Equipped with IR-blocking THz filter

Image using QCL THz source

- Frequency: 4.6 THz
- Power: 0.6 Erreur W
- Integration time: 50 s
- Acquisition: Single shot

World-record features (different models)

- Pixel size: Down to 15 μm (smallest)
- Camera size: Coin size (smallest)
- Active area: > 29 x 16 mm (largest)
- Array size: > 1 M pixel (largest)

Specifications of the RIGI series

- Detector: Uncooled FPA micro-bolometer array
- Pitch: Varies starting from 15 μm
- Array size: Varies from 80 x 80 pixels to 1920 x 1080 pixels
- NEP per pixel: < 1.5 pW/Hz at 4.6 THz
- Sensitivity: < 1 THz : 18 THz
- Frame rate: 10 Hz, 30 Hz, 60 Hz
- Power supply: USB-powered
- Signal Output: Digital: USB 3.0
- Weight: < 200 g (small models)
- Dimensions: Approx. W 3cm x H 3cm x D 4 cm (small models)

Specifications of the THz filter

(by QMC Inc, UK)

- Cut-off Freq.: 1; 2; 3; 6; 9; 18 THz
- Average power transmission: > 80%
- Out-of-band transmission: < 0.1%

Application example

Simple THz imaging setup based on the Toptica PCA and RIGI camera

Compared to market alternatives, RIGI is distinguished by:

Much higher dynamic range, Much lower thermal drift

Note

Re-export outside Europe, Japan, and North America may require end-user certificate.