

# Product brief

# **EVK HELIOS**

# **NIR G2-320**

Vo2-22-EN



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# EVK HELIOS NIR G2-320

## 320-Pixel Hyperspectral Imaging Camera with an integrated Classification System

- Real-time hyperspectral imaging system
- Operates in the wavelength band from 930 nm to 1700 nm
- Optically distortian corrected, spectrally calibrated, intensity callibrated
- Delivers a classified data stream for sorting applications

**Description** The EVK HELIOS NIR system analyses chemical properties of objects and makes distinction of material types not visible to colour cameras. The internal processing engine delivers qualitative and quantitative information of material streams e.g. analyte concentrations or material compositions. The camera is delivered with a full internal calibration as a plug and play component. The system is optimized for real industrial environments and delivers stable calibrated data over the full specified temperature range.

- Key features**
- Operates in Near Infrared (NIR) wavelength range from 0.93 to 1.7  $\mu\text{m}$
  - Scan rate of 446 Hz at full spectra (248 spectral bands) up to 3.8 kHz using ROI
  - GigE Vision GenICam interface
  - Rugged industrial design. Protection rating IP54
  - Temperature range 0°C to 40°C with full optical stability
  - Optical system optimized for sorting applications
  - Seamless integration with EVK SQALAR software suite

- Client benefits**
- Internal camera calibration - no on-site calibration necessary
  - Embedded data classification - no need for external PC
  - Real-time imaging system for inline operation
  - Rugged industrial design for use in harsh environments

- Typical applications**
- Recycling of plastic
  - Recycling of wood
  - Sorting of mineable
  - Sorting and analysing of food
  - Foreign body detection
  - Sorting of C&D waste

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