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

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Laser characteristics:

Wavelenght	1534 nm	
Wavelenght 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 %	
Puse 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

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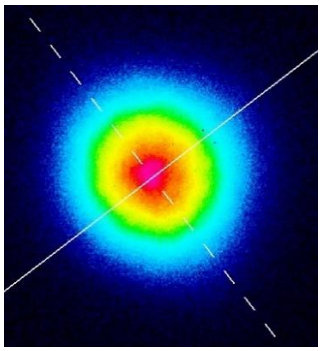
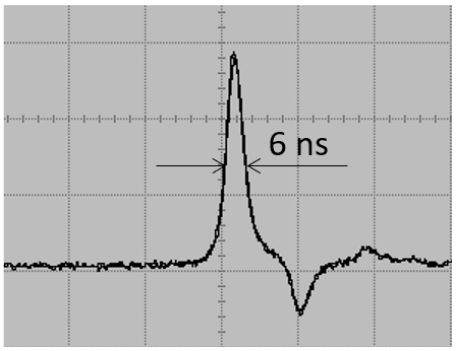
Laser beam profile and laser pulse duration data:

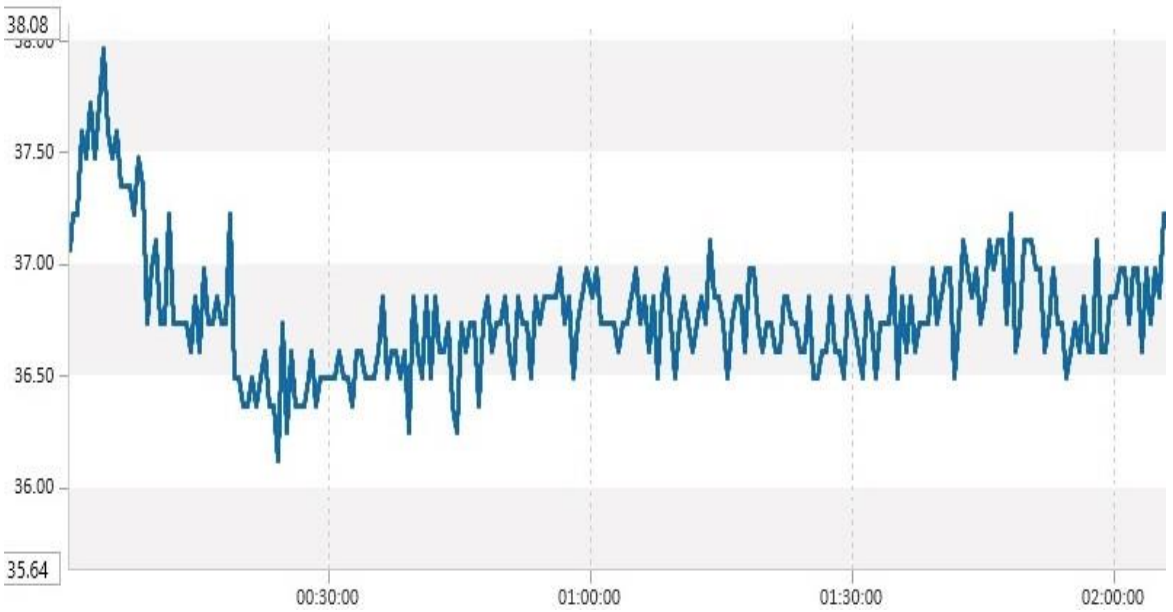


Beam profile at 1 kHz laser repetition rate (46 cm distance)



6 ns pusle 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%)

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Necessary components to run the laser:

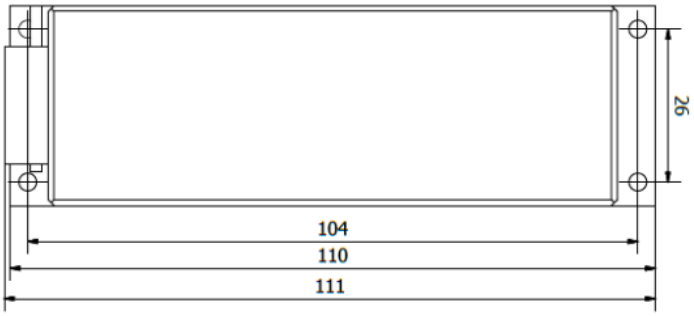
KAUKAS HR laser model

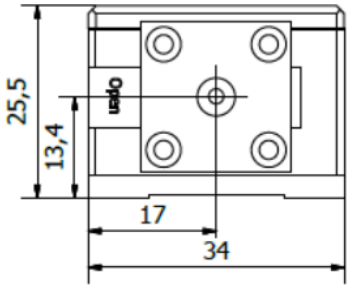
Laser driver

Power supply

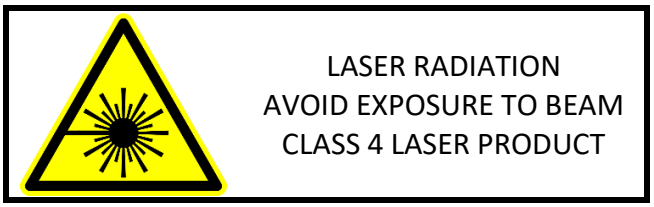
USB-RS232 adapter

Laser head schemes:





Laser safety class:



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