OPTOGAMA

“Eye – safe” 1,5 µm laser

KAUKAS CW

FEATURES:

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

APPLICATIONS:

Optical instrumentation
Metrology and spectroscopy
Life sciences

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Laser specifications:

Wavelenght	1522 nm	1531 nm	1542 nm	1550 nm	1555 nm	1602 nm
Wavelenght 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

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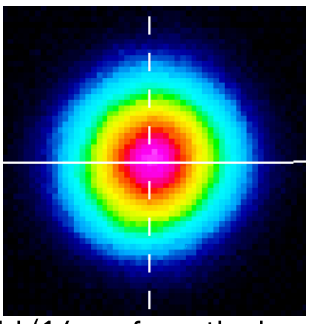
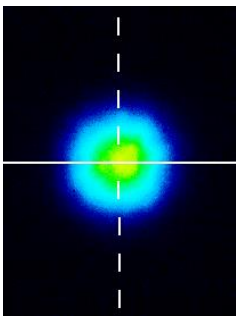
Laser beam profile:

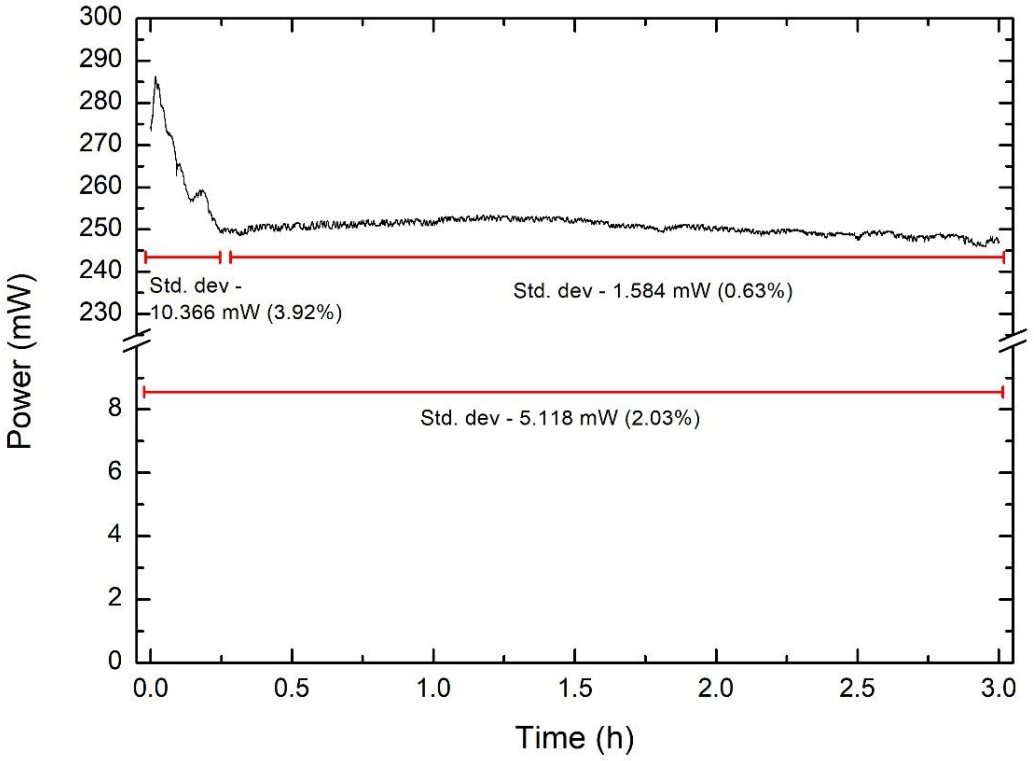


Near field (14 cm from the laser) beam profile



Far field (70 cm from the laser) beam profile

Power stability:



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

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Necessary components to run the laser:

	
KAUKAS CW laser head*	Laser driver
	
Power supply with cables	USB-RS232 adapter

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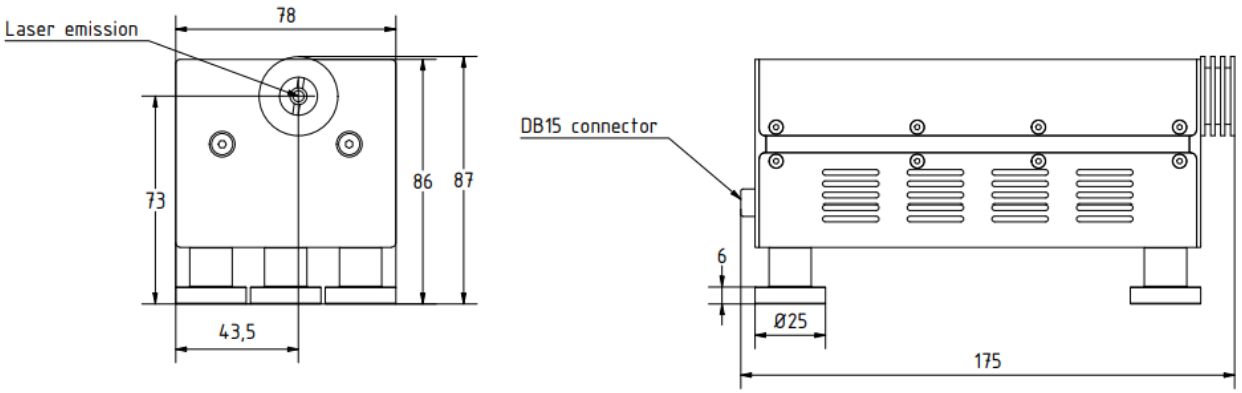
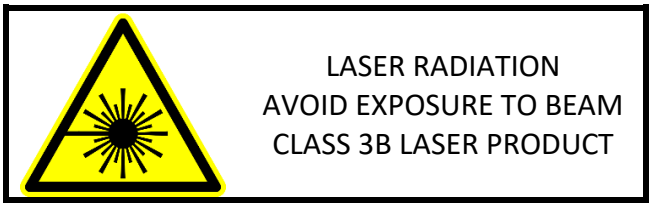
Laser head schemes:



Laser safety class:



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