THZ-I-BNC

THz Detectors with integrated analog module



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 μW
 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 μm. 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



Removable IR Windows (Various types available)



SDC-500 digital optical chopper



Pelican carrying case







	THZSI-BL-BNC
MAX AVERAGE POWER	140µW
EFFECTIVE APERTURE	Smmll)
INTEGRATED MODULE	Analog (BNC)
MEASUREMENT CAPABILITY	
Spectral range•	
Frequency	O.I-30THz
Wavelength	3000-10 µm
Max measurable power	140µW
Noise equivalent power'	10 r/V M × 10• W/(Hz)//g
Rise time (0-100%)	0.25
Sensitivity (Typical)	70kV/W
Chopping frequency	5 Hz (Required)
Calibration uncertainty	Contact us
Energy mode	
Maximum measurable energy	100µJ
Noise equivalent energy	l.OnJ
Minimum pulse width	l.Oμs
Maximum repetition rate	40Hz
DAMAGE THRESHOLDS	
Maximum average power density (1064 m)	50 mW/cm ¹
PHYSICAL CHARACTERISTICS	
Effective aperture	Smmll)
Sensor	Pyroelectric
Absorber	BL

ORDERING INFORMATION

Compatible stand STAND-D-233

Product page

Analog output

Dimensions

Weight



フォトテクニカ株式会社

81311) X 99.3D mm

0-I0V

500g

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 SHz.

