

DATASHEET RIGI DTMS2021

RIGI- S2 Camera



Uncooled real-time THz imager



- Beam profiling
- Non-destructive testing
- Imaging systems
- Quality control
- Security and surveillance
- Optical alignment

- Frequency: 4.6 THz
- Power: 0.6 u W
- Integration time: 50 µs
- Acquisition: Single shot

Image using QCL THz source

| Iten | n (| General Specifications | |
|-------|------------------|------------------------------|------|
| Detec | tor Uncoole | ed FPA THz micro-bolometer a | rray |
| Pitch | | 25 μm | |
| Array | , size | 160 x 120 pixels | |
| Activ | e area | 4 x 3 mm | |
| Opera | ating frequency | 0.1 - 20 THz | |
| Pixe | I NEP | < 1.5 pW/√Hz at 4.6 THz | |
| Oper | ating temperatur | re -40 °C to 65 °C | |
| Softv | ware Incli | uded and adaptable upon requ | ıest |
| | | | |

Compatible with most terahertz sources

1. Broadband terahertz sources

- Broadband plasma based source
- Organic crystal high power spectrometer
- Lithium Niobate crystal high power spectrometer
- ZnTe crystal based linear spectrometer
- Photoconductive switch oscillator based source
- Commercial time domain spectrometer

2. Narrowband terahertz sources

- QCL based source
- Solid state sources
- Crvstal based DFG source
- CO2-based DFG source