

APPLICATION NOTE

Usage of Frame grabbers with Goldeye CL Cameras

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Scope of this document

Goldeye CL cameras are able to operate with the great majority of Camera Link base frame grabbers available today. However, this document refers to frame grabbers successfully tested by Allied Vision with the Goldeye CL family.

Goldeye Camera Link interface

The Goldeye CL provides a Camera Link Base interface with up to 2 taps.

- a tap geometry of 1X_1Y with the Mono8, Mono12, and Mono14 pixel formats,
- a tap geometry of 1X2_1Y with the Mono8, and Mono12 pixel formats.

Maximum clock frequencies are as follows.

- CL-008 and CL-032 models: 40 MHz
- CL-033 model: 85 MHz

The camera has an SDR26 connector, and a Serial Control Channel. The Goldeye CL-033 can achieve a speed of 301 fps. With full resolution of 640 x 512 it can reach an output of 98,6 MB/s.



Further information available online

For a detailed description of the Goldeye Camera Link interface refer to the Goldeye G/CL technical manual:

<https://www.alliedvision.com/en/support/technical-documentation/goldeye-gcl-documentation.html>

Tested frame grabbers

Manufacturer	Series	PCIe	CL - Plug	GenCP
Active Silicon	Firebird AS-FBD	x4	SDR	Yes
Active Silicon	Firebird AS-FBD	x8	MDR	Yes
Euresys	GRABLINK	x1 / x4	MDR / SDR	
Epix	PIXCI® E8	x8	MDR	
National Instruments	PCIe-1433	x4	MDR	
Silicon Software	microEnable IV	x1 / x4	MDR	

Goldeye CL cameras and Power over Camera Link (PoCL)



Take note when using PoCL-capable framegrabbers

Goldeye CL cameras are not conform to the PoCL standard, and are not prepared to be powered by PoCL.

However, PoCL-capable frame grabbers will not effect camera operations.

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