

Open Source Components in Common Vision Blox

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1 Open Source Licenses in Common Vision Blox

Introduction

Like many software packages, Common Vision Blox has been partly implemented using Open Source libraries.
To honor the terms under which these libraries have been published by their respective copyright owners, this document gives an overview of the Open Source packages that have been used in Common Vision Blox and provides information about the license terms of these packages.

The license statements and disclaimers for these packages can be found in their individual section.

The table below gives an **overview over all the libraries** and provides links to the individual sections (if available).

Unless state otherwise, the open source libraries have been linked statically to the Common Vision Blox modules that make use of them.
All of the open source libraries listed below are available from their respective project sites or from STEMMER IMAGING directly.
If you wish to receive a copy of the sources please contact support@stemmer-imaging.de.

Overview

Library	License	Used where in CVB
Boost Portable extensions to the C++ standard library. http://www.boost.org	Boost Software License 10 Version 1.0 (see also: http://www.boost.org/users/license.html)	Starting with Common Vision Blox 10.2, Boost version 1.36, 1.43, 1.45, 1.53 and 1.59 are used in almost all modules of Common Vision Blox.
crypto++ Free C++ cryptography library. https://www.cryptopp.com	Boost Software License 10 Version 1.0 (see also: http://www.cryptopp.com/License.txt)	Starting with Common Vision Blox 11.00.000, crypto++ 5.6.0 to 5.6.3 has been used in the implementation of the Common Vision Blox licensing scheme.
Eigen C++ template library for linear algebra. http://eigen.tuxfamily.org	Eigen is licensed under the MPL2 32 (Mozilla Public License version 2.0; see http://eigen.tuxfamily.org/index.php?title=Main_Page#License and https://www.mozilla.org/en-US/MPL/2.0/FAQ/).	Eigen 3.3.4 has been used in the implementation of the CVCore3D.dll in Common Vision Blox 13.01.000 and higher. In this implementation only the components of Eigen that are subject to the MPL2 have been used.

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Library	License	Used where in CVB
Expat XML parser library. http://expat.sourceforge.net/	Expat License[11] (comes as part of the source code package).	Since Common Vision Blox 12.00.000, Expat is part of the reference implementation of the GenApi.
FLANN Library for fast approximate nearest neighbor searches in high dimensional space. http://www.cs.ubc.ca/research/flann/	FLANN is licensed under the terms of the 2-clause BSD license[13]. (see http://www.cs.ubc.ca/research/flann/, https://opensource.org/licenses/bsd-license.php)	FLANN 1.8.4 has been used in the implementation of the CVCore3D.dll in Common Vision Blox 13.01.000 and higher.
GenApi SDK for accessing GenICam compliant cameras. http://www.emva.org/standards-technology/genicam/genicam-downloads/	The runtime version of the GenApi's reference implementation is distributed under a modified BSD license[12]. Parts of the reference implementation's source code refer to the LGPLv2.1[16].	The GenApi reference implementation is the basis for the GenICam support in Common Vision Blox 10.00.000 and higher and is being used in e.g. the CVGenApi.dll, the GenICam.vin and the GenICamBrowser. All components that use the GenApi reference implementation are linked dynamically to its libraries.
j2k J2k was an open source library for JPEG2000 support.	j2k license[14].	The j2k library 0.8 has been used in the implementation of the CVCFile.dll in Common Vision Blox 8.0 to 10.2.
JasPer JPG and JPG2000 encoder and decoder. https://www.ece.uvic.ca/~frodo/jasper/	JasPer License[15] Version 2.0 (see also: https://www.ece.uvic.ca/~frodo/jasper/#license)	JasPer 1.900.1 has been used in the implementation of the CVCFile.dll in Common Vision Blox 11.00.000 and higher.
libjpg JPG encoder and decoder. http://www.ijg.org/files/	libjpg License[26] (see also: http://jpegclub.org/reference/libjpeg-license/)	libjpg 6b, 7, 8c and 8d has been used in the implementation of the

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Library	License	Used where in CVB
		CVCFile.dll in Common Vision Blox 8.0.0 and higher.
libpng PNG encoder and decoder. http://www.libpng.org/pub/png/libpng.html	libpng License [27] (see also: http://www.libpng.org/pub/png/src/libpng-LICENSE.txt)	libpng 1.2.4 has been used in the implementation of the CVCFile.dll since Common Vision Blox 10.2.
libtiff TIFF encoder and decoder. http://www.libtiff.org and http://www.simplesystems.org/libtiff/	libtiff License [30] (see also: http://www.libtiff.org/misc.html and http://www.simplesystems.org/libtiff/misc.html)	libtiff 3.5.7 has been used in the implementation of the CVCFile.dll starting with Common Vision Blox 8.0. libtiff 4.0.9 has been used in the implementation of the CVCore3D.dll in Common Vision Blox 13.01.000 and higher.
libusb A cross-platform library to access USB devices. https://github.com/libusb/libusb	LGPLv2.1 [16] (see also: https://github.com/libusb/libusb/blob/master/COPYING)	libusb is loaded dynamically by the Linux builds of the libCVUAL.so in Common Vision Blox 12.00.000 and higher.
libusbK Generic user mode USB library and kernel mode driver for the Microsoft Windows Operating System family. http://libusbk.sourceforge.net/	The libusbK.dll and libusbK.sys may be licensed for redistribution under GPL or a modified BSD license [31]. We have opted for the latter.	libusbK 3.0.7 has been used in the USB3 Vision implementation of Common Vision Blox in version 12.00.000 and higher.
log4cpp Log4cpp is a library of C++ classes for flexible logging. http://log4cpp.sourceforge.net/	LGPLv2.1 [16]	log4cpp 0.3.4 has been used in the implementation of the GenApi. The GenApi and Common Vision Blox link dynamically versus the log4cpp DLL since version 10.0.
Mathparser Library for evaluating math expressions.	LGPLv2.1 [16] (no version number given, so we're assuming the more restrictive 2.1 version)	Mathparser has been used in the GenApi reference implementation. The GenApi and Common Vision Blox link

