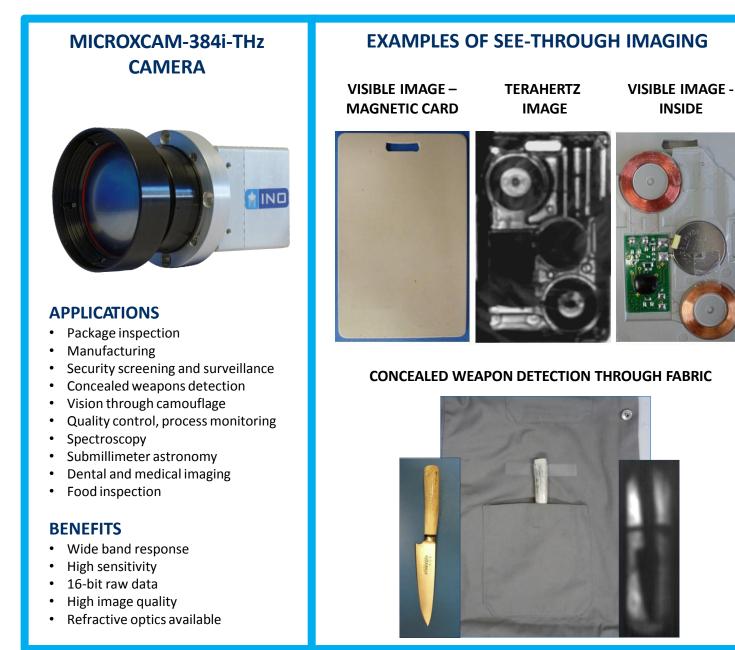


MICROXCAM-384i-THz

Terahertz Camera

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 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 fast or ultra-fast 44 mm focal length refractive optics optimized for the THz region.





MICROXCAM-384i-THz

Terahertz Camera

CAMERA SPECIFICATIONS (1)			
Waveband ⁽²⁾	70 – 3189 μm / 4.25 – 0.094 THz		
Sensor ⁽²⁾	 384 x 288 pixels uncooled microbolometer FPA 35 μm pixel pitch Silicon float zone window AR coating optimized for specific THz wavelengths 		
Frame rate	50 Hz		
Video output	GigE Link • 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	360 g / 0.8 lb (excluding optics)		
Temperature	0 to 40 °C		

Detector and coating may vary depending on the selected wavelength.

Subject to change.

Custom specifications available on demand.

(1)

(2) (3)

ODT		
OPT	ICS SPECIFIC	AHONS

Specifications ⁽³⁾	Fast Optics	Ultrafast Optics
Туре	Refractive	Refractive
Focal length	44 mm	44 mm
F number	0.95	0.7
Object distance	90 cm to infinity	60 cm to infinity
Lens material	HRFZ-Si	HRFZ-Si
AR coating	Parylene-C	Parylene-C
Number of lenses	2	2
Dimensions	80 mm (Ø), 52 mm (L)	80 mm (Ø), 66.5 mm (L)
Weight	235 g	350 g



F/0.95

F/0.7

R&D CONTRACTS – PROTOTYPING – PREPRODUCTION SHORT-RUN PRODUCTION – TECHNOLOGY TRANSFERS

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