# Product brief
# EVK HELIOS EC32

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# EVK HELIOS EC32

## Hyperspectral Imaging Core Camera for Industrial Applications

- 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 core camera that identifies different materials based on their chemical composition in a completely contactless and non-destructive way. EVK HELIOS EC32 provides spectral data, allowing customers to use their specific data analysis tools or to combine it with the EVK ALPHA edge computing platform. Together they are a powerful system for inline analysis, monitoring and sorting of industrial product streams in real-time.

**Key features**

- Comprises a 256 x 320 px Sensor / Calibrated output 248 x 312 px
- Optical distortion corrected, spectrally calibrated, intensity calibrated
- 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

**Client benefits**

- Hyperspectral imaging camera for real-time, inline 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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