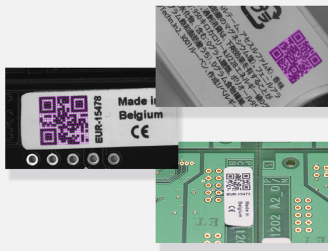


EasyQRCode

QR code reading library



At a Glance

- Automatic detection of the code in the image
- Decodes model 1 and model 2 QR codes, all versions, all levels
- Decodes Micro QR codes
- Very fast operation
- Impressive robustness to noise, blur and distortion
- Error detection and correction
- Rotation and flipping invariant
- Print quality verification with grading standards
- Multiple codes reading

Benefits

New in Open eVision 22.08

- EasyLocate Interest Point : New working mode (alternative to EasyLocate Axis Aligned Bounding Box) simplifying the annotation of the dataset and the configuration of the tools when all objects have the same size. A single click is enough to annotate an EasyLocate Interest Point object.
- EasyGauge : New Polygon Gauge in addition to Point, Line, Rectangle, Circle and Wedge gauges.
- Deep Learning tools now supporting GPU processing on NVIDIA Jetson.
- Faster compilation time with simplified C++ headers and reduced calling cost to the Open eVision API.

New in Open eVision 22.04

All Open eVision libraries are now also available for embedded ARM devices.

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.

EasyQRCode Description

QR codes are 2D bar codes. They are widely used for their fast readability, high reliability and their large storage capacity compared to ordinary barcodes.

EasyQRCode is a robust QR code reading library for industrial applications such as part identification and product or time tracking. These applications typically require the fast and reliable decoding of variable-content QR codes.

Automatic extensive decoding

The following code types are supported:

- Data: Kanji, numeric, alphanumeric, byte and mixed FNC1
- Model 1 QR Codes, all versions (1-14), all levels
- Model 2 QR Codes, all versions (1-40), all levels

DPM - Direct Part MarksDPM

EasyQRCode algorithms have been specifically optimized to read direct part marks. They support the low contrast and distorted codes resulting from dot peening, laser marking, ink jet printing or electro-chemical etching on various materials.

Print quality verification

EasyQRCode inspects the quality of the QR code and computes indicators as defined by the ISO/IEC 15415 and ISO/IEC TR 29158 standards.

Also for Micro QRCodes

Open eVision can also detect and decode Micro QR Codes using its EQRCodeReader class.

A more compact version of the regular QR Code, used when less data need to be encoded.

Check it with the latest revision of Open eVision Studio & sample programs.

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

- Windows 7 to Windows 10 x86 (32-bits) and x86-64 (64-bits)
- Windows 11 x86-64 (64-bits)
- Linux 64 bits (x86-64 and ARMv8-A) with a glibc version 2.18 or newer

Applications

Machine Vision for the Electronic Manufacturing Industry

- High speed image acquisition for AOI, 3D SPI, 3D lead/ball inspection machines.
- Very high resolution line-scan image acquisition for Flat Panel Display inspection and solar cell inspection
- Mark inspection

Machine Vision for the General Manufacturing Industries

- High frame rate image acquisition for inspection machines
- Line-scan image acquisition for surface inspection machines
- Line-scan image acquisition for textile inspection
- Product identification for traceability
- Code quality verification for label printing machines

Machine Vision for the Printing Industry

- High speed line-scan image acquisition for printing inspection machines
- Label and packaging inspection: Inspection of the quality of the printing of characters and codes

Video Acquisition and Recording

- High-frame-rate video acquisition for motion analysis and recording

Specifications

Software

Host PC Operating System

- Open eVision is a set of 32-bit and 64-bit libraries that require an Intel compatible processor with the SSE4 instruction set or an ARMv8-A compatible processor.
 - The Deep Learning Bundle is only available in the 64-bit Open eVision library.
 - Open eVision can be used on the following operating systems:
 - Windows 11 (64-bits)
 - Windows 10 (32- and 64-bits)
 - Windows 8 (32- and 64-bits)
 - Windows 7 (32- and 64-bits)
 - Linux 64 bits (x86-64 and ARMv8-A) with a glibc version greater or equal to 2.18
 - Since Open eVision 2.6, discontinued support of:
 - Windows Vista 32-bits Service Pack 1
 - Windows XP 32-bits Service Pack 3
 - Windows Embedded Standard 2009 32-bits
 - Remote connections
 - Remote connections are allowed using remote desktop, TeamViewer or any other similar software.
 - Virtual machines
 - Linux virtual machines are supported. Microsoft Hyper-V and Oracle VirtualBox hypervisors have been successfully tested.
 - Windows virtual machines are not supported.
 - Minimum requirements:
 - 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.
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APIs

- Supported Integrated Development Environments and Programming Languages:
 - Microsoft Visual Studio 2008 SP1 (C++, C#, VB .NET, C++/CLI)
 - Microsoft Visual Studio 2010 (C++, C#, VB .NET, C++/CLI)
 - Microsoft Visual Studio 2012 (C++, C#, VB .NET, C++/CLI)
 - Microsoft Visual Studio 2013 (C++, C#, VB .NET, C++/CLI)
 - Microsoft Visual Studio 2015 (C++, C#, VB .NET, C++/CLI)
 - 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
- Since Open eVision 2.5.1, discontinued support of:
 - Borland C++ Builder 6.0 update 4 (C++)
 - CodeGear Delphi 2009 (Object Pascal)
 - CodeGear C++ Builder 2009 (C++)
 - Microsoft Visual Studio 6.0 SP6 (C++, Basic)
 - ActiveX API
- Since Open eVision 2.4.1, discontinued support of:
 - Embarcadero RAD Studio XE4 and XE5 (C++, Object Pascal, 32 bits only)

Ordering Information

Product code - Description

- 4175 - Open EasyQRCode for USB dongle
- 4225 - Open EasyQRCode for PAR dongle
- 4275 - Open EasyQRCode for soft-based licensing
- 4325 - Open eVision EasyQRCode

Optional accessories

- 6512 - eVision/Open eVision USB Dongle (empty)
 - 6513 - eVision/Open eVision Parallel Dongle (empty)
 - 6514 - Neo USB Dongle (empty)
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