TACHYON 1024 microCORE

Uncooled MWIR module with USB connection and 1 kHz frame rate

Optimized size and affordable cost to ensure a perfect integration in the production process: priced for cost sensitive machine vision applications!

- Electronic module with control and communications interface for TACHYON 1024 FPA
- FPA included with the module
- Band of detection: MWIR (1 - 5 microns)
- Peak wavelength of detection: 3.7 microns
- FPA resolution: 32x32 (1024 pixels)
- Shutter incorporated in the module for 1-pt offset correction
- Integration time: selectable via software (100 – 500 us)
- Maximum frame rate: 1000 Hz (slower rates are possible using longer integration times)
- Biasing voltage: selectable (1.00 V to 2.00 V)
- Communication interface: USB 2.0, high-speed (up to 480 Mbps)
- Data transmission: raw data, 10 bits
- USB powered
- Integrated module temperature sensor
- Dimensions of the electronic module (in mm): 43 (L) x 36 (W) x 17 (H)
- Software included: NIT SOFTWARE SUITE (Acquition and visualization SW)
- Minimum temperature of detection: 100 ºC
- Metal housing with CS-mount optics interface available
- Housing dimensions, in mm: 46.5 (L) x 39.5 (W) x 29.5 (H)
- DLL for custom software development available
- Accessory optics with CS-mount interface available

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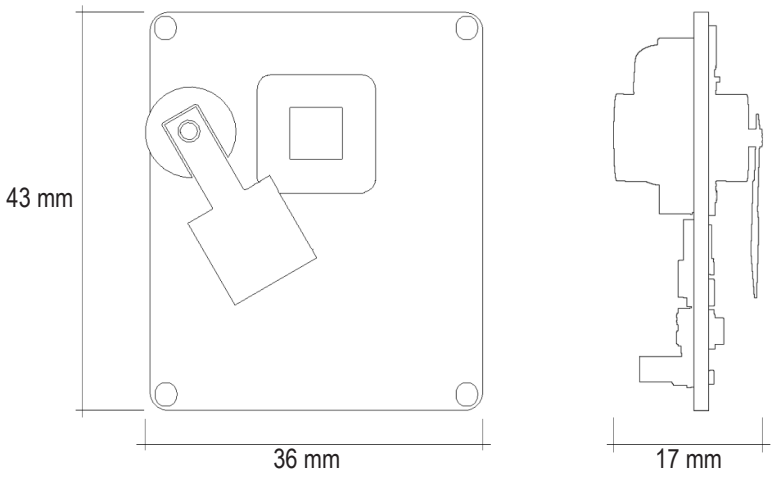
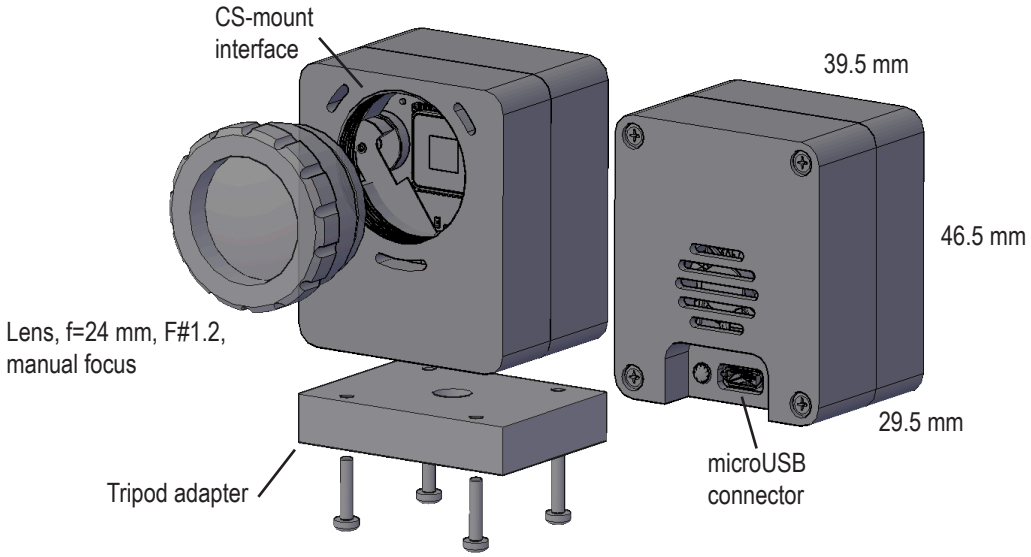
TACHYON 1024 microCORE module board



TACHYON 1024 microCORE with external housing and lens



Typical applications

- *Industrial manufacturing process control (welding, cutting, etc.)*
- *Laser process monitoring*
- *Gas and flame detection*
- *Machine vision*
- *OEM integration*

Industries of use

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

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