THz Illumination

INO offers a terahertz (THz) illumination source especially designed to build a complete THz imaging system when paired with INO's THz camera, the MICROXCAM-384i-THz.

The THz imaging system is used for see-through imaging. Its default configuration is for transmission imaging, where the object under test is placed between the THz source and the THz camera. The system may also be configured to operate in reflection mode.

APPLICATIONS

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

BENEFITS

- Can be used in both transmission and reflection modes

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Source Specifications[1]	Standard 0.5 THz	Standard 0.28 THz	Compact 0.5 THz NEW	Compact 0.28 THz NEW
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
Power Supply	110-240 V AC			
Power Consumption	~ 7-9 W			
Recommended Operating Temperature	+20°C to +30°C			
Overall Dimensions	25 cm (H) X 44 cm (W) X 40 cm (L)		TBD	
Weight	12.7 kg		TBD	
Others	• Near-flat-top rectangular illumination • External housing • Form factor of beam matched to fit INO THz sensor • United States Patent			

[1] Specifications subject to change.
[2] Specifications can be adapted for specific requirements.

ADDITIONAL COMPONENTS FOR COMPLETE THz IMAGING SYSTEM

- THz components (camera, objective, computer) can be purchased to build a complete THz system

INO
2740 Einstein Street, Québec City, Québec, G1P 4S4 Canada
418-657-7006 / 1-866-657-7406
www.ino.ca / info@ino.ca