

# EVK HELIOS NIR G2-320-Core

## 0.9-1.7 $\mu$ m hyperspectral imaging system

- Real-time hyperspectral imaging system
- 320 pixels spatial resolution in NIR wavelength band
- High quality optically corrected spectra
- Raw data stream



### Description

The EVK HELIOS hyperspectral imaging camera is a powerful detection system, based on non-contact and non-destructive infrared imaging spectroscopy. The HELIOS NIR G2-320 -Core delivers a spectral data stream for analyzing and monitoring applications in-line and at-line.

### Customer Benefits:

- Internal camera calibration
- Real-time imaging system for in-line operation
- Rugged industrial design for use in harsh environments

### Key Features

- Operates in Near Infrared (NIR) wavelength range from 0.9 - 1.7  $\mu$ m
- Spatial resolution of 320 at
- Scan rate of 500 Hz
- GigE Vision interface
- Rugged industrial design according to IP54 class

### Typical Applications

- Recycling of plastic
- Recycling of wood
- Sorting of minable ore
- Sorting and analyzing of food
- Foreign body detection
- Sorting of C&D waste

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## Technical Data

Spectral range	(929 ± 2 - 1702 ± 2) nm
Line scan rate	446 Hz full frame
Spectral resolution	9 nm
Spectral sampling	3.1 nm
Spatial resolution	320 pixels
Pixel size	30 x 30 µm
Optical coupling	C-mount lens
Slit	100 µm
Interfaces	GigE Vision (GV)
Trigger input	RS-485
Dimensions without lens	220 x 155 x 330 mm
Weight	approx. 9.5 kg
Power supply	+24V DC ±15%
Power consumption	max. 4A, typically 2A
Protection rating	IP54
Operating temperature	0 to +40 °C
Storage temperature	-25 to +75 °C
Humidity	8 to 80 %
Data output	12-bit spectral data
HELIOS system configuration	Calibrated spectral data

## Order Information

Product	Order Number
HELIOS NIR G2 320 - Core GigE Vision	AGB-18002

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