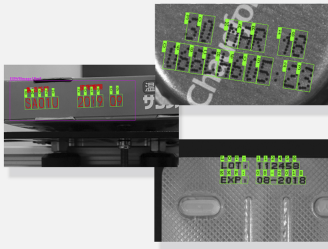# EasyOCR

Optical character recognition library

At a Glance

- Teachable character recognition for the most reliable and fastest recognition
- Invariant to character size
- Tolerant to poorly printed, broken characters
- "Connected" characters separation
- Pre-defined fonts included

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.

EasyOCR Description

EasyOCR is a font-dependent printed character reader based on a template matching algorithm. It has been designed to read any kind of short text (part numbers, serial numbers, expiry dates, manufacturing dates, lot codes, …) printed on labels or directly on parts.

Training

EasyOCR requires training the font to be recognized. It is able to learn from sample images all possible characters to be read. This makes the recognition extremely flexible, fast and reliable.

The training phase involves an interactive application used to show samples of the characters and allow the library to learn and store them in a font file. Moreover, EasyOCR provides the means for you to write your own, custom, font editor.

EasyOCR also comes with three standard pre-learnt font files for the standard OCR-A, OCR-B and Semi fonts.

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.

Applications

Machine Vision for the General Manufacturing Industries
- Product identification for traceability

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. - Deep Learning Bundle 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 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	• 4005 - EasyOCR for USB dongle
	• 4055 - EasyOCR for PAR dongle
	• 4105 - EasyOCR for board licensing
	• 4155 - Open EasyOCR for USB dongle
	• 4205 - Open EasyOCR for PAR dongle
	• 4255 - Open EasyOCR for soft-based licensing
	• 4305 - Open eVision EasyOCR
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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Empowering Computer Vision

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EasyOCR - 2021-02-25 05:03