

EasyBarCode

Bar code reading library



At a Glance

- Automatic detection of the barcode in the image
- Automatic detection of the symbology
- Very fast and robust
- Full support of numerous symbologies
- Mail Barcode Reader
- Multiple codes reading
- Grading according to ISO/IEC 15416

Benefits

New in Open eVision 24.02

EasyFind : Significant speed increase, without any loss of accuracy.

EasyImage

- New Gabor filtering function to help with texture analysis and edge detection.
- New inverse circle warp function, providing conversion between polar and cartesian coordinates.

Easy: Improved off-screen rendering on all platforms.

Admin: Simplified version upgrade procedure with version numbers removed from filenames.

Open eVision Studio: Evaluation, prototyping and development tool

Open eVision Studio is the evaluation, prototyping and development tool of Open eVision. Its intuitive graphical user interface allows you to call and immediately see the result of any of eVision's 2D image processing functions. A scripting functionality generates the corresponding code, which can then be copied and pasted into your application.

Open eVision Studio is free (when using Open eVision 2.0 and above) and does not require any license.

Just click on DOWNLOAD OPEN EVISION STUDIO and install Open eVision. Sample images, manuals and sample programs are included.

EasyBarCode description

EasyBarCode is a library designed to automatically locate and read bar codes. Bar codes encode short character string and are widely used for marking and identifying goods.

EasyBarCode is able to identify and read a wide range of standard commonly-used symbologies as well as special symbologies. EasyBarCode automatically locates the bar code symbol in the image and supports code rotation. Moreover for prototyping or special cases, an advanced manual location mode is also available.

New in Open eVision 23.12

Import of standard datasets into Deep Learning Studio

- Import of COCO Json dataset for EasyLocate or EasySegment Supervised
- Import of YOLO TXT annotations for EasyLocate
- Import of Pascal VOC XML annotations for EasyLocate

EasySpotDetector (Beta release, contact us for more information)

- A single API and license for the alignment of region of interest, surface defect detection (particles, scratches,...) and classification with a custom trained Deep Learning classifier.
- Realtime processing for inline surface inspection

Supported barcode symbologies

- Codabar, Code 128, Code 25 Interleaved
- Code 39, EAN 128, EAN 13
- MSI, UPC A, UPC E
- Binary Code, Code ABC Anker, Code BC 412, Code 11, Code 25 (DataLogic, Matrix, IATA, Industry, Compressed, Inverted)
- Code 32, Code 39 Extended Reduced, Code 93, Code 93 Extended, Code BCD Matrix, Code CIP, Code STK
- EAN 8, IBM Delta Distance A, Plessey, Telepen
- 4-state Mail Barcode (Japanese and US Mail)
- Pharmacode One Track
- GS1 symbology

ECodeReader: More codes in one scan

ECodeReader simplifies the process of reading multiple codes and types within the same image by integrating EasyMatrixCode2, EasyBarCode2 and EasyQRCode into a single, simple, and unified interface.

In some applications, reading multiple code types is a requirement. Doing so, required until now, the use of multiple Code Readers (i.e. one per code type).

ECodeReader simplifies that process by integrating the power of EasyMatrixCode2, EasyBarCode2 and EasyQRCode into a single, simple, and unified interface.

With ECodeReader, you can thus read Barcodes, Data Matrix codes and QR codes with a single method call.

Note: ECodeReader requires the EasyMatrixCode, EasyBarCode and EasyQRCode licenses.

Barcode grading with EasyBarCode2

EasyBarCode2 offers the grading of bar codes according to ISO/IEC15416 for the Ean13, Code128 and Gs1-128 symbologies.

The following standardized criteria are evaluated and rated A to F (or 40 to 0)

- Decode
- Symbol Contrast
- Minimum Reflectance
- Minimum Edge Contrast
- Modulation
- Defects
- Decodability
- Add'l Requirements

And a Global Rating is provided.

Neo Licensing System

- Neo is the new Licensing System of Euresys. It is reliable, state-of-the-art, and is now available to store Open eVision and eGrabber licenses.

- Neo allows you to choose where to activate your licenses, either on a Neo Dongle or in a Neo Software Container. You buy a license, you decide later.
- Neo Dongles offer a sturdy hardware and provide the flexibility to be transferred from a computer to another.
- Neo Software Containers do not need any dedicated hardware, and instead are linked to the computer on which they have been activated.
- Neo ships with its own, dedicated, Neo License Manager, which comes in two flavours: an intuitive, easy to use, Graphical User Interface and a Command Line Interface that allows for easy automation of Neo licensing procedures.

All Open eVision libraries are available for Windows and Linux

- Microsoft Windows 11, 10, 8.1, 7 for x86-64 (64-bit) processor architecture
- Linux for x86-64 (64-bit) and ARMv8-A (64-bit) processor architectures with a glibc version greater or equal to 2.18

Applications

Machine Vision for the General Manufacturing Industries

- Product identification for traceability
- Code quality verification for label printing machines

Machine Vision for the Printing Industry

- Label and packaging inspection: Inspection of the quality of the printing of characters and codes

Specifications

Software

Host PC Operating System	<ul style="list-style-type: none"> • Open eVision is a set of 64-bit libraries that require an Intel compatible processor with the SSE4 instruction set or an ARMv8-A compatible processor. • Open eVision can be used on the following operating systems: <ul style="list-style-type: none"> – Microsoft Windows 11, 10, 8.1, 7 for x86-64 (64-bit) processor architecture – Linux for x86-64 (64-bit) and ARMv8-A (64-bit) processor architectures with a glibc version greater or equal to 2.18 • Remote connections <ul style="list-style-type: none"> – Remote connections are allowed using remote desktop, TeamViewer or any other similar software. • Virtual machines <ul style="list-style-type: none"> – Virtual machines are supported. Microsoft Hyper-V, Oracle VirtualBox and libvirt hypervisors have been successfully tested. – Only the Neo Licensing System is compatible with virtualization. • Minimum requirements: <ul style="list-style-type: none"> – 2 GB RAM to run an Open eVision application – 8 GB RAM to compile an Open eVision application – Between 100 MB and 2 GB free hard disk space for libraries, depending on selected options.
APIs	<ul style="list-style-type: none"> • Supported Integrated Development Environments and Programming Languages: <ul style="list-style-type: none"> – Microsoft Visual Studio 2017 (C++, C#, VB .NET, C++/CLI) – Microsoft Visual Studio 2019 (C++, C#, VB .NET, C++/CLI) – Microsoft Visual Studio 2022 (C++, C#, VB .NET, C++/CLI) – QtCreator 4.15 with Qt 5.12

Ordering Information

Product code - Description	<ul style="list-style-type: none">• 4010 - EasyBarCode for USB dongle• 4060 - EasyBarCode for PAR dongle• 4110 - EasyBarCode for board licensing• 4160 - Open EasyBarCode for USB dongle• 4210 - Open EasyBarCode for PAR dongle• 4310 - Open eVision EasyBarCode
Optional accessories	<ul style="list-style-type: none">• 6512 - eVision/Open eVision USB Dongle (empty)• 6513 - eVision/Open eVision Parallel Dongle (empty)• 6514 - Neo USB Dongle (empty)



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