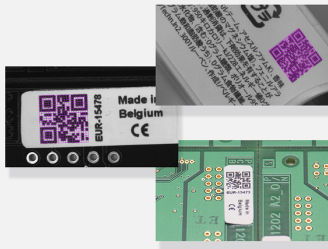# EasyQRCode

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 functions. A scripting function 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 can be downloaded to evaluate the performance of Open eVision.

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.

Choose the most suitable Licensing System

- Open eVision Dongle-based Licenses: Dongle-based Licenses offer the flexibility to be transferred from a PC to another. To purchase a Dongle-based License, select one of the Euresys dongles (USB or Parallel) plus the license(s) to be stored on this dongle. Licenses are delivered as activation codes, which are stored on the dongles.

- Open eVision Software-based Licenses: Software-based licenses do not require any dongle, they are linked to the PC on which they have been activated. Licenses are delivered as activation codes and can be managed online.

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	- Open eVision is a set of 32-bit and 64-bit libraries that require a processor compatible with the SSE2 instruction set.
	- The EasyDeepLearning library is only available in the 64-bit Open eVision library.
	- Open eVision can be used on the following operating systems:
	  – Windows 10 (32- and 64-bits)
	  – Windows 8 (32- and 64-bits)
	  – Windows 7 (32- and 64-bits)
	- 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
	- The Open eVision installer does not allow installation on virtual machines.
	- Minimum requirements:
	  – RAM: 8 GB
	  – Display size: 800 x 600. 1280 x 1024 recommended.
	  – Color depth: 16 bits. 32 bits recommended.
	  – Between 100 MB and 2 GB free hard disk space for libraries, depending on selected options.

APIs	- Supported Integrated Development Environments and Programming Languages:
	  – Microsoft Visual Studio .NET 2003 SP1 (C++)
	  – Microsoft Visual Studio 2005 SP1 (C++, C#, VB .NET, C++/CLI)
	  – 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 2.6, discontinued support of:
	  – Microsoft Visual Studio 6.0 SP6 (C++, Basic)
	  – Borland C++ Builder 6.0 update 4 (C++)
	  – CodeGear C++ Builder 2009 (C++)
	  – CodeGear Delphi 2009 (Object Pascal)
	  – Embarcadero RAD Studio XE4 (C++, Object Pascal)
	  – Embarcadero RAD Studio XE5 (C++, Object Pascal)

Ordering Information

Product code - Description	• 4175 - Open EasyQRCode for USB dongle
	• 4225 - Open EasyQRCode for PAR dongle
	• 4275 - Open EasyQRCode for soft-based licensing
Optional accessories	• 6512 - eVision/Open eVision USB Dongle (empty)
	• 6513 - eVision/Open eVision Parallel Dongle (empty)

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