

## 5GIGE FIRMWARE RELEASE NOTES

### Alvium G5 cameras

2026-Jul-10  
V00.15.00.c67f770e



#### Helpful downloads

- Operating and updating cameras: Alvium G5 User Guide
- Features: Alvium Features Reference  
[www.alliedvision.com/en/support/technical-documentation/alvium-g5-documentation](http://www.alliedvision.com/en/support/technical-documentation/alvium-g5-documentation)
- Firmware files  
[www.alliedvision.com/en/support/firmware-downloads](http://www.alliedvision.com/en/support/firmware-downloads)
- Firmware updater, included in **Vimba X**  
[www.alliedvision.com/en/products/software/vimba-x-sdk](http://www.alliedvision.com/en/products/software/vimba-x-sdk)

## Latest firmware version for your Alvium G5 model

The following table lists the latest firmware version for your Alvium G5 camera.

Models	FW version	Document release
Alvium G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-291m/c, G5-321m/c, G5-320 VSWIR, G5-500m/c, G5-507m/c Pol, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-530 VSWIR, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c	<a href="#">FW 00.15.00.c67f770e</a>	2026-Jul-10
Alvium G5-321m/c	<a href="#">FW 00.14.02.0b3047cf</a>	2026-Apr-13

Table 1: Latest firmware version by model



#### Minimum supported firmware version

See [Minimum firmware versions by model](#) on page 2.

## Minimum firmware versions by model



### Added contents

This section was added on 2024-Nov-27 with an updated version for the FW 00.14.00 release ([FW 00.14.00.baba1e3c](#) on page 7).



### Firmware Downgrade

**We strongly advise against downgrading the firmware**, as the latest version includes essential updates and bug fixes. If you must downgrade, please refer to the list in [Table 2](#): below for the minimum supported firmware version by camera model.

**Caution:** Downgrading your camera firmware below the specified minimum version renders the camera inoperable.

G5-	Minimum FW	G5-	Minimum FW	G5-	Minimum FW
052m/c	00.11.00	507m/c Pol	00.13.00	1240m/c	00.11.00
130 VSWIR	00.11.00	508m/c	00.11.00	1242m/c	00.11.00
203m/c	00.12.00	508m/c Pol	00.13.00	1620m/c	00.11.00
240m/c	00.12.00	510m/c	00.11.00	2040m/c	00.11.00
291m/c	00.11.00	511m/c	00.11.00	2050m/c	00.11.00
320 VSWIR	00.13.02	530 VSWIR	00.13.02	2460m/c	00.11.00
321m/c	00.14.02	811m/c	00.11.00		
500m/c	00.11.00	812 UV	00.11.00		

Table 2: Minimum firmware version by model



### Solution for inoperable cameras after unsupported firmware updates

If you have rendered your camera inoperable by trying to downgrade the firmware to a version below the minimum version, please visit [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) for firmware recovery.

## FW 00.15.00.c67f770e

Date of document release: 2026-Jul-10

### Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-291m/c, G5-320 VSWIR, G5-500m/c, G5-507m/c Pol, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-530 VSWIR, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 3: Supported models

### New models

No new models were added.

### Changed features

Added *FrameActive* option to various features in `CounterAndTimerControl` and to `LineSource` in `DigitalIOControl`.

### New features

- `IntegrationMode` in `AcquisitionControl`
- `ChunkCounter0` and `...1` options in `ChunkDataControl`
- Decimation features in `ImageFormatControl`
- `TrapezoidProjectionControl` features in `ImageFormatControl`
- `OpticControl` features to focus Optotune liquid lenses
- `DefaultSCSPacketSize` in `TransportLayerControl`

### Resolved issues

Alvium ID	Affected models	Description
1305	All	Sometimes, the Gain slider in viewer applications does not respond to adjustments.
1438	All	<code>FrameTriggerWait</code> is high when acquisition is not running.
1512	G5-240m/c	Cameras are not recognized by viewer applications at startup. A hardware reset is required to recognize cameras again.
1567	All	Actual values for <code>AcquisitionFrameRate</code> loaded from user sets deviate from previously saved values.
1571	G5-510m	After using sensor binning, cameras must be power cycled to disable sensor binning again.
1573	G5-500m/c	After executing <code>DeviceReset</code> , sporadically image artifacts occur.
1577	All	When <code>Line3</code> is selected as counter source, it does not output the proper signal.
1606	All	Not visible in viewer applications, only with code input: After power cycles, when a <code>LineSource</code> is selected for Line 2, <b>Error -11 VmbErrorInvalidValue</b> is returned.
1608	All	The minimum value for <code>GevHeartbeatTimeout</code> is approximately 25 s, which is too long.

