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

<table>
<thead>
<tr>
<th>Tap geometry</th>
<th>Pixel formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>1X_1Y</td>
<td>Mono8, Mono12, Mono14</td>
</tr>
<tr>
<td>1X2_1Y</td>
<td>Mono8, Mono12</td>
</tr>
</tbody>
</table>

Table 1: Taps and pixel formats for Goldeye CL cameras

Clock frequency, resolution, and frame rate

<table>
<thead>
<tr>
<th>Goldeye model</th>
<th>Maximum clock frequency</th>
<th>Max. resolution</th>
<th>Maximum frame rate(^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-008</td>
<td>40 MHz</td>
<td>320 × 256</td>
<td>344 fps</td>
</tr>
<tr>
<td>CL-030</td>
<td>85 MHz</td>
<td>656 × 520</td>
<td>234 fps</td>
</tr>
<tr>
<td>CL-032</td>
<td>40 MHz</td>
<td>636 × 508</td>
<td>397 fps</td>
</tr>
<tr>
<td>CL-033</td>
<td>85 MHz</td>
<td>640 × 512</td>
<td>301 fps</td>
</tr>
<tr>
<td>CL-034</td>
<td>85 MHz</td>
<td>636 × 508</td>
<td>303 fps</td>
</tr>
<tr>
<td>CL-130</td>
<td>85 MHz</td>
<td>1280 × 1024</td>
<td>94 fps</td>
</tr>
</tbody>
</table>

\(^1\)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

Tested frame grabbers

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

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

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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