eGrabber Driver

Coaxlink and Grablink Duo driver

At a Glance

- C++, C# and Python APIs
- Support for single-thread and multi-thread callbacks for real-time event handling
- Support for script files to configure the frame grabber and camera
- Compatible with GenICam, GenApi and GenTL
- Compatible with Windows, Linux and macOS

Benefits

Description

The eGrabber Driver is a library of classes that provides an easy-to-use programming interface for image acquisition from Coaxlink and Grablink Duo frame grabbers. eGrabber features a high-level, object oriented, user-friendly API compatible with C++, C# and Python.

Genapi script files

eGrabber supports readable script files that can be used to automate camera and frame grabber configuration. Their syntax uses a subset of JavaScript. Using a script file provides several advantages:

- The camera or frame grabber configuration can be changed without recompiling the application.
- The configuration script can be loaded by eGrabber Studio to validate the configuration outside of the user application.
- A configuration script can be shared by several applications written in different languages.

Callback functions

eGrabber supports the definition of callback functions, functions that are automatically called when specified events occur. eGrabber's events are related to new images (buffers), data streams, the camera and illumination controller, the frame grabber's I/O toolbox or the CoaXPress interface events. Single-thread and multi-thread callbacks are supported.

GenICam

The eGrabber driver and eGrabber Gigelink are also official GenICam GenTL producers. They seamlessly connect and provide image acquisition services to any application compatible with GenTL.

C++,C# and Python

Euresys::EGrabber is a library of C++ classes. Moreover, eGrabber can be used in .NET languages (C#, VB.NET, etc.) via a .NET assembly. Python bindings are also provided as a Python wheel installation package.

Works great in eGrabber Studio

Also available in the same ecosystem, eGrabber Studio is the evaluation and demonstration application of eGrabber. It allows testing image acquisition, checking and configuring the parameters (GenAPI features) of the cameras and frame grabbers and recording the acquired video onto the hard disk. Live histogram, profile and pixel information display are also available.

eGrabber: A single API for GigE Vision, CoaXPress & Camera Link cameras

eGrabber Gigelink, a new optional add-on to eGrabber, provides a universal, hardware-independent access to GigE Vision cameras. eGrabber Gigelink allows the user to seamlessly integrate GigE Vision cameras from multiple brands in the same application, bypassing the proprietary camera drivers. With eGrabber, programmers can then use the same concepts, objects, and function calls to acquire images from GigE Vision cameras of any brand, from any CoaXPress cameras and any Camera Link camera.

Compatible with Windows, Linux and macOS

- All versions from Windows 7 SP1 to Windows 11, including the server versions, on x86_64 (64-bit) platforms
- Designed to be independent of the Linux distribution, on x86_64 and AArch64 (ARM64) platforms
- Designed to support all macOS versions from version 10.12 on x86_64 (64-bit) platforms

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

Machine Vision for the Printing Industry
- High speed line-scan image acquisition for printing inspection machines

Video Acquisition and Recording
- High-frame-rate video acquisition for motion analysis and recording

Specifications

Software

Host PC Operating System	• Microsoft Windows 11, 10, 8.1, 7 for x86-64 (64-bit) processor architecture
	• Linux for x86-64 (64-bit) and AArch64 (64-bit) processor architectures
	• macOS for x86-64 (64-bit) processor architecture

Ordering Information

Product code - Description	• 4406 - eGrabber Driver

EMEA

Euresys SA

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

Phone: +32 4 367 72 88
Email: sales.europe@euresys.com

EMEA

Sensor to Image GmbH

Lechtorstrasse 20 -
86956 Schongau - Germany

Phone: +49 8861 2369 0
Email: sales.europe@euresys.com

AMERICA

Euresys Inc.

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

Phone: +1 949 743 0612
Email: sales.americas@euresys.com

ASIA

Euresys Pte. Ltd.

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

Phone: +65 6445 4800
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

Phone: +86 21 33686220
Email: sales.china@euresys.com

CHINA

Euresys Shenzhen Liaison Office

Room 1202 - Chinese Overseas Scholars Venture Building
518057 Shenzen - China
Euresys深圳联络处
深圳南山区留学生创业大厦1期1202
518057

Phone: +86 755 86506902
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

Phone: +81 45 594 7259
Email: sales.japan@euresys.com