Table 4: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
1614	All	When streaming is stopped, the camera crashes. After a power cycle, it can be operated again.
1633	All	Cameras cannot be detected by <b>Cognex QuickBuild</b> servers.
1641	All	The actual exposure time is significantly higher than the set time.
1643	All	Sporadically, image artifacts occur.
1645	All	Sporadically, a jitter of PTP offset to master clock of $\pm 80 \mu s$ occurs.
1647	G5-2050m/c	With certain ROIs, auto exposure sets the image brightness to 255.
1700	All	When <b>Hue</b> and <b>ColorTransformationControl</b> are used together, high positive values create a dark image, but it should be bright.
1721	All	Sometimes, frames are incomplete.

Table 4: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
507	All	<b>SingleFrame</b> mode does not work with <b>NI MAX</b> : The last smaller packet and the trailer are missing.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <b>DataPacketHeaders_ByteOrder</b> test.
978	All	If an <b>AcquisitionStop</b> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<b>ChunkLineStatusAll</b> is reversed for Line 3. (The value for <b>LineStatusAll</b> in <b>DigitalIOControl</b> is correct.)
1653	All	Sometimes decimation 2x2 generates frames with incorrect intensity and with visible artifacts (wide vertical stripes).
1656	G5-500m	When digital binning H=1 and V=3 is used, sometimes images show defects or the camera crashes.
1660	All	Changing the packet size does not affect the sensor throughput calculation under certain conditions.
1661	All	After updating to FW V00.15.00, sometimes cameras must be re powered to enable operation.
1678	G5-203m/c, G5-321m/c	Cameras are not able to stream after <b>DevicePowerSavingMode</b> has been disabled.
1695	All	Sporadically, focus settings are wrong when <b>FocusAutoAlgorithm</b> is set to <b>BETA_AdaptiveStepSize</b> .
1704	All	Pause Frames are missing in Flow Control statistics.
1706	All	<b>LabView NI</b> : Errors occur with large packet sizes.
1707	All	<b>Third party GenTL applications</b> : For some features, registers must be read out first, before writing is possible.
1736	All	After using minimal or maximal values for <b>SubregionWidth</b> , <b>Width</b> cannot be changed.

Table 5: Known issues

## FW 00.14.02.0b3047cf

Date of document release: 2026-Apr-13

### Supported models

Camera series	Model
Alvium G5	G5-321m/c

Table 6: Supported models

### New models

Alvium G5-321m/c

### Changed or new features

No features were changed or added.

### Resolved issues.

Alvium ID	Affected models	Description
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed DataPacketHeaders_ByteOrder test.

### Known issues

Alvium ID	Affected models	Description
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
978	All	If an <b>AcquisitionStop</b> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<b>ChunkLineStatusAll</b> is reversed for Line 3. (The value for <b>LineStatusAll</b> in <b>DigitalIIOControl</b> is correct.)

Table 7: Known issues

## FW 00.14.01.d83c7207

Date of document release: 2025-Feb-13

### Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-291m/c, G5-320 VSWIR, G5-500m/c, G5-507m/c Pol, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-530 VSWIR, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 8: Supported models

### New models

No new models were added.

### Changed or new features

No features were changed or added.

### Resolved issues

Alvium ID	Affected models	Description
1554	All	Cameras cannot stream when using Zebra Matrox CaptureWorks software.
1531	All	Executing the <code>TimeStampLatch</code> command does not update <code>TimeStampLatchValue</code> .
1521	All	The event message for <code>EventActionLate</code> is not output in time.
1514	All	Cameras do not stream at low temperatures.
1326	G5-1240m/c, G5-2050m/c	The image turns purple when cameras receive an external trigger.
1287	All	<code>Gain</code> values are not set properly when changed in a fast sequence.

Table 9: Resolved issues

### Known issues

Alvium ID	Affected models	Description
507	All	<code>SingleFrame</code> mode does not work with NI Max: The last smaller packet and the trailer are missing.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<code>ChunkLineStatusAll</code> is reversed for Line 3. (The value for <code>LineStatusAll</code> in <code>DigitalIOControl</code> is correct.)

Table 10: Known issues

## FW 00.14.00.baba1e3c

Date of document release: 2024-Nov-15

### Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-291m/c, G5-320 VSWIR, G5-500m/c, G5-507m/c Pol, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-530 VSWIR, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 11: Supported models

### New models

No new models were added.

