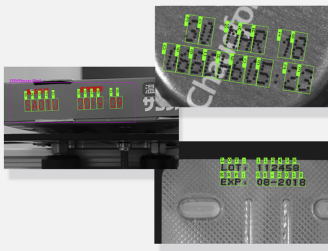




EasyOCR

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

New in Open eVision 22.08

- EasyLocate Interest Point : New working mode (alternative to EasyLocate Axis Aligned Bounding Box) simplifying the annotation of the dataset and the configuration of the tools when all objects have the same size. A single click is enough to annotate an EasyLocate Interest Point object.
- EasyGauge : New Polygon Gauge in addition to Point, Line, Rectangle, Circle and Wedge gauges.
- Deep Learning tools now supporting GPU processing on NVIDIA Jetson.
- Faster compilation time with simplified C++ headers and reduced calling cost to the Open eVision API.

New in Open eVision 22.04

All Open eVision libraries are now also available for embedded ARM devices.

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-learned 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.

All Open eVision libraries are available for Windows and Linux

- Windows 7 to Windows 10 x86 (32-bits) and x86-64 (64-bits)
- Windows 11 x86-64 (64-bits)
- Linux 64 bits (x86-64 and ARMv8-A) with a glibc version 2.18 or newer

Applications

Machine Vision for the Electronic Manufacturing Industry

- High speed image acquisition for AOI, 3D SPI, 3D lead/ball inspection machines.
- Very high resolution line-scan image acquisition for Flat Panel Display inspection and solar cell inspection

Machine Vision for the General Manufacturing Industries

- High frame rate image acquisition for inspection machines
- Line-scan image acquisition for surface inspection machines
- Line-scan image acquisition for textile inspection
- Product identification for traceability

Machine Vision for the Printing Industry

- High speed line-scan image acquisition for printing inspection machines
- Label and packaging inspection: Inspection of the quality of the printing of characters and codes

Video Acquisition and Recording

- High-frame-rate video acquisition for motion analysis and recording

Specifications

Software

Host PC Operating System

- Open eVision is a set of 32-bit and 64-bit libraries that require an Intel compatible processor with the SSE4 instruction set or an ARMv8-A compatible processor.
- The Deep Learning Bundle is only available in the 64-bit Open eVision library.
- Open eVision can be used on the following operating systems:
 - Windows 11 (64-bits)
 - Windows 10 (32- and 64-bits)
 - Windows 8 (32- and 64-bits)
 - Windows 7 (32- and 64-bits)
 - Linux 64 bits (x86-64 and ARMv8-A) with a glibc version greater or equal to 2.18
- 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
- Remote connections
 - Remote connections are allowed using remote desktop, TeamViewer or any other similar software.
- Virtual machines
 - Linux virtual machines are supported. Microsoft Hyper-V and Oracle VirtualBox hypervisors have been successfully tested.
 - Windows virtual machines are not supported.
- Minimum requirements:
 - 2 GB RAM to run an Open eVision application
 - 8 GB RAM to compile an Open eVision application
 - 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)
 - Microsoft Visual Studio 2019 (C++, C#, VB .NET, C++/CLI)
 - Microsoft Visual Studio 2022 (C++, C#, VB .NET, C++/CLI)
 - QtCreator 4.15 with Qt 5.12
 - 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)
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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
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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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EMEA

Euresys SA

Liège Science Park - Rue du Bois Saint-Jean, 20
4102 Seraing - Belgium

Email: sales.europe@euresys.com

EMEA

Sensor to Image GmbH

Lechtorstrasse 20
86956 Schongau - Germany

Email: sales.europe@euresys.com

AMERICA

Euresys Inc.

27132-A Paseo Espada - Suite 421
San Juan Capistrano, CA 92675 - United States

Email: sales.americas@euresys.com

ASIA

Euresys Pte. Ltd.

750A Chai Chee Road - #07-15 ESR BizPark @ Chai Chee
Singapore 469001 - Singapore

Email: sales.asia@euresys.com

CHINA

Euresys Shanghai Liaison Office

Unit 802, Tower B, Greenland The Center - No.500 Yunjin Road, Xuhui District
200232 Shanghai - China

Euresys上海联络处

上海市徐汇区云锦路500号绿地汇中心B座802室
200232

Email: sales.china@euresys.com

CHINA

Euresys Shenzhen Liaison Office

Room 1202 - Chinese Overseas Scholars Venture Building
518057 Shenzhen - China

Euresys深圳联络处

深圳南山区留学生创业大厦1期1202
518057

Email: sales.china@euresys.com

JAPAN

Euresys Japan K.K.

Expert Office Shinyokohama - Nisso Dai 18 Building, Shinyokohama 3-7-18, Kohoku
Yokohama 222-0033 - Japan

〒222-0033

神奈川県横浜市港北区新横浜3-7-18 日総第18ビル エキスパートオフィス新横浜

Email: sales.japan@euresys.com

More at www.euresys.com

