



## "Eye-safe" 1,54 µm ns laser

### KAUKAS 3



#### FEATURES:

Compact robust design  
High energy per pulse > 3mJ  
OEM version available

#### APPLICATIONS:

LIDAR and Laser Ranging  
LIBS  
Metrology and instrumentation



### Laser characteristics:

Wavelength	1534 nm
Wavelength tolerance	± 1 nm
Pulse energy	>3 mJ
Average output power	3 mW
Energy stability (2 hr), @1 Hz	<1 %
Pulse duration	<15 ns
Pulse repetition rate	0,5 – 1 Hz
Polarization contrast	>1:80
Beam diameter at exit window	<1 mm
Beam divergence	<5 mRad
Beam profile	TEM <sub>00</sub>

### Physical dimensions:

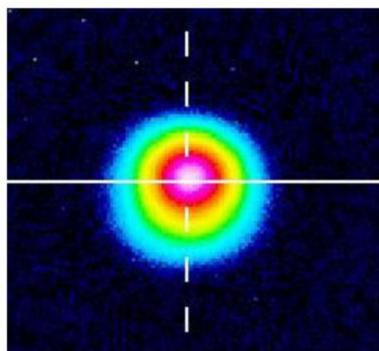
Laser module dimensions	61 x 33 x 29,5 mm (L x W x H)
Laser driver dimensions	128 x 83 x 48 mm (L x W x H)
Power supply dimensions	245 x 105 x 65 mm (L x W x H)

### Utility requirements:

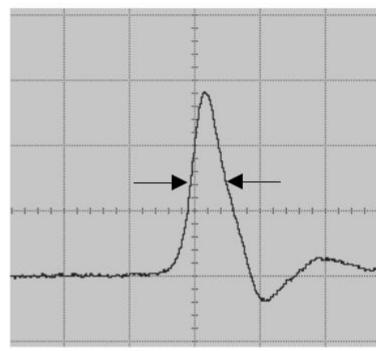
Pump current	<100 A
Pump time	>6 ms
Working temperature	-20 ... +60°C
Cooling	Passive air cooling



Laser beam profile and laser pulse duration data:

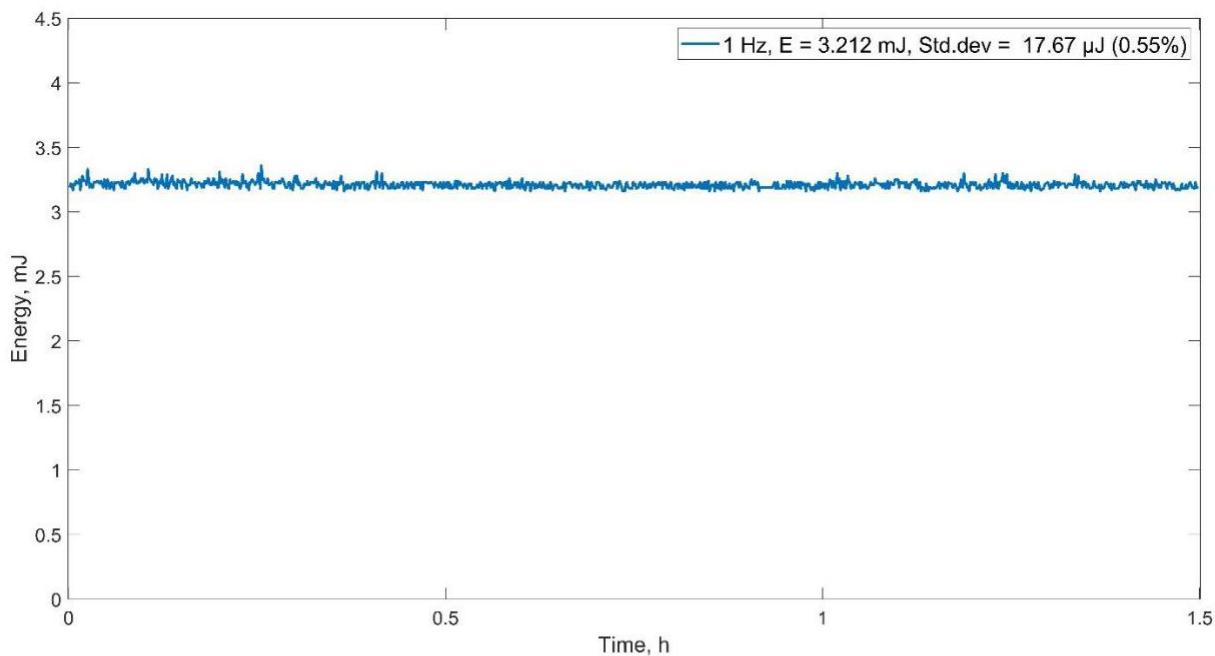


Beam profile at 1 Hz laser repetition rate



12 ns pulse duration at 1 Hz repetition rate

Output energy stability:



