



"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 ₀₀

Physical dimensions:

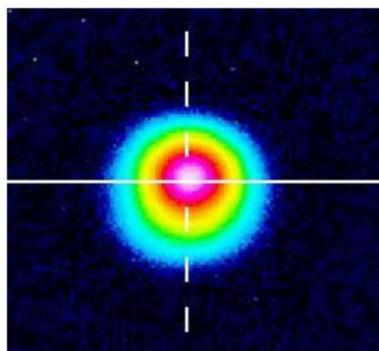
Laser module dimensions	61 x 33 x 29,5 mm (L x W x H)
Laser driver dimensions	128 x 83 x 48 mm (L x W x H)
Power supply dimensions	245 x 105 x 65 mm (L x W x H)

Utility requirements:

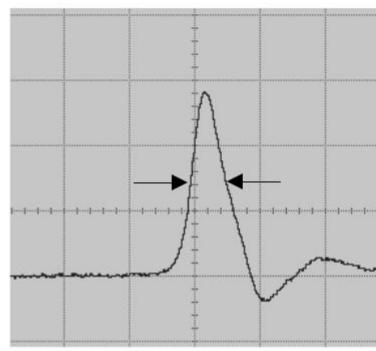
Pump current	<100 A
Pump time	>6 ms
Working temperature	-20 ... +60°C
Cooling	Passive air cooling



Laser beam profile and laser pulse duration data:

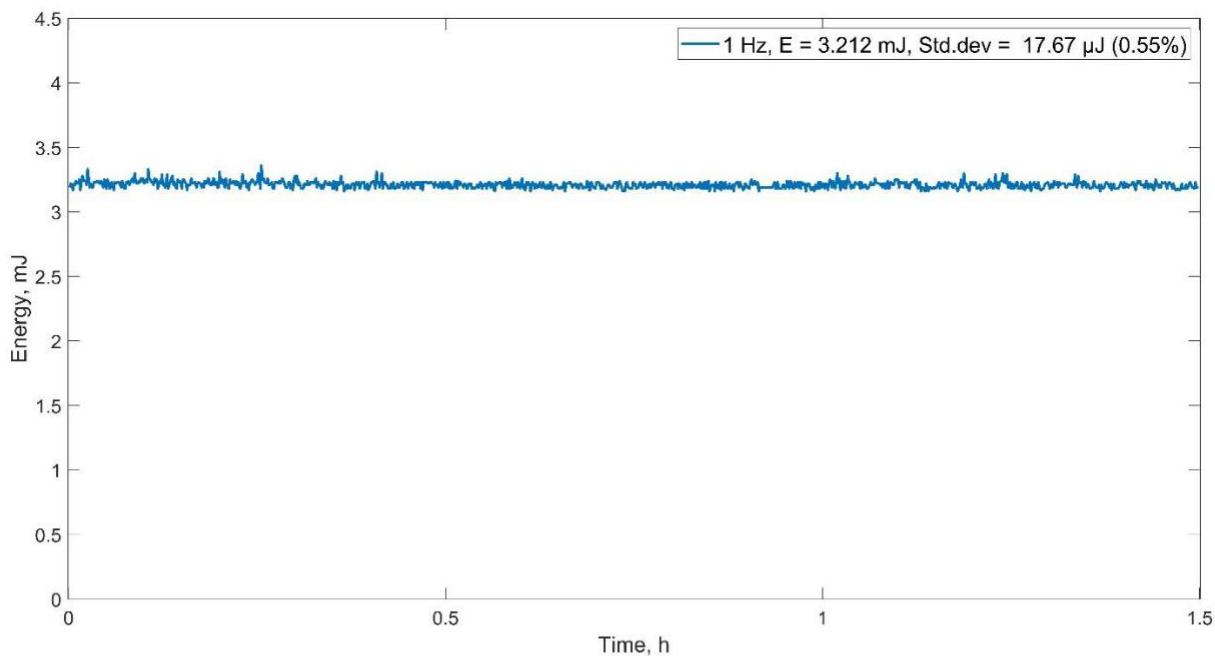


Beam profile at 1 Hz laser repetition rate



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



OPTOGAMA

“Eye-safe” 1,54 µm ns laser

KAUKAS HR



FEATURES:

Compact robust design
Energy per pulse > 30 µJ @ 1 kHz
OEM version available

APPLICATIONS:

LIDAR and Laser Ranging
LIBS
Metrology and instrumentation

UAB Optogama
Mokslininku str. 2A
LT-08412, Vilnius, Lithuania
sales@optogama.com

Tel.: +370 5 219 4884
Fax.: +370 5 219 4883
Company code: 304023355
VAT ID LT100009337919

