



TACHYON 16k CAMERA

Uncooled MWIR 128x128 pixels infrared camera with high-speed frame rates up to 2000 images per second

Maximum added value and afordability to ensure a full integration in the **INDUSTRY 4.0 applications**

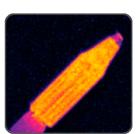
- Detector type: VPD PbSe FPA with digital interface, uncooled operation
- Array format: 128x128 (16384 pixels)
- Pixel size: 50 um x 50 um (square format)
- Spectral range: MWIR, 1.0 um to 5.0 um
- Peak wavelength of detection: 3.7 microns
- Integration time: 10 1000 µs, selectable
- Raw data communication, 14 bit
- Interfaces:
 - GigE VISION 2.0 with PoE
 - Multipurpose DI/DO connector (trigger IN/OUT)
- Frame rate: 2000 images per second (max) @ full frame (interlaced acquisition)
- ROI windowing function (faster frame rates, snapshot acquisition)
- Mechanical shutter for 1-pt offset correction
- Start-up time: < 10 seconds</p>
- Power supply: PoE, 8 W (non-PoE operation requires 12 VDC)
- Metal housing with rear connectors and tripod screw holes (M3 and M4)
- Dimensions and weight (without lens): 66 (L) x 62 (W) x 62 (H) (mm), 400 grams
- CS-mount optics interface, optics available:
 - ▶ 10.5° x 10.5°, f/1.1, 35 mm, manual focus (standard option)
 - 15.2° x 15.2°, f/1.2, 24 mm, manual focus
- Software included:
 - NIT SOFTWARE SUITE (Acquisition and visualization SW)
 - GenICam compatible for custom software programming
- Minimum temperature of detection: 100 °C
- Industrial applications: machine vision, additive manufacturing, industrial process monitoring, gas detection, spectroscopy, glass manufacturing quality assurance, UAV



Additive manufacturing monitoring



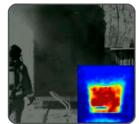
Manufacturing process control



Machine vision applications



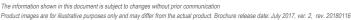
Gas and spectroscopy



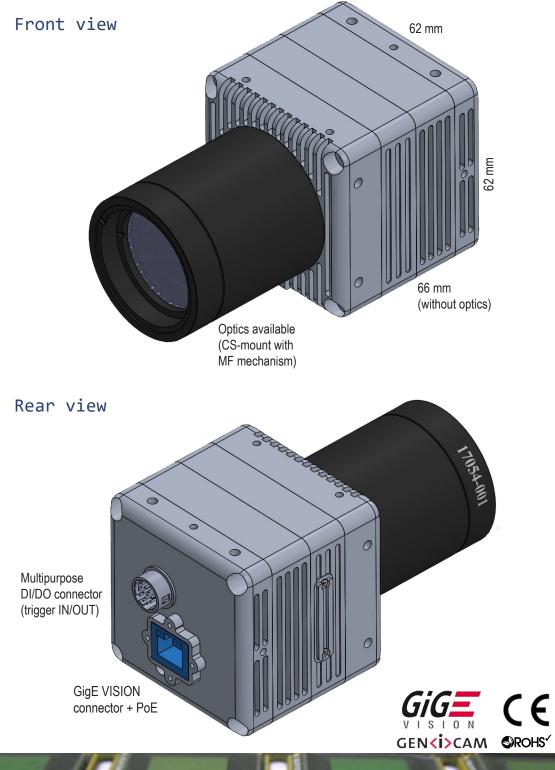
Fire detection



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> The information shown in this document is subject to changes without prior communication Product images are for illustrative purposes only and may differ from the actual product. Brochure release date: July 2017, ver. 2, rev. 20180116

Main facts

- Maximum added value and affordability
- Miniaturized compact size to ensure a full integration in the Industry 4.0 applications and Factories of the Future production lines

Typical applications

- Additive manufacturing
- Industrial process monitoring
- Machine vision
- Gas and flame detection
- Spectroscopy
- Glass manufacturing quality assurance
- ▶ *R+D*
- ► UAV

Industries of use

- Automotive industry
- Home appliance manufacturing
- Metallurgy and steel industry
- Petrochemical industry
- Glass manufacturing industry

