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
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