



THz Imaging Kits

SOLUTION

The INO terahertz kit makes THz imaging easy, whatever your needs. The kit features our camera, which delivers high sensitivity across a wide spectral range, as well as a lens and a 282 GHz or 515 GHz light source with two modes of operation: transmission and reflection.

The user-friendly kit also comes with operating software that allows you to adjust camera settings, calibrate the camera, perform certain image corrections, and more.

APPLICATIONS

- Security screening and surveillance
- Manufacturing
- Laboratory experiments
- Concealed weapons detection
- Vision through camouflage
- Quality control, process monitoring
- Dental and medical imaging
- Food inspection
- Non Destructive Testing

BENEFITS

- Can be used in both transmission and reflection modes
- Includes everything for THz imaging (camera, optics, and a source)



Source Specifications ⁽¹⁾	Standard Kit 0.5 THz	Standard kit 0.28THz	Compact kit 0.5 THz	Compact kit 0.28 THz
Source Center Frequency ⁽²⁾	0.5 THz	0.28 THz	0.5 THz	0.28 THz
Illumination surface ⁽²⁾	4.5 x 6 inches	4.5 x 6 inches	3 x 4 inches	3 x 4 inches
Typical Output Power	1.25 mW	4 mW	1.25 mW	4 mW
Overall Dimensions	25 cm (H) x 44 cm (W) x 40 cm (L)	25 cm (H) x 44 cm (W) x 40 cm (L)	TBD	TBD
Weight	12.7 Kg	12.7 Kg	TBD	TBD
Others	<ul style="list-style-type: none"> • Near-flat-top rectangular illumination • External housing • Form factor of beam matched to fit INO THz sensor • United States Patent 			

Camera Specifications⁽¹⁾

Waveband ⁽²⁾	70 - 3189 μ m / 4.25 0.094 THz
Sensor ⁽²⁾	<ul style="list-style-type: none"> • 384 x 288 pixels uncooled microbolometer FPA • 35 μm pixel pitch • AR coating optimized for specific THz wavelengths • Frame rate of 50 Hz
Dimensions	61 mm (H) x 61 mm (W) x 65 mm (L)
Weight	360g / 0.8 lb (excluding optics)
Temperature	0 to 40 °C

Optics Specifications⁽¹⁾

Specifications ⁽²⁾	Ultrafast Optics
Type	Refractive
Focal length	44 mm
F number	0.7
Object distance	60 cm to infinity
Lens material	HRFZ-Si
Dimensions	80 mm (ϕ) 66.5 mm (L)
Weight	350 g

1. Specifications subject to change

2. Specifications can be adapted for specific requirements

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