

# TRAP

Optical trap detectors



## COMPATIBLE DISPLAYS & PC INTERFACES

- **TRAP -PREAMP**  
Low noise, high gain amplifier

## KEY FEATURES

- **HAVE YOUR OWN GOLDEN CALIBRATION STANDARD**  
The high quantum efficiency (>99 %) makes it an excellent calibration transfer standard
- **INCREDIBLE SPATIAL UNIFORMITY**  
The spatial uniformity is better than 0.05 %
- **LOW CALIBRATION UNCERTAINTY**  
From 440 to 980 nm
- **FOR DIVERGENT OR COLLIMATED BEAMS**  
Devices optimized for both types of lasers
- **MEASURE POWER FROM NW TO MW**  
When used with the TRAP-PREAMP amplifier that provides a direct digital readout

## ACCESSORIES



Stand with delrin post




Pelican carrying case

# TRAP

Specifications



	TRAP7-SI-C-BNC	TRAP7-SI-D-BNC
<b>MAX AVERAGE POWER</b>	1 mW	1 mW
<b>EFFECTIVE APERTURE</b>	7 mm $\phi$	7 mm $\phi$
<b>BEAM TYPE</b>	Collimated	Divergent
<b>MEASUREMENT CAPABILITY</b>		
Spectral range	200 - 1100 nm	200 - 1100 nm
Calibrated spectral range	440 - 980 nm	440 - 980 nm
Maximum average power	1 mW	1 mW
Noise equivalent power	100 pW	100 pW
Current responsivity (at 630 nm)	0.5054 A/W	0.5054 A/W
Beam type	Collimated	Collimated or divergent
Field of view	$\pm 10^\circ$	$\pm 14^\circ$
Quantum efficiency	> 99%	> 99%
Calibration uncertainty	< $\pm 1.0\%$ (440 - 980 nm)	< $\pm 1.0\%$ (440 - 980 nm)
Spatial uniformity	0.05 % in 5 mm diameter	0.05 % in 5 mm diameter
<b>DAMAGE THRESHOLDS</b>		
Maximum average power density	1 mW/cm <sup>2</sup>	1 mW/cm <sup>2</sup>
<b>PHYSICAL CHARACTERISTICS</b>		
Aperture diameter	7 mm $\phi$	7 mm $\phi$
Sensor	Silicon	Silicon
Dimensions	69 $\phi$ x 27.7D mm	69 $\phi$ x 27.7D mm
Weight	0.23 kg	0.23 kg
<b>ORDERING INFORMATION</b>		
Available output options	BNC only	BNC only
Compatible stand	STAND-D-233	STAND-D-233
Product page		

Specifications are subject to change without notice