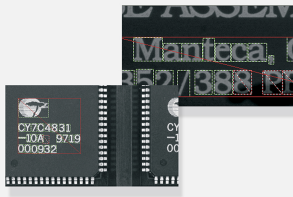




EasyOCV

Optical character verification library

At a Glance



- Comprehensive character verification with automatic training
- Grayscale analysis
- Text and character-level inspection
- Contrast, position and shape defect detection

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.

EasyOCV Description

EasyOCV is an optical character verification tool used for mark inspection. It provides automatic training of the model, adjustable acceptance levels and a robust gray-scale analysis. EasyOCV is suitable for various mark inspection and label printing verification applications. It can detect blurred, misaligned, distorted or double marks, extra or missing ink, missing characters or reversed marks as well as contrast problems.

Training

EasyOCV first requires training on the particular marking. During this phase, a good-quality template (golden template) is presented to the system. An interactive utility allows defining the structure of the template and related acceptance criteria, in details. The template learnt can be saved for later use.

EasyOCV supports the use of several good-quality templates to help with the determination of the acceptance criteria.

Inspection

When a template model is ready, the inspection may take place. EasyOCV first locates the marking in the image, allowing it to be translated, rotated and re-scaled or even sheared with respect to the template. After location, grey-level and geometric comparisons are performed and a series of matching scores, called quality indicators, are computed. When these fall outside of given acceptance intervals, a defect warning is reported.

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 Electronic Manufacturing Industry

- Mark inspection

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.
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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)
- 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	• 4306 - Open eVision EasyOCV
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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