



MICROXCAM-384i-THz

TERAHERTZ CAMERA

SOLUTION OVERVIEW

The MICROXCAM-384i-THz is a camera based on the sensitive INO 384 x 288-pixel uncooled microbolometer FPA optimized for the terahertz waveband. Due to its longer wavelength, THz band offers unmatched penetration depth for seeing through materials such as fabric, ceramic, plastic, leather, or cardboard. Thus, the camera shows unrivalled sensitivity over a wide spectral range, providing live video images. It features a very small footprint: 61 x 61 x 65 mm.

The camera electronics handles raw data acquisition and data transfer over GigE, providing 16-bit raw image outputs at 50 Hz. The camera can be further equipped with ultra-fast 44 mm focal length refractive optics optimized for the THz region.

TYPICAL APPLICATIONS

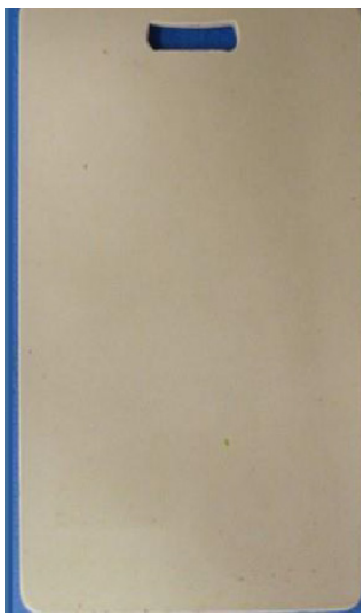
- Beam profiling
- Package inspection
- Manufacturing
- Security screening and surveillance
- Concealed weapons detection
- Vision through camouflage
- Quality control, process monitoring
- Spectroscopy
- Submillimeter astronomy
- Dental and medical imaging
- Food inspection

BENEFITS

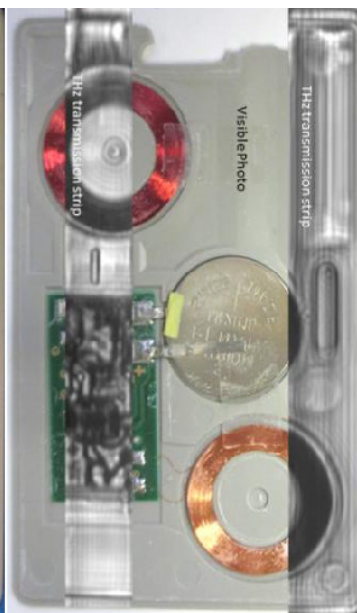
- Wide band response
- High sensitivity
- 16-bit raw data
- High image quality
- Refractive optics available



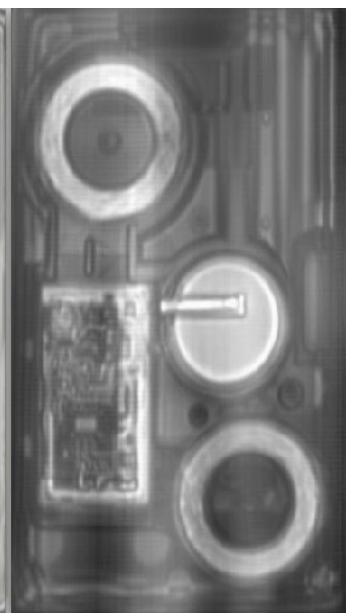
Visible image Magnetic Card



Visible image of opened card with THz transmission strips



Mosaic of THz image strips taken of sealed card



CAMERA SEPCIFICATIONS⁽¹⁾

Waveband ⁽²⁾	70 - 3189 μ m / 4.25 – 0.094 THz <ul style="list-style-type: none">• 384 x 288 pixels uncooled microbolometer FPA• 35μm pixel pitch• Silicon float zone window• AR coating optimized for specific THz wavelengths
Sensor ⁽²⁾	
Frame rate	50 Hz
	GigE Link
Video output	<ul style="list-style-type: none">• RJ-45 connector• 16-bit raw data
Supply	12 VDC Nominal (10VDC to 15VDC)
Power	< 3 W (excluding TEC power)
Dimensions	61 mm (H) x 61 mm (W) x 65 mm (L) / 2.4 in. (H) x 2.4 in. (W) x 2.6 in. (L)
Weight	360g / 0.8 lb (excluding optics)
Temperature	0 to 40 °C

1. Subject to change

2. Detector and coation may vary depending on the selected wavelength

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