



eGrabber Memento

Event logging tool



At a Glance

- Accurate logging of events related to the camera, the frame grabber and its driver as well as the host application
- Graphical representation of time-stamped events on a precise timeline with context information
- Logic analyzer feature to help users analyze selected system events
- Support for setting up, debugging and profiling the system
- Availability with all Coaxlink and Grablink cards in the PC
- Non-intrusive tool requiring low CPU usage
- Compatible with Windows, Linux, and macOS

Benefits

What is Memento?

In high-end inspection machines using vision, the frame grabber is responsible for acquiring images in synchronization with numerous external devices such as motion or lighting controllers, not to mention the camera itself.

Debugging these systems often requires complex equipment, for example, oscilloscopes and logic analyzer, which are used along with software profilers. The problem is even more acute with the latest cameras available, which allow for very fast frame rates exceeding several hundred, even thousand frames per second.

Memento has been designed to simplify that process. During the operation, Memento records a very detailed log of events related to the camera, the frame grabber and its driver, as well as the host application.

How does Memento work?

The Memento driver records events such as driver function calls, callbacks, triggers received by the frame grabber, strobe signals sent to the light controller or camera control signals, along with precise time stamps and detailed context information.

In the Memento application, you can display a list of these events with their associated time stamp and useful context information. The events listed are also displayed in a timeline.

Different levels of verbosity are used to filter and display only the most crucial messages or to provide much more detailed log information.

Additional display and highlighting options are available based, among others, on the origin or nature of the messages. Search features also allow you to find back messages based on their content.

Memento assists developers during application development and debugging, as well as system operation. It helps them understand the behavior of the machine and pin down the cause of issues such as missed triggers or lost images.

Non-intrusive and powerful tool

Memento runs in the background and builds logs that can be saved and sent back to the support team in case of machine failure. Memento relies on software resources implemented inside the driver of the cards as well as hardware resources on the cards themselves. Memento has been designed to be extremely efficient. It is non-intrusive as the required CPU load is extremely low.

Memento is very powerful as it can collect extremely diverse logging information and provide extensive filtering capabilities, at several levels, based on the nature of logging information or on the requested verbosity level.

Memento analyzer

Memento provides a logic analyzer tool, called Memento Analyzer, that receives detailed, sequenced and timing information to help measure latencies and detect defects during acquisition.

The Memento Analyzer displays system events (trigger, strobe, DMA, ...) on a timeline.

It analyzes how buffer queues are used and how acquired images are delivered to the application. It also displays detailed information about incoming protocol data (CoaXPress, ...).

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 4405 - eGrabber Memento
----------------------------	---



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 Shenzhen - 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

More at www.euresys.com

