





TACHYON 16k CAMERA & TACHYON 16k CAMERA PLUS

Uncooled MWIR 128x128 pixels infrared camera with high-speed frame rates up to 4000 frames 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 μm to 5.0 μm
- ▶ Peak wavelength of detection: 3.7 microns
- ▶ Integration time: 10 1000 μs, selectable
- ▶ Raw data communication, 14 bit
- Interfaces:
 - ▶ GigE VISION 2.0 (GenlCam compatible) with PoE
 - ▶ Multipurpose DI/DO connector (trigger IN/OUT) (cable sold separately)
- ▶ Maximum frame rate: 4000 fps (TACHYON 16k CAMERA PLUS) (see table)
- ▶ ROI windowing function (see table for full description of possible modes)
- 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 (w/o optics): 66 (L) x 62 (W) x 62 (H) (mm), 400 grams
- Optics (standard option): f=35 mm, F#1.1, FoV 10.5° x 10.5°, AR coating (1 - 5 μm), manual focus with CS-mount interface
- Software included:
 - ▶ NIT SOFTWARE SUITE (Acquisition and visualization SW)
 - ▶ SDK available 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



Additive manufacturing monitoring



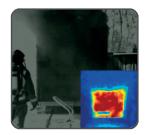
Manufacturing process control



Machine vision applications



Gas and spectroscopy



Fire detection



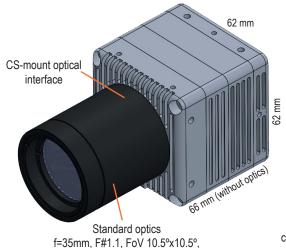


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Main specifications

	TACHYON 16k CAMERA	TACHYON 16ĸ CAMERA PLUS
MAXIMUM FRAME RATE	2000 frames per second @ 128×128	4000 frames per second @ 128×128 Allows higher frame rates using embedded ROI windowing functions
ACQUISITION MODE	128×128: Interlaced acquisition 64×64, 32×32, 1×128: Global shutter acquisition	All modes: Global shutter acquisition
WINDOWING MODES	128×128 64×64 (center of FPA) 32×32 (center of FPA) 1×128 (center of FPA)	Window position and dimensions: configurable via SW
NUC CORRECTION TABLES	Software correction	Hardware correction (4 preconfigured tables)
DATA TRANSMISSION MODES	RAW data, 14 bit	Selectable: – RAW data, 14 bit – NUC corrected, 16 bit – High-speed mode RAW/NUC: 12 bit

Front view



MF, AR coating (1-5 um)

Rear view



GEN<i>CAM SROHS

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

Industries of use

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



Glass manufacturing industry

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