

OUTPUT OPTIONS

> ANALOG OUTPUT

Plug the device directly into your oscilloscope or lock-in amplifier with the BNC output

KEY FEATURES

- > COVERS THE ENTIRE THZ SPECTRUM Measure accurately from 0.25 to 15 μm and from 30 THz to 0.1 THz in relative terms
- > MEASURE POWER FROM nW TO uW Make low-level measurements with an NEP of 1.0 nW
- MEASURE ENERGY FROM nJ TO µJ Can be used with low repetition rate pulsed THz sources to measure pulse energy up to 40 Hz
- INTEGRATED ANALOG MODULE Plug the device directly into your oscilloscope or Lock-In Amplifier
- > BATTERY OR EXTERNAL POWER Includes 9V battery and an external power supply

CALIBRATED AT 0.63 μm

All THz detectors are calibrated at a single wavelength (0.63 µm) and include typical wavelength correction data from 0.25 to 440 μ m. They are used for relative measurements outside that range.

> SDC-500 OPTICAL CHOPPER The THZ-I-BNC models require the use of an optical chopper, like our SDC-500, running at 5 Hz.

ACCESSORIES





Stand with delrin post



Pelican carrying case



Removable IR Windows (Various types available)



SDC-500 digital optical chopper





6
9

		POV
	THZ5I-BL-BNC	POWER DETECTORS
MAX AVERAGE POWER	140 μW	DETE
EFFECTIVE APERTURE	5 mm Ø	сто
INTEGRATED MODULE	Analog (BNC)	RS
MEASUREMENT CAPABILITY		
Spectral range ^a		
Frequency	0.1 - 30 THz	E
Wavelength	3000 - 10 µm	ERG
Max measurable power	140 µW	Y DE
Noise equivalent power ^b	1.0 nW [1.0 x 10 ⁻⁹ W/(Hz) ³]	ETEC
Rise time (0-100%)	≤ 0.2s	ENERGY DETECTORS
Sensitivity (Typical)	70 kV/W	S
Chopping frequency	5 Hz (Required)	
Calibration uncertainty	Contact us	
Energy mode		Ξ
Maximum measurable energy	Cμ 00Γ	AM
Noise equivalent energy	1.0 nJ	BEAM PROFILING
Minimum pulse width	1.0 μs	OFILI
Maximum repetition rate	40 Hz	NC
DAMAGE THRESHOLDS		
Maximum average power density (1064 nm)	50 mW/cm ²	
PHYSICAL CHARACTERISTICS		Ē
Effective aperture	5 mm Ø	RAH
Sensor	Pyroelectric	ERT
Absorber	BL	Z DI
Analog output	0-10 V	ETEC
Dimensions	81.3Ø X 99.3D mm	TERAHERTZ DETECTORS
Weight	500 g	S
ORDERING INFORMATION		
Compatible stand	STAND-D-233	Id SI (
Product page		DISPLAYS & PC INTERF/

a. Projected spectral range.

From 10 to 440 µm, spectrometer measurement. From 440 to 3000 µm, relative measurement only. This spectral range is subject to change. b. At 632 nm and a chopping frequency of 5Hz.

131