KAUKAS 3 laser average output energy stability for 1 Hz repetition rate at room temperature



Necessary components to run the laser:

	
1534 nm KAUkas 3 laser	Laser driver
	
Power supply	USB-RS232 adapter

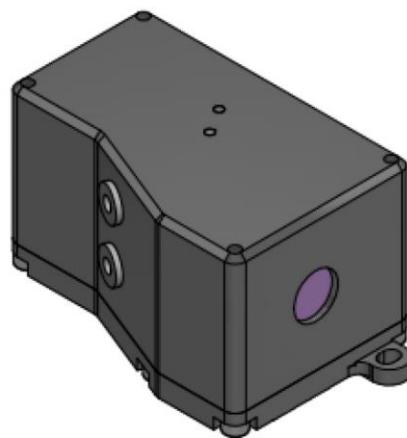
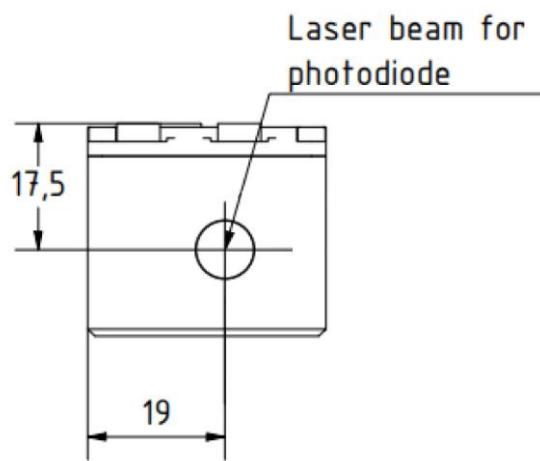
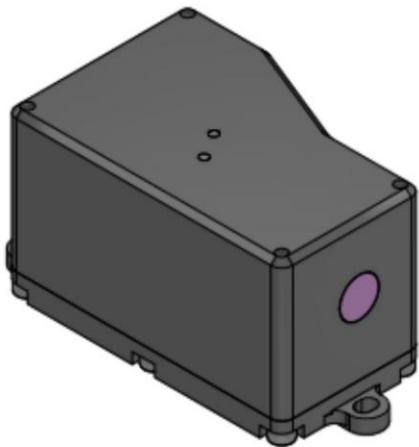
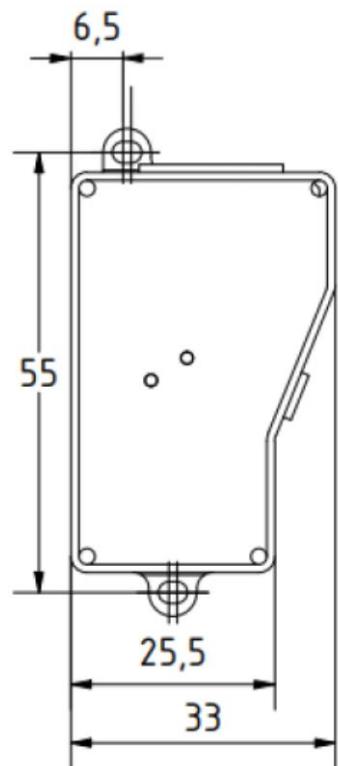
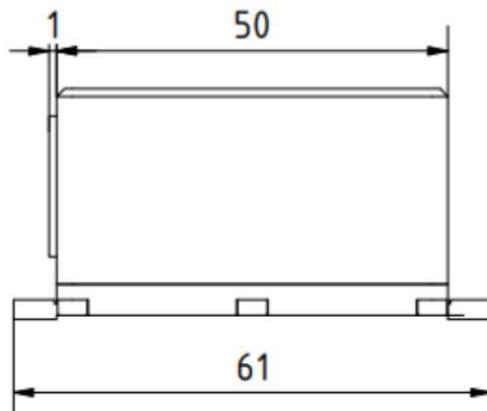
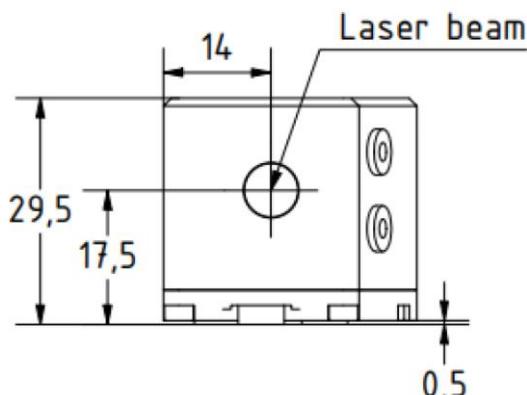
Laser safety class:





OPTOGAMA

Laser head schemes:



**PHOTO  
TECHNICA**

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