Open eVision is a rich suite of reliable, powerful and flexible software tools dedicated to image processing and analysis. Open eVision contains a set of 64-bit and 32-bit libraries designed to be integrated into your C++, .NET or ActiveX application. The general purpose libraries, EasyImage, EasyColor, EasyObject, EasyMatch, EasyFind and EasyGauge cover applications such as image filtering and enhancement, blob analysis, pattern matching, alignment and metrology. The mark inspection libraries, EasyOCV, EasyOCR, EasyBarCode, EasyMatrixCode and EasyQRCode, include functions for optical character recognition, character printing inspection and 1d / 2d barcode reading.

Image Analysis Software Tools

Open eVision is a rich suite of reliable, powerful and flexible software tools dedicated to image processing and analysis. Open eVision contains a set of 64-bit and 32-bit libraries designed to be integrated into your C++, .NET or ActiveX application. The general purpose libraries, EasyImage, EasyColor, EasyObject, EasyMatch, EasyFind and EasyGauge cover applications such as image filtering and enhancement, blob analysis, pattern matching, alignment and metrology. The mark inspection libraries, EasyOCV, EasyOCR, EasyBarCode, EasyMatrixCode and EasyQRCode, include functions for optical character recognition, character printing inspection and 1d / 2d barcode reading.

EasyImage™
Image Processing Library
Convolution and morphology | Geometric transformations | Image statistics | 16-bit accuracy processing | Flexible masks | Interest point detectors

EasyColor™
Color Image Analysis Library
Fast conversion to 11 color spaces | Color segmentation | Color verification

EasyObject™
Blob Analysis Library
Image segmentation | Object labeling | Geometric feature extraction | High performance, especially for large images and images with numerous objects | Flexible masks

EasyMatch™
Pattern Matching Library
Normalized correlation method | Sub-pixel accuracy | Rotation and scaling support | Multiple pattern occurrences | Gray-level and color images support | Non-square pixels management | Don’t care areas

EasyFind™
Geometric Pattern Matching Library
Feature point technology | Fully automatic, fast and robust | Rotation and scaling invariant | High tolerance to pattern degradation | Don’t care areas | User-defined pivot point | Fast processing and improved robustness

EasyGauge™
Sub-pixel Measurement and Dimension Control Library
Sub-pixel point location and edge fitting | Highly accurate and robust | Position, orientation, size, curvature, distances | Advanced and automatic calibration | Multiple gauge models | Gauge Grouping | Graphical model edition

EasyOCV
Mark Inspection Library
Optical character recognition

EasyOCR
Mark Inspection Library
Character printing inspection

EasyBarCode
Mark Inspection Library
1d / 2d barcode reading

EasyMatrixCode
Mark Inspection Library

EasyQRCode
Mark Inspection Library
QR code reading

New:
- EasyQRCode, robust QR code reading library with automatic and extensive decoding
- Support for the latest C++ builder and delphi IDEs

Copyrigh 2014 Euresys s.a. Belgium. Euresys® is a registered trademark of Euresys s.a. Belgium. Other product and company names listed are trademarks or trade names of their respective manufacturers. Euresys reserves the right to modify product specifications and price without previous notice.
REGIONS OF INTEREST AND FLEXIBLE MASKS

The processing speed of an image can be accelerated by focusing on a specific region of the image (Region of Interest, ROI) avoiding interferences from the remainder of the image. The processing of all Open eVision functions can be restricted to a ROI. Open eVision supports nested rectangular ROIs, which are organized in a hierarchical way in each image. To add flexibility to the shape of the ROI, Open eVision supports Flexible Masks for selected functions of the EasyObject and EasyImage libraries. A mask represents a two-class segmentation of pixels which separates the associated image in do-care areas (that must be considered) and don’t-care areas (that should not be considered). Flexible masks support complex and disconnected shapes.

OPEN TO ALL IMAGE SOURCES

The Open eVision libraries do not rely on any proprietary hardware device to run. They are able to process images available in the host memory, whatever their origin. The images to be processed may come from a frame grabber, a scanner, a file, or IEEE1394 (Firewire), GigE Vision or USB cameras. Color and monochrome images are supported.

Choose the most suitable and attractive offer for your application among a large choice of products. Libraries can be purchased individually, in cost saving bundles or in an SDK. No development license is required! Open eVision licenses are available as software-based licences (linked to a PC platform), USB dongle-based licenses or parallel dongle-based licenses.

For more information contact sales@euresys.com