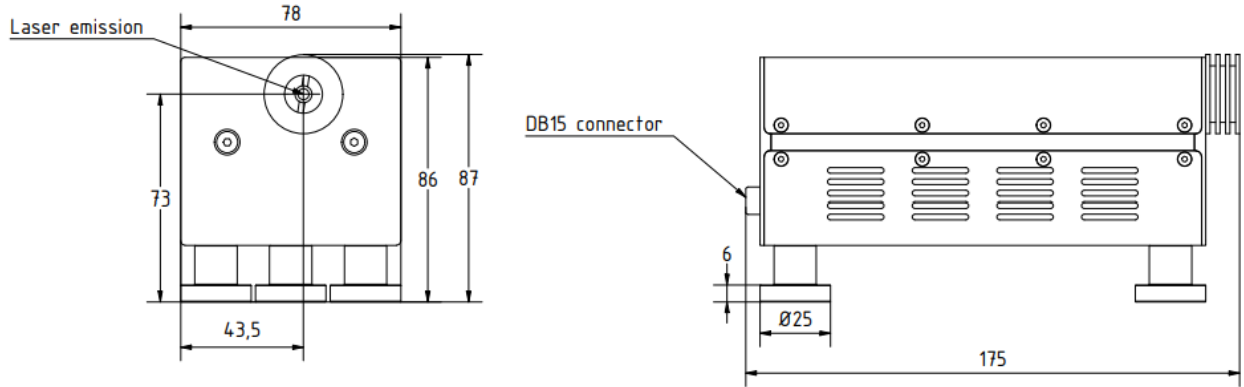
Necessary components to run the laser:

<p>KAUKAS CW laser head*</p>	<p>Laser driver</p>
<p>Power supply with cables</p>	<p>USB-RS232 adapter</p>





Laser head schemes:



Laser safety class:

