APPLICATION NOTE

Frame Grabbers for Goldeye Camera Link Cameras

Scope of this document

Goldeye Camera Link (CL) cameras can be operated with most Camera Link Base frame grabbers. This document refers to frame grabbers that have been successfully tested by Allied Vision with the Goldeye CL family.

Goldeye CL specifications

Taps and pixel formats

Tap geometry	Pixel formats
1X_1Y	Mono8, Mono12, Mono14
1X2_1Y	Mono8, Mono12

Table 1: Taps and pixel formats for Goldeye CL cameras

Clock frequency, resolution, and frame rate

Goldeye model	Maximum clock frequency	Max. resolution	Maximum frame rate[1]
CL-008	40 MHz	320 × 256	344 fps
CL-030	85 MHz	656 × 520	234 fps
CL-032	40 MHz	636 × 508	397 fps
CL-033	85 MHz	640 × 512	301 fps
CL-034	85 MHz	636 × 508	303 fps
CL-130	85 MHz	1280 × 1024	94 fps

[1]Nominal values as stated in the user guide, current values may differ, depending on the setup.

Table 2: Clock frequency, resolution, and frame rate by camera model

Goldeye CL documentation

For a detailed description of the Goldeye Camera Link interface, refer to the Goldeye G/CL Technical Manual at www.alliedvision.com/en/support/technical-documentation/goldeye-gcl-documentation.

Tested frame grabbers

Goldeye CL cameras could be operated successfully with the following frame grabbers:

Manufacturer	Series	PCIe	CL plug	GenCP
Active Silicon	Firebird AS-FBD	x4	SDR	Supported
Active Silicon	Firebird AS-FBD	x8	MDR	Supported
Bitflow	Axion-1xB	x4	MDR	Supported
Bitflow	Axion-2xB	x4	MDR	Supported
Bitflow	Axion-4xB	x4	MDR	Supported
Bitflow	Neon-CLB	x4	MDR	Supported
Bitflow	Neon-CLD	x4	MDR	Supported
Bitflow	Neon-CLQ	x4	SDR	Supported
Euresys	GRABLINK	x1 / x4	MDR / SDR	Not supported
Epix	PIXCI® E8	x8	MDR	Not supported
Matrox	Radient eV-CL	x4 / x8	SDR	Supported
National Instruments	PCIe-1433	x4	MDR	Not supported

Table 3: Frame grabbers tested with Goldeye CL cameras

Goldeye CL cameras and Power over Camera Link (PoCL)

PoCL-capable frame grabbers

Because Goldeye CL cameras do not conform to the PoCL standard, they cannot be powered by PoCL.

Using PoCL-capable frame grabbers does not affect camera operations.

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