

TRAP-USB

Optical Trap Detectors, Integrated USB Module



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 Integrated USB Module**
Plug the device directly to your PC, no need for an additional PC-Interface

AVAILABLE MODELS



TRAP7-Si-C-USB
(For Collimated Beams)



TRAP7-Si-D-USB
(For Divergent Beams)

ACCESSORIES



Stand with Delrin Post



Pelican Carrying Case

SEE ALSO

TECHNICAL DRAWINGS

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TRAP-USB

SPECIFICATIONS



Approved or in the process of being approved*

MODELS	TRAP7-Si-C-USB	TRAP7-Si-D-USB
MAX AVERAGE POWER	2 mW	2 mW
EFFECTIVE APERTURE	7 mm Ø	7 mm Ø
INTEGRATED MODULE	Digital (USB)	Digital (USB)

MEASUREMENT CAPABILITY		
Spectral Range	0.2 - 0.98 µm	0.2 - 0.98 µm
Max Measurable Power	2 mW	2 mW
Noise Equivalent Power	2 pW	2 pW
Theoretical Uncertainty		
0.2 - 0.26 µm	< 1.0%	< 1.5%
0.27 - 0.4 µm	< 3%	< 5%
0.41 - 0.98 µm	< 0.5%	< 1%
Spatial Uniformity	< 0.02%	< 0.02%
DAMAGE THRESHOLDS		
Max Average Power Density (@ 1064nm)	1 mW/cm ²	1 mW/cm ²
PHYSICAL CHARACTERISTICS		
Effective Aperture	7 mm Ø	7 mm Ø
Sensor	Silicon	Silicon
Source Type	Collimated	Divergent
Max Source Divergence	< ± 10°	< ± 15°
Dimensions	81.3Ø X 112D mm	81.3Ø X 112D mm
Weight	680 g	680 g
ORDERING INFORMATION		
Full Product Name	TRAP7-Si-C-USB	TRAP7-Si-D-USB
Product Number	201735	201736

Specifications are subject to change without notice

* For details, contact your Gentec-EO representative