

## APPLICATION NOTE

# Frame Grabbers for Goldeye Camera Link Cameras

V1.2.1  
2021-Nov-26

## 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 <sup>1</sup>
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

<sup>1</sup>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](http://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
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.

## Contact us

### Website, email

**General**

[www.alliedvision.com/en/contact](http://www.alliedvision.com/en/contact)  
[info@alliedvision.com](mailto:info@alliedvision.com)

**Distribution partners**

[www.alliedvision.com/en/avt-locations/avt-distributors](http://www.alliedvision.com/en/avt-locations/avt-distributors)

**Support**

[www.alliedvision.com/en/support](http://www.alliedvision.com/en/support)  
[www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/rma](http://www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/rma)

## Offices

**Europe, Middle East, and Africa  
(Headquarters)**

Allied Vision Technologies GmbH  
Taschenweg 2a  
07646 Stadtroda, Germany  
T// +49 36428 677-0 (Reception)  
T// +49 36428 677-230 (Sales)  
F// +49 36428 677-28

**Asia-Pacific****China**

Allied Vision Technologies  
(Shanghai) Co., Ltd.  
2-2109 Hongwell Int. Plaza  
1602# ZhongShanXi Road  
Shanghai 200235, China  
T// +86 21 64861133

**Singapore**

Allied Vision Technologies Asia Pte. Ltd  
82 Playfair Rd, #07-02 D'Lithium  
Singapore 368001  
T// +65 6634 9027

**North, Central, and South America****Canada**

Allied Vision Technologies Canada Inc.  
300 – 4621 Canada Way  
Burnaby, BC V5G 4X8, Canada  
T// +1 604 875 8855

**USA**

Allied Vision Technologies, Inc.  
102 Pickering Way- Suite 502  
Exton, PA 19341, USA  
Toll-free// +1-877-USA-1394  
T// +1 978 225 2030

## Copyright and trademarks

All text, pictures, and graphics are protected by copyright and other laws protecting intellectual property. All content is subject to change without notice. All trademarks, logos, and brands cited in this document are property and/or copyright material of their respective owners. Use of these trademarks, logos, and brands does not imply endorsement.

Copyright © 2021 Allied Vision Technologies GmbH. All rights reserved.