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http://kirya.narod.ru/mathparser.html		dynamically versus the Mathparser libraries since version 10.0.
openjpeg JPG encoder and decoder. http://www.openjpeg.org/	openjpeg License 38 (comes as part of the source code package).	openjpeg 1.2 has been used in the implementation of the CVCFile.dll in Common Vision Blox 10.1 and higher.
Qt Cross platform GUI toolkit. https://www.qt.io	Qt has been used under the terms of the LGPLv3 23.	In Common Vision Blox 12.00.000 and higher Qt 4.8 and higher has been used in the implementation of the GenICamBrowser, the LicenseManager and the LogGUI, which both link the unaltered Qt libraries dynamically. The sources for Qt are available directly from https://www.qt.io/download or from STEMMER IMAGING (including the build scripts where applicable):

Version	Download Windows	Download Linux
Qt 4.8.1	ftp://ftp.commonvisionblox.com/forum/opensource/qt-everywhere-opensource-src-4.8.1.zip	ftp://ftp.commonvisionblox.com/forum/opensource/qt-everywhere-opensource-src-4.8.1.tar.gz
Qt 5.6.2	(has not been used on Windows)	ftp://ftp.commonvisionblox.com/forum/qt-everywhere-opensource-src-5.6.2.tar.gz
Qt 5.7.1	ftp://ftp.commonvisionblox.com/forum/opensource/qt-everywhere-	ftp://ftp.commonvisionblox.com/forum/qt-everywhere-opensource-src-5.7.1.tar.gz

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Library	License	Used where in CVB
	opensource-src-5.7.1.zip	
sqlite Lightweight database. https://www.sqlite.org	Public Domain [39] (see also: https://www.sqlite.org/copyright.html)	sqlite 3.7.0 and higher has been used in the implementation of the CVRegistry.dll in Common Vision Blox 12.00.000 and higher.
VTK Software system for 3D computer graphics, modeling, image processing, volume rendering, scientific visualization and information visualization. https://www.vtk.org/overview/	VTK is licensed under the BSD license [41]. (https://www.vtk.org/licensing/)	VTK 7.1.1 has been used in the implementation of the CVCore3DViewer.ocx in Common Vision Blox 13.01.000 and higher.
wxWidgets Cross-platform GUI toolkit. http://www.wxwidgets.org/	LGPLv2 [16] or higher + exception [42] to release binary work based on wxWidgets on custom license terms. We opt for LGPLv3 [23] with exception. (see also: http://www.wxwidgets.org/about/licence/)	wxWidgets 2.8.10 and 3.1 has been used in the implementation of the GenApiGrid.ocx and the LicWizardBase.dll in Common Vision Blox 10.0.
Xalan Xalan is an XSLT processor for transforming XML documents. https://xml.apache.org/xalan-c/	Xalan is licensed under the Apache Software License 1.1 [43].	Xalan 1.10 has been used in the implementation of the GenApi in Common Vision Blox 10.0 to 11.02.xxx.
Xerces Xerces is a validating XML parser for reading and writing XML data. http://xerces.apache.org/	Xerces is licensed under the Apache Software License 1.1 [44].	Xerces 2.7 has been used in the implementation of the GenApi and the CVRegistry.cvb DLL in Common Vision Blox 10.0 to 11.02.xxx.
XSD/e XSD/e is an XML schema compiler.	XSD/e is in principle available under the GPLv2 but has been	XSD/e has been used in the implementation of the

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Library	License	Used where in CVB
www.codesynthesis.com/products/xsde	commercially licensed for use in the GenApi implementation. The contract is available on request.	GenApi and has for that purpose been licensed from CodeSynthesis. Used in Common Vision Blox 12.00.000 and higher.
zlib Compression library. http://www.zlib.net/	zlib License (see also: http://www.zlib.net/zlib_license.html)	zlib 1.2.1 and higher has been used in the implementation of the CVCFile.dll, the GenICam.vin and the CVGevServer.dll in Common Vision Blox 8.0 and higher.
zxing-cpp Barcode reading library based on the ZXing ("Zebra Crossing") library. https://github.com/glassechidna/zxing-cpp; https://github.com/zxing/zxing	Apache 2.0 (both ZXing and zxing-cpp) (see also: https://github.com/glassechidna/zxing-cpp/blob/master/COPYING and https://github.com/zxing/zxing/blob/master/LICENSE)	zxing-cpp is the base of the implementation of the ZXBarcode.dll in Common Vision Blox 13.01.000 and higher.

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1.1 Boost

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1.2 Expat

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1.3 GenApi

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1.4 FLANN

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1.5 j2k

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1.6 JasPer

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1.7 LGPLv2.1

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1.9 libjpg

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1.10 libpng

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1.11 libtiff

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1.12 libusbK

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1.13 MPL2

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1.17 wxWidgets

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1.20 zlib

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1.21 zxing-cpp

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