

# Product brief

# **EVK HELIOS EC32**

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# EVK HELIOS EC32

## 320-Pixel Hyperspectral Imaging Core Camera

- Line-scan camera with optically corrected spectral data output
- 320 pixels spatial sensor resolution
- Operates in the wavelength band from 930 nm to 1700 nm

**Description** The EVK HELIOS EC32 is a push-broom hyperspectral imaging camera, delivering optically corrected and spatially resolved spectral data. The camera features non-contact and non-destructive, real time infrared imaging spectroscopy for the identification of material types in industrial applications.

In combination with the EVK ALPHA G100 edge computing platform, EVK HELIOS EC32 camera features a powerful system for in-line analysis and monitoring of product streams in a range of industries.

- Key features**
- Comprises a 256 x 320 px Sensor / Calibrated output 248 x 312 px
  - Optically distortian corrected, spectrally calibrated, intensity callibrated
  - Excellent SNR of 3.500 at a nominal spatial resolution of 320 pixels
  - Scan rate of 446 Hz at full spectra (248 spectral bands) up to 3.8 kHz using ROI
  - Rugged industrial design
  - Protection rating IP54
  - Temperature range 0°C to 45°C with full optical stability
  - Suitable for in-line classification, metrology, and sorting (in combination with EVK ALPHA product family)

- Client benefits**
- Hyperspectral imaging camera for real-time, in-line operations
  - Plug and play: No external calibration necessary
  - Compact and rugged design

- Typical applications\***
- Removal of foreign bodies in food processing industries
  - Material type determination in plastic sorting
  - Measurement of material quality in waste management
  - In-line quantitative analysis of analyte concentrations in production processes

\* In combination with EVK ALPHA Products

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