



THz Imaging Kits

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

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

BENEFITS

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





THz Imaging Kits

Source Specifications ⁽¹⁾	Kit 0.5 THz	Kit 0.28 THz	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		~ 3 x 4 inches	
THz illumination optics	Optimized for beam uniformity at ~ 0.5 THz	Optimized for beam uniformity at ~ 0.28 THz	Optimized for beam uniformity at ~ 0.5THz	Optimized for beam uniformity at ~ 0.28 THz
Output Power	~ 1.25 mW typical	~ 4 mW typical	~ 1.25 mW typical	~ 4 mW typical
Overall Dimensions	25 cm (H) X 44 cm (W) X 40 cm (L)		TBD	
Weight	12.7 kg		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 35μm 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 (\varnothing) 66.5 mm (L)
Weight	350 g

¹ Specifications subject to change.

² Specifications can be adapted for specific requirements.