### Changed features

- The maximum bandwidth available was increased from 525 MByte/s to 625 MByte/s. Depending on the specific model, maximum or ROI frame rates can be increased.
- Power consumption was reduced for *StandbyMode*.
- TCP* option was added to *GVSPProtocol1*.

### New features

- FrameBufferOverflow* option has been added for *EventsData*.
- GevPAUSEFrameReception* and *GevPAUSEFrameReceptionActive* have been added to *GigEVision* in the *TransportLayerControl* category.

### Resolved issues

Alvium ID	Affected models	Description
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
917	G5-500m/c, G5-1240m/c, G5-2050m/c	Scenario: <i>ExposureActiveMode</i> is set to <i>FirstLine</i> for controlling a strobe light. This is saved in a user set. Issue: When this user set is loaded, the settings are displayed correctly, but the output behaves as if <i>ExposureActiveMode</i> is set to <i>FlashWindow</i> , not to <i>FirstLine</i> .
931	All	If values for <i>OffsetX</i> and <i>OffsetY</i> are changed, the position of a previously selected auto mode region is shifted.
1211	G5-500m/c	When using single frame capture with long exposure times, the camera crashes.
1253	All	Setting start values for counters does not behave as defined by the SFNC, making counters difficult to use.
1323	All	Issue: Auto white balance may create wrong color settings when the camera is pointed at dark objects. Wrong settings remain visible until auto white balance switches to correct values. Solution: The cycle time for auto white balance has been reduced.
1361	All	Scenario: <i>PtpEnable</i> is set to <i>True</i> in a viewer application. After closing and opening the viewer again, <i>PtpEnable</i> is set to <i>False</i> .

Table 12: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
1375	All	Counters behave unexpectedly. For example, lines change or counting stops.
1378	All	<b>LineStatusAll</b> outputs wrong values for the current use of GPIOs.
1418	All	Issue: <b>CounterEventSource</b> cannot be saved for all lines. Solution: Changed with issue <b>1375</b> .
1428	All	Occasionally, the camera returns 0.0.0.0 for <b>GevCurrentIPAddress</b> instead of the current IP address.
1434	All	Proper behavior: The trigger mode for Alvium cameras can be changed after the <code>cam.StartCapture()</code> command has been executed when using the Vimba X TL. Issue: The trigger mode can be changed only after the capture has been stopped by <code>camera.EndCapture()</code> .
1445	All	Sometimes the camera crashes when it receives unexpected packets by Common Vision Blox (CVB).
1483	All	After it has received a <b>DeviceReset</b> command, the camera does not reboot properly.

Table 12: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
507	All	<b>SingleFrame</b> mode does not work with NI Max: The last smaller packet and the trailer are missing.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <b>DataPacketHeaders_ByteOrder</b> test.
978	All	If an <b>AcquisitionStop</b> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<b>ChunkLineStatusAll</b> is reversed for Line 3. (The value for <b>LineStatusAll</b> in <b>DigitalIOControl</b> is correct.)

Table 13: Known issues

## FW 00.13.02.46198eb2 | update

Date of **1st document update**: 2024-Sep-16

Date of document release: 2024-Jun-12

### Supported models

Camera series	Model
Alvium G5	<b>G5-320 VSWIR</b> , G5-530 VSWIR

Table 14: Supported models

### New models

**Alvium G5-320 VSWIR**

### Changed or new features

Nothing was changed.

### Resolved issues

No known issue shave been resolved.

### Known issues

Alvium ID	Affected models	Description
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<code>ChunkLineStatusAll</code> is reversed for Line 3. (The value for <code>LineStatusAll</code> in <code>DigitalIOControl</code> is correct.)

Table 15: Known issues

## FW 00.13.02.46198eb2

Date of document release: 2024-Jun-12

### Supported models

Camera series	Model
Alvium G5	G5-530 VSWIR

Table 16: Supported models

### New models

Alvium G5-530 VSWIR

### Changed or new features

Nothing was changed.

### Resolved issues

No known issue shave been resolved.

### Known issues

Alvium ID	Affected models	Description
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1320	All	<code>ChunkLineStatusAll</code> is reversed for Line 3. (The value for <code>LineStatusAll</code> in <code>DigitalIOControl</code> is correct.)

Table 17: Known issues

## FW 00.13.01.794391f9

Date of document release: 2024-Mar-25

### Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-240m/c, G5-291m/c, G5-500m/c, G5-507m/c Pol, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 18: Supported models

### New models

No new models have been added.

