

## "Eye-safe" 1,5 µm lasers "KAUKAS CW"



"KAUKAS CW" series of diode-pumped, solid-state laser models that deliver up to 400 mW of continuous-wave power at several 1,5 µm wavelengths. These erbium-doped gain media based economical, active air-cooled lasers provide a unique combination of high performance, exceptional lifetime,

### Main features

- Up to 400 mW of CW power
- Compact DPSS design
- Various 1,5 µm wavelength models
- High beam quality

### Application examples

- Optical instrumentation
- Metrology and spectroscopy
- Life sciences



and outstanding reliability. "KAUKAS CW" "eye-safe" lasers offer a diffraction-limited,  $TEM_{00}$  output beam, excellent power stability, and narrowband spectrum.

### Standard specifications

"KAUKAS CW" LASERS STANDARD SPECIFICATIONS	
Wavelength	1,5 µm
Wavelength tolerance	±1 nm
Laser operating mode	CW
Average output power	Up to 500 mW
Power stability	<2 %
Polarization contrast	>100:1
Beam diameter at exit window	<1 mm
Beam divergence	<5 mRad
Beam quality	$M^2 < 1,5$
Beam profile	$TEM_{00}$

### Standard products

LASER MODEL	WAVELENGTH	AVERAGE OUTPUT POWER	POLARIZATION RATIO	BEAM DIVERGENCE	BEAM QUALITY
KAUKAS CW-K	1522 nm	300 mW	>100:1	<5 mRad	$M^2 < 1,5$
KAUKAS CW-P	1531 nm	300 mW	>100:1	<5 mRad	$M^2 < 1,5$
KAUKAS CW-N	1542 nm	300 mW	>100:1	<5 mRad	$M^2 < 1,5$
KAUKAS CW-G	1550 nm	400 mW	>100:1	<5 mRad	$M^2 < 1,5$
KAUKAS CW-Y	1555 nm	300 mW	>100:1	<5 mRad	$M^2 < 1,5$
KAUKAS CW-S	1602 nm	150 mW	>100:1	<5 mRad	$M^2 < 1,5$

### Utility requirements:

"KAUKAS CW" LASERS UTILITY REQUIREMENTS	
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)
Pump current	5-10 A
Electric	100-240 V AC, 50/60 Hz, 1,4 A
Working temperature	15-25 °C
Cooling	TEC element + active air cooling

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