Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2

Release Notes

18 December 2013

New Features

Grablink Full XR board support

The Grablink Full XR board is now supported.

Support for Camera Link® line-scan cameras

Camera Link® line-scan cameras are now supported on Grablink boards.

Support for 14-bit Greyscale value for Color Format parameter

The *14-bit Greyscale (Y14)* value is now available for the *Color Format* parameter on Grablink boards.

Improvements

Cognex VisionPro® memory pool size set to 25% of total physical visible memory

The memory pool size needed for the Cognex VisionPro® Adapter for Euresys Frame Grabbers is now set (at installation time) to 25% of the total amount of physical memory visible in your Windows OS. This is sufficient for most cases. Nevertheless, if your setup has higher memory requirements (e.g. very large images), you could experience errors such as "The acquisition failed abnormally. (Adapter image pool full.)" or even a crash of the Cognex AIK server. In this case, the "PoolSize" registry value must be increased as explained in the following transcript of the Cognex VisionPro® documentation:

Check your memory requirements with the following formula: ***16 * image size in kBytes****. For instance, for an RGB 4k x 4k pixels area-scan camera, we have:*

> *16 * 4096 pixels * 4096 pixels * 3 bytes per pixel / 1024 = 786432 kB.*

If this value is greater than 25% of the total amount of visible memory in your system (i.e. 524288 kB), you have to update the pool size setting in the registry as follows:

- *Launch regedit.exe and find the HKEY_LOCAL_MACHINE\SOFTWARE\Cognex\AIK\AdapterEuresysFrameGrabbers or HKEY_LOCAL_MACHINE\SOFTWARE\Cognex\AIK\AdapterEuresysFrameGrabbers64 registry key.*
- *Under this registry key, edit the "PoolSize" value, click "Decimal" for the "Base" setting, set the new value (i.e. 786432 in this case) and click "OK" to apply the new setting.*

Added support for TimeStamp property of CogAcqInfo objects

In a Cognex VisionPro® application, the *CogAcqInfo.TimeStamp* property is now set to the number of microseconds elapsed since midnight (00:00:00), January 1, 1970, coordinated universal time (UTC), according to the system clock when the image is acquired.

Solved issues

Out of memory error sometimes occurs during video acquisition in Configuration Utility

When running a video acquisition test in the Configuration Utility, the memory usage could sometimes increase quickly until an “Out of memory” error was displayed.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3086.

Broken acquisition when restarting too fast

In some circumstances, when the delay between a stop and a start of image acquisition was too short, an "Acquisition could not be started" timing error occurred and image acquisition could never be started again without restarting the Cognex VisionPro® application.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3085.

Update of Camera Configuration Files not working in Configuration Utility

When trying to update Camera Configuration Files via the Tools menu of the Configuration Utility, the installation of the downloaded files was not successful.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3085.

Fixed support of 8-bit RAW color format for Bayer CFA color cameras

In the Cognex VisionPro® Adapter for Euresys Frame Grabbers Configuration Utility, the *8-bit RAW* color format was not available for Bayer CFA color cameras in the "Color Format" drop-down list under the "Image" tab. Moreover, when trying to use the *RAW8* value as *ColorFormat* in a configuration file, an "Acquisition could not be started" timing error occurred when trying to acquire images.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3085.

Fixed support of Camera Link® cameras with *-2YE tap geometries

An error was returned when trying to acquire images from Camera Link® cameras with *-2YE tap geometries.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3085.

Added missing Trigger Input Type parameter default value for Domino Symphony PCIe

On Domino Symphony PCIe, the *AUTO* default value was not supported for the *Trigger Input Type* parameter. Consequently, the Cognex VisionPro® Adapter for Euresys Frame Grabbers considered configuration files containing this value as invalid.

This malfunction is solved since Cognex VisionPro® Adapter for Euresys Frame Grabbers 1.2.0.3085.

Known Issues

Camera list sorting issue

In the Cognex VisionPro® Adapter for Euresys Frame Grabbers Configuration Utility the Camera list under the Device tab may not be sorted alphabetically.

Acquisition start issue with conflicting configuration files

When several conflicting configuration files coexist in the same directory the image acquisition fails to start when using Cognex VisionPro®. In this case the status bar reports the following error: "A timing error occurred. (Acquisition could not be started)". The following setups for a single board are conflicting:

- A PoCL-Lite camera and a non-PoCL-Lite camera on the same connector of a Grablink board.
- A 10-Tap (80 bit) camera and a Base, Medium or Full Camera Link® camera on Grablink Full.
- A monochrome camera and an RGB camera on Domino Harmony.
- Two configurations using different Camera Types on Picolo (PCIe).

As a workaround you can remove conflicting configuration files from the configuration directory.