### Changed features

- RFC 3927 compliant DHCP
- *FrameActive* and *ReadOutActive* options have been added for *LineSource* in *DigitalIIOControl*.
- *EventFrameTriggerMissed*, *EventPtpSyncLocked*, and *EventPtpSyncLost* options have been added for *EventsData* in *EventControl*.
- Support by RS (rolling shutter) models has been added for *EventFrameTriggerWait* for *EventsData* in *EventControl*.

### New features

- *DevicePowerSavingMode* in *DeviceControl*
- *TestPattern* in *ImageFormatControl*

### Resolved issues

No known issue have been resolved.

### Known issues

Alvium ID	Affected models	Description
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <i>AcquisitionStop</i> is executed shortly after <i>AcquisitionStart</i> , no image is transmitted.
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <i>DataPacketHeaders_ByteOrder</i> test.
978	All	If an <i>AcquisitionStop</i> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 19: Known issues (sheet 1 of 2)

Alvium ID	Affected models	Description
1320	All	ChunkLineStatusAll is reversed for Line 3. (The value for LineStatusAll in DigitalIOControl is correct.)
1324	G5-500m/c, G5-1240m/c, G5-2050m/c	This applies with AcquisitionMode set to <i>MultiFrame</i> : If cameras have been triggered by AcquisitionStart, the streaming stops when parameters are changed.

Table 19: Known issues (sheet 2 of 2)

## FW 00.13.00.71d891fe | 2nd update

Date of **2nd document update**: 2024-Feb-26

Date of 1st document update: 2023-Jan-03

Date of document release: 2023-Dec-13



### Subsequent changes

Contents for Alvium G5X models were removed with the document version for [FW 00.14.00.baba1e3c](#) on page 7.



### Dropped frames with GEV versions

Until firmware version 11.0, Alvium GigE cameras support GigE Vision Standard (GEV) V1.2. From firmware version 12.0, they support V2.2.

GEV V2.x allows to set flags `PREVIOUS_BLOCK_DROPPED` to notify the host of frames dropped on the camera. From firmware V13.0, Alvium GigE cameras drop frames on the camera when data is about to overflow the image buffer. This way, no corrupted images are sent to the camera.

Therefore, Alvium GigE cameras behave differently from previous GigE cameras by Allied Vision.

Please observe that you increase the risk of dropped frames when you use Flow Control back pressure mechanism or when you operate cameras in burst mode.

### Previous GigE cameras, such as Mako, Manta, or Prosilica GT

With GEV V1.x, `StatFrameDropped` lists frames dropped on the host.

### Alvium G1 or G5

With GEV V1.x, `StatFrameDropped` lists frames dropped on the host.

With GEV V2.x, `StatFrameDropped` lists frames dropped on the host as well.

**In addition**, `FrameStatisticsCounter` lists frames dropped **on the camera** (when `FrameStatisticsCounterSelector` is set to *Missed* or *Bad*).

This applies when Alvium GigE cameras are operated using Vimba X GigE TL.

Alvium GigE cameras switch back to GEV V1.x mode with Vimba GigE TL. This way, they can be used to easily replace previous GigE cameras in existing applications.

This note was added with document updates for [FW 00.13.01.794391f9](#) on page 11.

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-240m/c, G5-291m/c, G5-500m/c, <b>G5-507m/c Pol</b> , G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 20: Supported models

## New models

### Alvium G5-507m/c Pol

## Changed features

- Alvium G5-1240m/c and G5-2050m/c: For triggered acquisition in rolling shutter mode, maximum frame rates have been increased from ~50% to >99% of the values reached in freerun mode.
- ROI frame rates have been increased.
- Minimum exposure times have been reduced for all Alvium G5 models, except for G5-500, G5-1240, and G5-2050 models.
- Sensor binning has been added for G5-203m, G5-240m, G5-291m, G5-508m, and G5-508m Pol models.
- Related to known issue Alvium ID 253: Removed IntensityControllerOutliersBright and IntensityControllerOutliersDark from AutoModeControl1.

## New features

- 2.5GBase-T mode
- ChunkDataControl features
- ClockTriggerFrequency and ClockTriggerTimestamp to synchronize triggering for several cameras
- DeviceTemperatureStatus as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded
- EventControl features
- LensShadingCorrection features to compensate for a decrease in brightness towards the image corners
- LUTLoadAll and LUTSaveAll for 1-step access to RGB LUTs

## Resolved issues

Alvium ID	Affected models	Description
1151	All	If binning is activated after an ROI is set, the camera returns invalid values for Height and OffsetY.
1171	Alvium G5-2050m/c	If user sets are loaded where ReverseY = True and OffsetY is configured, the output image is distorted.
1178	All	Issues with GevSupportedOptionSelector: Values are not displayed in alphabetical order. The support status is not displayed correctly. Displayed FW versions do not reflect actual values.

