

LUXELL CORE-S front view



LUXELL CORE-S rear view



LUXELL CAMERA-S

# LUXELL CORE-S LUXELL CAMERA-S (IP67)

Linear uncooled MWIR readout module with USB output

Affordable solution for direct integration in the production line (IP67-rated)

- Electronic plug-and-play readout module for linear LUXELL FPA 256 px (included)
- Resolution: 256 px (pixel size: 60 um, pixel height: 600 um)
- Band of detection: MWIR (1 5 microns)
- > Peak wavelength of detection: 3.7 microns
- Integration time: 4 20 μs, selectable
- Minimum temperature of detection: 100 °C
- Maximum scanning rate: 300 lines per second (@minimum integration time)
- Mechanical shutter for 1-pt offset
- Start-up time: < 5 seconds
- Communication interface: USB 2.0 full speed
- > Data transmission: raw data, 14 bits
- Power: 1W (USB powered, 5 VDC, 200 mA)
- CORE-S dimensions (in mm) / weight (grams): 56.0 (L) x 44.5 (W) x 41.5 (H) / 60 g
- CAMERA-S mechanical housing:
  - Alluminum housing, with CS-mount optics interface, rear USB connector (industrial M12x1, mini-USB, IP67-rated), tripod screw hole and water block
  - Housing dimensions, in mm: 70.0 (L) x 72.5 (W) x 50.0 (H)
  - IP67-rated when assembled properly with IP67-rated lens
- CAMERA-S lens:
  - CS-mount, f=35 mm, F#1.1, FoV = 25°(h) x 1°(v) (dettachable)
  - Field of Regard (@1m) = 440 mm(h) x 17 mm(v)
- CAMERA-S size with housing, water block and lens: 70.0 (L) x 131.5 (W) x 50.0 (H)
- CAMERA-S weight (grams): 400 g
- Software included:
  - NIT SOFTWARE SUITE (Acquisition and visualization SW), LabVIEW SDK
- Industrial applications: industrial welding process monitoring, laser manufacturing process monitoring, machine vision, spectroscopy, glass manufacturing



Industrial process control (welding, cutting, etc)



Laser process monitoring



Spectroscopy and gas detection



Glass manufacturing quality assurance





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## LUXELL CORE-S module





All dimensions in mm

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- (CORE-S compatible)Dimensions (mm): 24x24x2.2
- Biasing voltage (typ): 5 V
- Pixel resistance (typ): 0.2 1.0 MΩ
- Packaging: SMD / LCC68 footprint
- Pinout: 68 pins (32 in use)

### 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

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

### Industries of use

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



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Peak detection wavelength: 3.7 um

D\* (WLpeak) (typ): 2x10<sup>9</sup> Jones

Silicon window with AR coating

Response time: 2 us

Pixel pitch: 60 um

Pixel size: 600 x 60 um<sup>2</sup>

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