NeTHIS
New TeraHertz Imaging Systems

TeraCAM

High performance large field and wide band arrayed imaging systems

Product overview

The TeraCAM is a high-performance arrayed camera dedicated to broadband infrared and TeraHertz 2D and 3D imaging systems.

NeTHIS offers a cost-efficient and versatile device suited for innovative multi-spectral imaging processes of wide ranges of commercial and laboratory Infrared, TeraHertz sources from 0.1 to 3000 μm.

Multi-spectral versatile optical module implemented on cooled or uncooled thermal IR cameras

TeraHertz Tomography and imaging

Key benefits

- Large uncooled arrayed detection field
- Multi-spectral options (0.1 - 3000μm)
- UV, visible, SWIR, MWIR, LWIR and THz Imaging systems
- Suited for a large variety of laser sources

  Solid-state Lasers
  Fiber Lasers
  Quantum Cascade Lasers
  Gas and molecular lasers
  Electronic diodes (Gunn, IMPATT, TUNNETT)
  BWO
  Free Electron Laser

- Large detection field adapted for High-power lasers sources

Multispectral vision systems applied to R&D and industrial applications

- Physical parameter characterization
  (Strain, Fatigue , humidity, heat diffusion)

- MMW global inspection through insulating opaque materials
  (cracks, delamination, moisture...)

- Penetrating imaging of welding, gluing and attached systems

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Laboratory and industrial Infrared, TeraHertz and Sub-TeraHertz applications

- 2D and 3D spatial beam imaging and analysing
- CW and pulsed THz and sub-THz source optimisation
- THz and sub-THz 2D imaging and 3D tomography
- Multispectral source metrology

TeraCAM Specifications	
Spectral Range	0,1 - 30 THz (10μm - 3mm)
Sensitive detection area	70*70 mm²
Minimum resolution	0,1 mm
Minimum signal detection	<1 μW/cm² per pixel
Damage threshold	>1W/cm²
Software	Native Infrared software
Product size	200*200*300mm3
Working Temperature	Room Temperature
Supply Voltage	Sector Voltage 110/220V
Plug-in	IEEE1394 / Ethernet