



# "Eye-safe" 1,54 $\mu\text{m}$ ns lasers "KAUKAS 3"

## Main features

- Compact robust design
- High energy per pulse (>3 mJ)
- Wide operating temperature range
- OEM version available

## Application examples

- LIDAR & Laser Ranging
- LIBS
- Metrology and instrumentation
- Research

"Eye-safe" 1,54  $\mu\text{m}$  wavelength nanosecond lasers "KAUKAS 3" possess a unique compact design and are available in OEM models for dedicated applications such as LIDAR or laser ranging. This specific "Eye-safe" 1,54  $\mu\text{m}$  wavelength lasers model "KAUKAS 3" delivers up to 3 mJ energy per pulse with a repetition rate of up to 1 Hz.

## Standard specifications

LASERS "KAUKAS 3" STANDARD SPECIFICATIONS	
Wavelength	1534 nm
Wavelength tolerance	$\pm 1$ nm
Repetition rate	SS-1Hz
Pulse energy	>3 mJ
Energy stability, STD	<3 %
Pulse duration	<8 ns
Beam diameter at exit window	<1 mm
Beam quality	$M^2 < 2$
Beam profile	TEM <sub>00</sub>

## Standard products

LASER MODEL	WAVELENGTH	REPETITION RATE	PULSE ENERGY	PULSE DURATION	OPERATING TEMPERATURE	WEIGHT	POWER SUPPLY AND DRIVER	SKU
KAUKAS 3	1534 nm	SS-1 Hz	>3 mJ	<8 ns	-20°C to +60°C	0,1 kg	Excluded	30829
					+10°C to +40°C	0,1 kg	Excluded	30944
					+10°C to +40°C	0,1 kg	Included	30945

## Utility requirements

LASERS "KAUKAS 3" UTILITY REQUIREMENTS	
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)
Pump current	<100 A
Pump duration	<4 ms
Electric	100-240 V AC, 20 A, 50/60 Hz
Working temperature	- 20 - +60 °C
Cooling	Passive air cooling


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 フォトテクニカ株式会社  
 〒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