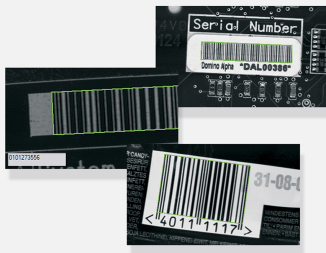


# EasyBarCode

Bar code reading library



## At a Glance

- Automatic detection of the barcode in the image
- Automatic detection of the symbology
- Very fast and robust
- Full support of numerous symbologies
- Mail Barcode Reader
- Multiple codes reading

## 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.
- EasyBarCode now supports Pharmacode One Track symbology.

### 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.

### EasyBarCode description

EasybarCode is a library designed to automatically locate and read bar codes. Bar codes encode short character string and are widely used for marking and identifying goods.

EasyBarcode is able to identify and read a wide range of standard commonly-used symbologies as well as special symbologies. EasyBarcode automatically locates the bar code symbol in the image and supports code rotation. Moreover for prototyping or special cases, an advanced manual location mode is also available.

### **Supported barcode symbologies**

- Codabar, Code 128, Code 25 Interleaved
- Code 39, EAN 128, EAN 13
- MSI, UPC A, UPC E
- Binary Code, Code ABC Anker, Code BC 412, Code 11, Code 25 (DataLogic, Matrix, IATA, Industry, Compressed, Inverted)
- Code 32, Code 39 Extended Reduced, Code 93, Code 93 Extended, Code BCD Matrix, Code CIP, Code STK
- EAN 8, IBM Delta Distance A, Plessey, Telepen
- 4-state Mail Barcode (Japanese and US Mail)
- Pharmacode One Track

### **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
- Code quality verification for label printing machines

### **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

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### 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.

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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)
    - 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

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### Product code - Description

- 4010 - EasyBarCode for USB dongle
  - 4060 - EasyBarCode for PAR dongle
  - 4110 - EasyBarCode for board licensing
  - 4160 - Open EasyBarCode for USB dongle
  - 4210 - Open EasyBarCode for PAR dongle
  - 4260 - Open EasyBarCode for soft-based licensing
  - 4310 - Open eVision EasyBarCode
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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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