

SPECIAL PRODUCTS

TRAP

Optical Trap Detectors



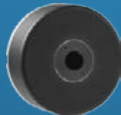
KEY FEATURES

- 1 Don't Lose Your Photons Anymore**
Highest Efficiency Detectors in the Photonics World, Quantum efficiency (QE) >>99 %
- 2 Have your own Golden Calibration Standard**
The high QE makes it an excellent, standalone, calibration transfer standard
- 3 Incredible Spatial Uniformity**
The spatial uniformity is better than 0.02 %
- 4 Low Calibration Uncertainty <0.5 %**
From 480 to 970 nm
- 5 For Low Divergence or Collimated Beams**
Devices optimized for both types of lasers
- 6 Measure power from pW to mW**
When used with the TRAP-PREAMP amplifier that provides a direct digital readout

AVAILABLE MODELS



TRAP7-Si-C
(For Collimated Beams)



TRAP7-Si-D
(For Divergent Beams)

ACCESSORIES



Stand with Delrin Post

TRAP-PREAMP

TRAP-PREAMP
Low Noise, High Gain Amplifier



Pelican Carrying Case

SEE ALSO

TECHNICAL DRAWINGS
LIST OF ALL ACCESSORIES

OPTICAL TRAP DETECTORS

TRAP

SPECIFICATIONS



Approved or in the process of being approved*

MODELS	TRAP7-Si-C-BNC	TRAP7-Si-D-BNC
MAX AVERAGE POWER	2 mW	2 mW
EFFECTIVE APERTURE	7 mm \emptyset	7 mm \emptyset
COMPATIBLE MODULE	TRAP-PREAMP	TRAP-PREAMP

MEASUREMENT CAPABILITY

Spectral Range (Calibrated)	0.2 - 0.98 μ m	0.2 - 0.98 μ m
Max Measurable Power	2 mW	2 mW
Noise Equivalent Power	100 pW	100 pW
Sensitivity	0.505 A/W	0.505 A/W
Theoretical Uncertainty		
0.22 - 0.4 μ m	< 4.5%	< 4.5%
0.401 - 0.98 μ m	< 2%	< 2%
Quantum Efficiency (400nm to 950nm)	> 99%	> 99%
Spatial Uniformity	< 0.02%	< 0.02%

DAMAGE THRESHOLDS

Max Average Power Density	1 mW/cm ²	1 mW/cm ²
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PHYSICAL CHARACTERISTICS

Effective Aperture	7 mm \emptyset	7 mm \emptyset
Sensor	Silicon	Silicon
Source Type	Collimated	Divergent
Field of view	< \pm 10°	< \pm 14°
Dimensions	69.1 \emptyset X 30.0D mm	66.8H X 67.3W X 27.4D mm
Weight	227 g	227 g

ORDERING INFORMATION

Full Product Name	TRAP7-Si-C-BNC	TRAP7-Si-D-BNC
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Specifications are subject to change without notice

Catalogue 2013_V1.0