Bank details:
IBAN: LT88 7044 0600 0802 0123 with AB SEB
Bank code 70440, Gedimino ave. 12
LT-01103 Vilnius, Lithuania, SWIFT: CBVI LT 2X



Laser characteristics:

Wavelength	1534 nm	
Wavelength tolerance	± 1 nm	
Pulse energy	> 45 µJ	>30 µJ
Average output power @1 kHz	4,5 mW	30 mW
Energy stability (2 hr), @1 kHz	<3 %	
Pulse duration	<7 ns	
Pulse repetition rate	100 Hz	1 kHz
Polarization contrast	>1:80	
Beam diameter at exit window	<1 mm	
Beam divergence	<5 mRad	
Beam profile	TEM ₀₀	

Physical dimensions:

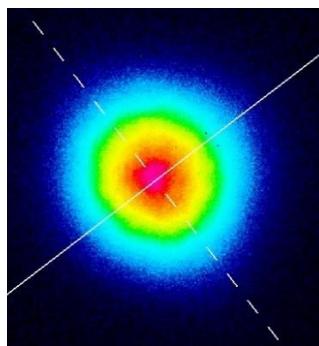
Laser module dimensions	111 x 34 x 25,5 mm (L x W x H)
Laser driver dimensions	248 x 105 x 64 mm (L x W x H)

Utility requirements:

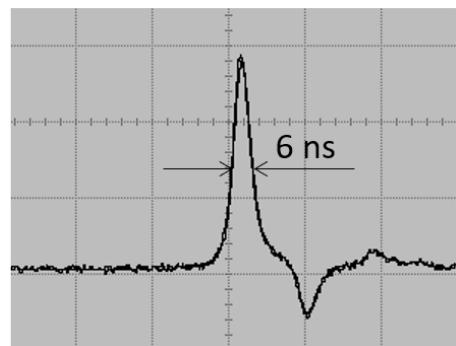
Pump current	<6 A
Working temperature	15 - 35°C
Cooling	Passive air cooling



Laser beam profile and laser pulse duration data:



Beam profile at 1 kHz laser repetition rate
(46 cm distance)



6 ns pulse duration at 1 kHz repetition rate

Output energy stability:



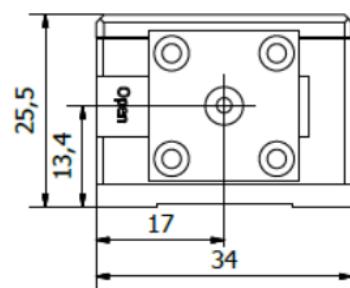
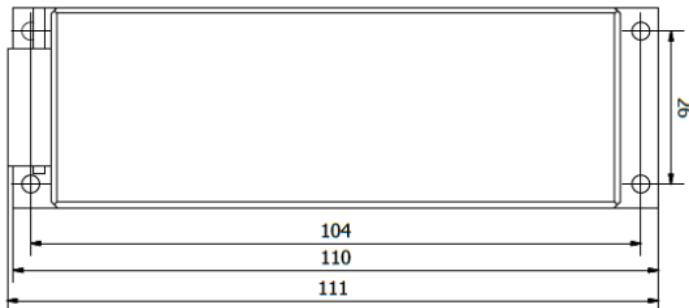
Energy stability measurement of 1kHz laser model. Min. – 36,15 µJ, Max. – 37,97 µJ,
Average – 36,77 µJ, Std.Dev. – 389,9 nJ (1,06%)



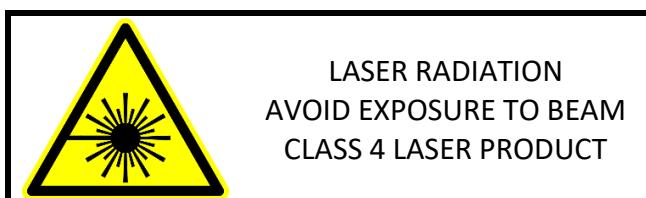
Necessary components to run the laser:



Laser head schemes:



Laser safety class:



**PHOTO
TECHNICA**

UAB Optogama
Mokslininku str. 2A
LT-08412, Vilnius, Lithuania
sales@optogama.com

www.phototechnica.co.jp

フォトテクニカ株式会社

Tel.: +370 5 219 4884
Fax.: +370 5 219 4883
Company code: 304023355
VAT ID LT100009337919

〒336-0017 埼玉県さいたま市南区南浦和 1-2-17
TEL:048-871-0067 FAX:048-871-0068
e-mail:voc@phototechnica.co.jp

Bank details:
IBAN: LT88 7044 0600 0802 0123 with AB SEB
Bank code 70440, Gedimino ave. 12
LT-01103 Vilnius, Lithuania, SWIFT: CBVI LT 2X