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 (no IP67-rated*)
▸ 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

*IP67-rated system available

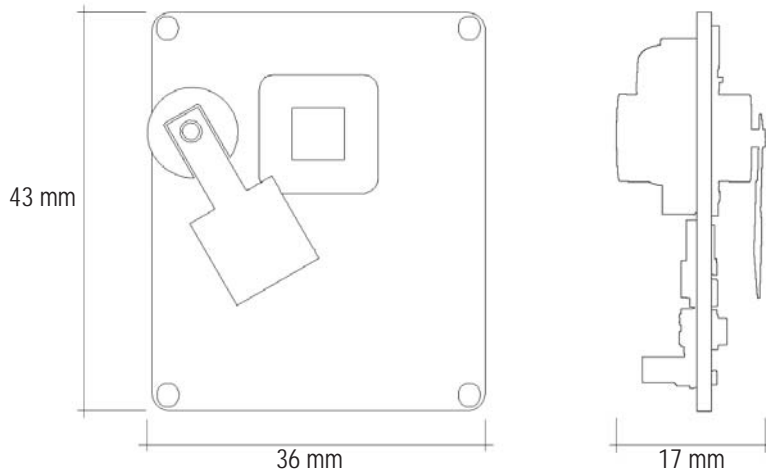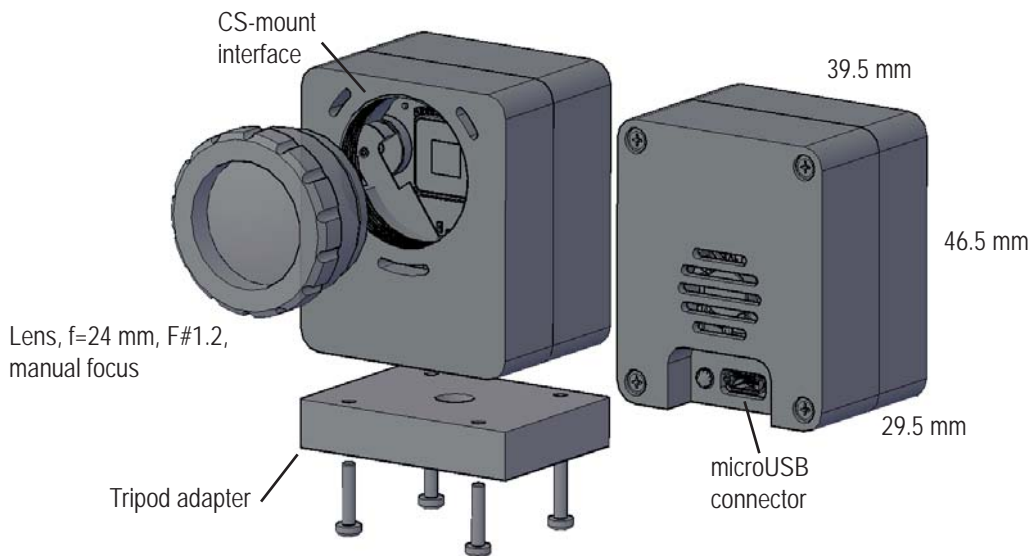info@amstechnologies.com
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Contact us 👆

NIT
New Infrared Technologies

TACHYON 1024 microCORE
module board

43 mm

36 mm

17 mm

TACHYON 1024 microCORE
with external housing and lens

CS-mount
interface

39.5 mm

46.5 mm

Lens, f=24 mm, F#1.2,
manual focus

29.5 mm

Tripod adapter

microUSB
connector

No IP67-rated / For IP67-rated system contact us

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*

NIT
New Infrared Technologies