

Product brief

EVK ALPHA G100

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EVK ALPHA G100

Real-Time Processing Platform for Spectral Imaging

- Single-input embedded computing platform for classification of hyperspectral data
- GigE Vision compliant
- Supports EVK HELIOS hyperspectral imaging core cameras

Description EVK ALPHA G100 is a real-time, embedded processing platform for classification of hyperspectral data. Together with an EVK HELIOS hyperspectral imaging core camera, the system supports up to 100 material classes for identification of material types in industrial sorting and process-monitoring applications.

The EVK ALPHA G100 features an optimized spectral imaging system for a single, GigE Vision / GenICam compliant hyperspectral imaging sensor. The platform supports all EVK market-proven data processing functions for qualitative analysis such as CLASS, EC3 and Combined Features, as well as EVK quantitative chemical imaging algorithm QCI.

- Key features**
- Real-time, embedded PC Platform
 - GigE Vision GenICam compliant input/output data
 - Supports EVK CLASS, EC3, CF and QCI algorithms
 - Compact form factor
 - Rugged industrial design
 - Temperature Range from 20°C to 60°C
 - Suitable for in-line classification, metrology, and sorting (in combination with EVK HELIOS EC32)

- Client benefits**
- Real-time, spectral imaging edge computing platform for in-line operations
 - Supports up to 100 material classes
 - Rugged design for applications in industrial sorting and monitoring

- 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 HELIOS hyperspectral imaging cameras

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