Table 21: Resolved issues

## Known issues

Alvium ID	Affected models	Description
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
507	All	<b>SingleFrame</b> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <b>DataPacketHeaders_ByteOrder</b> test.
978	All	If an <b>AcquisitionStop</b> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
<b>1320</b>	<b>All</b>	<b>ChunkLineStatusAll is reversed for Line 3. (The value for LineStatusAll in DigitalIOControl is correct.)</b>
<b>1324</b>	<b>G5-500m/c, G5-1240m/c, G5-2050m/c</b>	<b>This applies with AcquisitionMode set to MultiFrame: If cameras have been triggered by AcquisitionStart, the streaming stops when parameters are changed.</b>

Table 22: Known issues

## FW 00.13.00.71d891fe | 1st update

Date of **1st document update**: 2024-Jan-03

Date of document release: 2023-Dec-13

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-240m/c, G5-291m/c, G5-500m/c, G5-508m/c, G5-508m/c Pol, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 23: Supported models

## New models

No new models were added.

## Changed features

- Alvium G5-1240m/c and G5-2050m/c: For triggered acquisition in rolling shutter mode, maximum frame rates have been increased from ~50% to >99% of the values reached in freerun mode.
- ROI frame rates have been increased.
- Minimum exposure times have been reduced for all Alvium G5 models, except for G5-500, G5-1240, and G5-2050 models.
- Sensor binning has been added for G5-**203m**, G5-240m, G5-291m, G5-508m, and G5-508m Pol models.
- Related to known issue Alvium ID 253: Removed **IntensityControllerOutliersBright** and **IntensityControllerOutliersDark** from **AutoModeControl**.

## New features

- 2.5GBase-T mode
- `ChunkDataControl` features
- `ClockTriggerFrequency` and `ClockTriggerTimestamp` to synchronize triggering for several cameras
- `DeviceTemperatureStatus` as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded
- `EventControl` features
- `LensShadingCorrection` features to compensate for a decrease in brightness towards the image corners
- `LUTLoadAll` and `LUTSaveAll` for 1-step access to RGB LUTs

## Resolved issues

Alvium ID	Affected models	Description
1151	All	If binning is activated after an ROI is set, the camera returns invalid values for <code>Height</code> and <code>OffsetY</code> .
1171	Alvium G5-2050m/c	If user sets are loaded where <code>ReverseY = True</code> and <code>OffsetY</code> is configured, the output image is distorted.
1178	All	Issues with <code>GevSupportedOptionSelector</code> : Values are not displayed in alphabetical order. The support status is not displayed correctly. Displayed FW versions do not reflect actual values.

Table 24: Resolved issues

## Known issues

Alvium ID	Affected models	Description
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<code>SingleFrame</code> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 25: Known issues

## FW 00.13.00.71d891fe

Date of document release: 2023-Dec-13

### Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-240m/c, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 26: Supported models

### New models

No new models were added.

### Changed features

- Alvium G5-1240m/c and G5-2050m/c: For triggered acquisition in rolling shutter mode, maximum frame rates have been increased from ~50% to >99% of the values reached in freerun mode.
- ROI frame rates have been increased.
- Minimum exposure times have been reduced for all Alvium G5 models, except for G5-500, G5-1240, and G5-2050 models.
- Sensor binning has been added for G5-240m, G5-291m, G5-508m, and G5-508m Pol models.
- Related to known issue Alvium ID 253: Removed `IntensityControllerOutliersBright` and `IntensityControllerOutliersDark` from `AutoModeControl`.

### New features

- 2.5GBase-T mode
- `ChunkDataControl` features
- `ClockTriggerFrequency` and `ClockTriggerTimestamp` to synchronize triggering for several cameras
- `DeviceTemperatureStatus` as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded
- `EventControl` features
- `LensShadingCorrection` features to compensate for a decrease in brightness towards the image corners
- `LUTLoadAll` and `LUTSaveAll` for 1-step access to RGB LUTs

### Resolved issues

Alvium ID	Affected models	Description
1151	All	If binning is activated after an ROI is set, the camera returns invalid values for <code>Height</code> and <code>OffsetY</code> .
1171	Alvium G5-2050m/c	If user sets are loaded where <code>ReverseY = True</code> and <code>OffsetY</code> is configured, the output image is distorted.
1178	All	Issues with <code>GevSupportedOptionSelector</code> : Values are not displayed in alphabetical order. The support status is not displayed correctly. Displayed FW versions do not reflect actual values.

