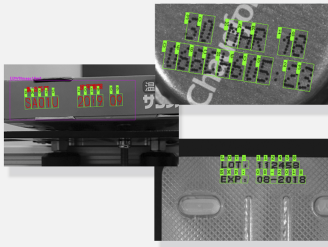EURESYS™
Excellence in vision

NEW

EasyOCR2

Industrial Optical Character Recognition Library

At a Glance

- Optimized for reading short texts such as part numbers, serial numbers, expiry dates, manufacturing dates, lot codes, …
- Innovative segmentation algorithm to automatically locate texts in the image based on expected character size and text topology
- Full support for text rotation (360 degrees)
- Able to read severely degraded characters: support for character fragmentation and uneven lighting
- Learning of character database from one or multiple TrueType Font (ttf) file(s)
- Assisted learning of character database from sample images
- Character database management: adding characters; saving, loading database

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.

EasyOCR2 Description

EasyOCR2 is a font-dependent printed character reader. It has been designed to read short texts such as part numbers, serial numbers, expiry dates, manufacturing dates, lot codes, … printed on labels or directly on parts.

Segmentation

EasyOCR2 uses an advanced novel algorithm to locate the texts to read in the image. The topology of the text to detect (number of lines, words and characters) can be freely set by the user.

Character type specification

The character type (letter, digit, symbol, …) of each character can be specified to improve the recognition speed and rate.

Full support for text rotation (360 degrees)

Assisted learning

When learning from sample images, an interactive tool available in Open eVision Studio is used to identify samples of each character, allow the library to learn them and save the resulting font file.

Support for TrueType Font (ttf) files

EasyOCR2 requires training the font to be recognized. This can be done either from sample images or from standard .ttf (True Type Font) files. This makes the recognition flexible, fast and reliable.

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

- Serial number / part number / expiry date verification
- Lot mixing verification

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.
	• Open eVision can be used on the following operating systems:
	– Windows 10, 8 and 7 (32- and 64-bits)
	– Windows Vista 32-bits Service Pack 1
	– Windows XP 32-bits Service Pack 3
	– Windows Server 2008 32-bits
	– Windows Server 2008 R2 64-bits
	– Windows Server 2003 32-bit Service Pack 1
	– Windows Embedded Standard 2009 32-bits
	• The Open eVision installer does not allow installation on virtual machines.
	• Minimum requirements:
	– Display size: 800 x 600. 1280 x 1024 recommended.
	– Color depth: 16 bits. 32 bits recommended.
	– Between 20 MB and 300 MB free hard disk space for libraries, depending on selected options.
	– Between 60 MB and 400 MB free hard disk space for development tools, depending on selected options.
APIs	Supported Integrated Development Environments and Programming Languages:
	• Microsoft Visual Studio 6.0 SP6 (C++, Basic)
	• 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)
	• 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	• 4179 - Open EasyOCR2 for USB dongle
	• 4229 - Open EasyOCR2 for PAR dongle
	• 4279 - Open EasyOCR2 for soft-based licensing

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