

TicMOS-1kpx



A 1024 Pixel CMOS THz Video Camera. The world's first commercial terahertz camera based on a standard CMOS technology with integrated readout electronics.

Rating: Not Rated Yet

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Description

The camera supports room-temperature real-time sensing of terahertz radiation between 0.1–4 THz. It comprises a 32 x 32 on-chip pixel array that is packaged with a highly directive silicon lens. The TicMOS-1kpx camera module is designed for compactness and ease-of-use. It is controlled by a powerful visualization and post-processing software (see STicMOS v1.1). Featuring a highly sensitive single-pixel mode and a video-mode with up to 30 fps, the camera represents an all-in-one solution for your THz setup.

Technical Specification

- 32 x 32 focal plane array
- Design center frequency 856 GHz
- Usable bandwidth: 0.1–4.0 THz
- 10 dB bandwidth: 0.3–2.0 THz
- 3 dB bandwidth: 0.75–1.0 THz
- Rv: 140 kV/W (856 GHz)
- MDP: min. 10–20 nW @856 GHz/30fps
- Chopped NEP: 100 pW/?Hz (856 GHz, 5 kHz chopping frequency, on SMA only)
- USB 2.0 port
- SMA connectors for trigger input/output option

Optical specification

- 40 dBi silicon lens (+/- 23 degree field of view at 856 GHz)

Specifications are subject to change without prior notice.

Reviews

There are yet no reviews for this product.

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