Table 27: Resolved issues

## Known issues

Alvium ID	Affected models	Description
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
507	All	<b>SingleFrame</b> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.
978	All	If an <b>AcquisitionStop</b> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 28: Known issues

## FW 00.12.00.00611a22 | 4th update

Date of **4th document update**: 2023-Nov-21  
 Date of 3rd document update: 2023-Sep-27  
 Date of 2nd document update: 2023-Jul-19  
 Date of 1st document update: 2023-Jul-11  
 Date of document release: 2022-Jun-15



### Subsequent changes

Contents for Alvium G5X models and **TCP** option were removed with the document version for [FW 00.14.00.baba1e3c](#) on page 7.



### Removed contents

12-bit pixel formats for cameras with 10-bit sensors were already available with the initial firmware version for Alvium G5: [FW 00.08.00.6727174b](#) on page 32.



### G5-508m/c Pol (added subsequently to this document)

Support for Alvium **G5-508m/c Pol** was added with the editions for document version: [FW 00.13.00.71d891fe](#) | [2nd update](#) on 2024-Jan-17.

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-203m/c, G5-240m/c, G5-291m/c, G5-500m/c, G5-508m/c, <b>G5-508m/c Pol</b> , G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 29: Supported models

## New models

Alvium G5-203m/c, **G5-508m/c Pol**

## Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added Mono12Packed and BayerGR12Packed (G5-500c) or BayerRG12Packed (other models) for PixelFormat.

## New features

- Support for mandatory features according to GenICam SFNC V2.7
- GigE Vision V2.2 support
- Scheduled action commands: Can be used the same way as action commands.
- LutValueAll to write a complete LUT in one access
- MultipleRegions subcategory in the ImageFormatControl category. The existence of this feature and available arrangement modes depend on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added TestPendingAck in the TestControl category.

## Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
506 / 697	All	The GPIO Line 3 signal is inverted.
854	All	GPO2 trigger direction error: GPO2 can be set for both input and output, despite having only output capabilities.
890	All	GPO2 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	<b>BlackLevel1</b> is wrongly set after loading settings file: The camera incorrectly reports a <b>BlackLevel</b> value of $\theta$ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of $\theta$ .
976	All	Opto-isolated Input GPI3 status is inverted.  As a workaround, the rising edge signal must be treated as a falling edge, and vice versa.  <b>Note:</b> If you want to keep your existing setup using GPI3 unchanged, please keep the firmware version V 00.11 or below and do not update the firmware to higher versions for your Alvium G5 camera.
984	All	<b>TransferQueueMaxBlockCount</b> is incorrect when <b>TransferControlMode</b> is set to <i>Automatic</i> .
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor binning, binning cannot be set back to digital binning.

Table 30: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting <code>TransferControlMode</code> to <i>Automatic</i> , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c	DPC (defect pixel correction) is not working when <code>ReverseY</code> is turned on: For rolling shutter models, defect pixels may appear after turning on <code>ReverseY</code> .

Table 30: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.

Table 31: Known issues

## FW 00.12.00.00611a22 | 3rd update

Date of **3rd document update**: 2023-Sep-27

Date of 2nd document update: 2023-Jul-19

Date of 1st document update: 2023-Jul-11

Date of document release: 2022-Jun-15



### Subsequent changes

Contents for Alvium G5X models and `TCP` option were removed with the document version for [FW 00.14.00.baba1e3c](#) on page 7.

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, <b>G5-203m/c</b> , G5-240m/c, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 32: Supported models

## New models

**Alvium G5-203m/c**

## Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for **PixelFormat**.
- Added Mono12Packed and BayerGR12Packed (G5-500c) or BayerRG12Packed (other models) for **PixelFormat**.

## New features

- Support for mandatory features according to GenICam SFNC V2.7
- GigE Vision V2.2 support
- Scheduled action commands: Can be used the same way as action commands.
- **LutValueAll** to write a complete LUT in one access
- **MultipleRegions** subcategory in the **ImageFormatControl** category. The existence of this feature and available arrangement modes depend on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added **TestPendingAck** in the TestControl category.

## Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
506 / 697	All	The GPIO Line 3 signal is inverted.
854	All	GPO2 trigger direction error: GPO2 can be set for both input and output, despite having only output capabilities.
890	All	GPO2 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	<b>BlackLevel</b> is wrongly set after loading settings file: The camera incorrectly reports a <b>BlackLevel</b> value of $\emptyset$ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of $\emptyset$ .
976	All	Opto-isolated Input GPI3 status is inverted.  As a workaround, the rising edge signal must be treated as a falling edge, and vice versa.  <b>Note:</b> If you want to keep your existing setup using GPI3 unchanged, please keep the firmware version V 00.11 or below and do not update the firmware to higher versions for your Alvium G5 camera.
984	All	<b>TransferQueueMaxBlockCount</b> is incorrect when <b>TransferControlMode</b> is set to <b>Automatic</b> .
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor binning, binning cannot be set back to digital binning.

Table 33: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting <code>TransferControlMode</code> to <i>Automatic</i> , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c	DPC (defect pixel correction) is not working when <code>ReverseY</code> is turned on: For rolling shutter models, defect pixels may appear after turning on <code>ReverseY</code> .

Table 33: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.

Table 34: Known issues

## FW 00.12.00.00611a22 | 2nd update

Date of **2nd document update**: 2023-Jul-19

Date of 1st document update: 2023-Jul-11

Date of document release: 2022-Jun-15



### Subsequent changes

Contents for Alvium G5X models and `TCP` option were removed with the document version for [FW 00.14.00.baba1e3c](#) on page 7.

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, <b>G5-240m/c</b> , G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 35: Supported models

## New models

**Alvium G5-240m/c**

## Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for **PixelFormat**.
- Added Mono12Packed and BayerGR12Packed (G5-500c) or BayerRG12Packed (other models) for **PixelFormat**.

## New features

- Support for mandatory features according to GenICam SFNC V2.7
- GigE Vision V2.2 support
- Scheduled action commands: Can be used the same way as action commands.
- **LutValueAll** to write a complete LUT in one access
- **MultipleRegions** subcategory in the **ImageFormatControl** category. The existence of this feature and available arrangement modes depend on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added **TestPendingAck** in the **TestControl** category.

## Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
506 / 697	All	The GPIO Line 3 signal is inverted.
854	All	GPO2 trigger direction error: GPO2 can be set for both input and output, despite having only output capabilities.
890	All	GPO2 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	<b>BlackLevel1</b> is wrongly set after loading settings file: The camera incorrectly reports a <b>BlackLevel</b> value of $\emptyset$ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of $\emptyset$ .
976	All	Opto-isolated Input GPI3 status is inverted. As a workaround, the rising edge signal must be treated as a falling edge, and vice versa. <b>Note:</b> If you want to keep your existing setup using GPI3 unchanged, please keep the firmware version V 00.11 or below and do not update the firmware to higher versions for your Alvium G5 camera.
984	All	<b>TransferQueueMaxBlockCount</b> is incorrect when <b>TransferControlMode</b> is set to <b>Automatic</b> .
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor binning, binning cannot be set back to digital binning.

Table 36: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting <code>TransferControlMode</code> to <i>Automatic</i> , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c	DPC (defect pixel correction) is not working when <code>ReverseY</code> is turned on: For rolling shutter models, defect pixels may appear after turning on <code>ReverseY</code> .

Table 36: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.

Table 37: Known issues

## FW 00.12.00.00611a22 | 1st update

Date of **document update**: 2023-Jul-11

Date of document release: 2022-Jun-15



### Subsequent changes

Contents for Alvium G5X models and `TCP` option were removed with the document version for [FW 00.14.00.baba1e3c](#) on page 7.

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 38: Supported models

## New models

No new models were added.

## Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for **PixelFormat**.
- Added Mono12Packed and BayerGR12Packed (G5-500c) or BayerRG12Packed (other models) for **PixelFormat**.

## New features

- Support for mandatory features according to GenICam SFNC V2.7
- GigE Vision V2.2 support
- Scheduled action commands: Can be used the same way as action commands.
- **LutValueAll** to write a complete LUT in one access
- **MultipleRegions** subcategory in the **ImageFormatControl** category. The existence of this feature and available arrangement modes depend on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added **TestPendingAck** in the TestControl category.

## Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
506 / 697	All	The GPIO Line 3 signal is inverted.
854	All	GPO2 trigger direction error: GPO2 can be set for both input and output, despite having only output capabilities.
890	All	GPO2 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	<b>BlackLevel</b> is wrongly set after loading settings file: The camera incorrectly reports a <b>BlackLevel</b> value of $\emptyset$ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of $\emptyset$ .
976	All	Opto-isolated Input GPI3 status is inverted.  As a workaround, the rising edge signal must be treated as a falling edge, and vice versa.  <b>Note:</b> If you want to keep your existing setup using GPI3 unchanged, please keep the firmware version V 00.11 or below and do not update the firmware to higher versions for your Alvium G5 camera.
984	All	<b>TransferQueueMaxBlockCount</b> is incorrect when <b>TransferControlMode</b> is set to <b>Automatic</b> .
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor binning, binning cannot be set back to digital binning.

