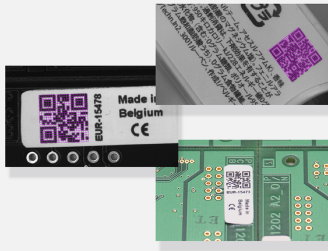# EasyQRCode

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
- Very fast operation
- Impressive robustness to noise, blur and distortion
- Error detection and correction
- Rotation and flipping invariant

## Benefits

### 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.

### Neo, a New, Flexible Licensing System

- Neo is the new Licensing System of Euresys. It is reliable, state-of-the-art, and is available now under Windows.
- Neo allows you to choose where to activate your license, 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 PC to another.
- Neo Software Containers do not need any dedicated hardware, and instead are linked to the PC 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.

## 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><li>Open eVision is a set of 32-bit and 64-bit libraries that require a processor compatible with the SSE2 instruction set.</li><li>Deep Learning Bundle is only available in the 64-bit Open eVision library.</li><li>Open eVision can be used on the following operating systems:<ul><li>Windows 10 (32- and 64-bits)</li><li>Windows 8 (32- and 64-bits)</li><li>Windows 7 (32- and 64-bits)</li></ul></li><li>Since Open eVision 2.6, discontinued support of:<ul><li>Windows Vista 32-bits Service Pack 1</li><li>Windows XP 32-bits Service Pack 3</li><li>Windows Embedded Standard 2009 32-bits</li></ul></li><li>The Open eVision installer does not allow installation on virtual machines.</li><li>Minimum requirements:<ul><li>RAM: 8 GB</li><li>Display size: 800 x 600. 1280 x 1024 recommended.</li><li>Color depth: 16 bits. 32 bits recommended.</li><li>Between 100 MB and 2 GB free hard disk space for libraries, depending on selected options.</li></ul></li></ul> |
| --- | --- |

| 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) |
| | • 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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