Table 39: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting <code>TransferControlMode</code> to <i>Automatic</i> , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c	DPC (defect pixel correction) is not working when <code>ReverseY</code> is turned on: For rolling shutter models, defect pixels may appear after turning on <code>ReverseY</code> .

Table 39: Resolved issues (sheet 2 of 2)

## Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<i>SingleFrame</i> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.

Table 40: Known issues

## FW 00.12.00.00611a22

Date of document release: 2023-Jun-15

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1242m/c, G5-1620m/c, G5-2040m/c, G5-2050m/c, G5-2460m/c

Table 41: Supported models

## New models

No new models were added.

## Changed features

- Added Sensor option for `BinningSelector`. The existence of this option depends on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for `PixelFormat`.
- Added `Mono12Packed` and `BayerGR12Packed` (G5-500c) or `BayerRG12Packed` (other models) for `PixelFormat`.

## New features

- Support for mandatory features according to GenICam SFNC V2.7
- GigE Vision V2.2 support
- Scheduled action commands: Can be used the same way as action commands.
- **LutValueAll** to write a complete LUT in one access
- **MultipleRegions** subcategory in the **ImageFormatControl** category. The existence of this feature and available arrangement modes depend on the sensor. Please see the Alvium G5 User Guide or model data sheets.
- Added **TestPendingAck** in the **TestControl** category.

## Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
506 / 697	All	The GPIO Line 3 signal is inverted.
854	All	GPO2 trigger direction error: GPO2 can be set for both input and output, despite having only output capabilities.
890	All	GPO2 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	<b>BlackLevel</b> is wrongly set after loading settings file: The camera incorrectly reports a <b>BlackLevel</b> value of $\emptyset$ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of $\emptyset$ .
976	All	Opto-isolated Input GPI3 status is inverted.  As a workaround, the rising edge signal must be treated as a falling edge, and vice versa.  <b>Note:</b> If you want to keep your existing setup using GPI3 unchanged, please keep the firmware version V 00.11 or below and do not update the firmware to higher versions for your Alvium G5 camera.
984	All	<b>TransferQueueMaxBlockCount</b> is incorrect when <b>TransferControlMode</b> is set to <b>Automatic</b> .
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor binning, binning cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting <b>TransferControlMode</b> to <b>Automatic</b> , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c	DPC (defect pixel correction) is not working when <b>ReverseY</b> is turned on: For rolling shutter models, defect pixels may appear after turning on <b>ReverseY</b> .

Table 42: Resolved issues

## Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.
507	All	<code>SingleFrame</code> mode does not work with NI Max: The last smaller packet and the trailer are missing.
856	All	DHCP server timeout issue: Acquisition may stop. Typically, temperature status still works.
961	All	Running with GigE Validation Framework v2.2 RC4, Alvium GigE cameras failed <code>DataPacketHeaders_ByteOrder</code> test.

Table 43: Known issues

## FW 00.11.00.9cf0c21e | update

Date of **document update**: 2023-Jan-09

Date of document release: 2022-Nov-14

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, <b>G5-1242m/c</b> , G5-1620m/c, <b>G5-2040m/c</b> , G5-2050m/c, G5-2460m/c

Table 44: Supported models

## New models

Alvium G5-510m/c, **G5-1242m/c**, **G5-2040m/c**

## Changed features

- Increments for `OffsetX` and `OffsetY` for camera models with Sony IMX global shutter sensor
- Reduced options for `SoftwareSignalSelector`

## New features

- Counter features in the `CounterAndTimerControl` category
- Ethernet Flow Control (configurable on NICs and Ethernet devices)
- `LineDebounceDuration` and `LineDebounceMode` in the `DeviceControl` category
- `SequencerControl` category

## Resolved issues

Alvium ID	Affected models	Description
696	All	Changing output signal when line is off has been fixed.
806	Color models	Error in color transformation has been fixed.

Table 45: Resolved issues

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 46: Known issues

## FW 00.11.00.9cf0c21e

Date of document release: 2022-Nov-14

## Supported models

Camera series	Model
Alvium G5	G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-510m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 47: Supported models

## New models

Alvium G5-510m/c

## Changed features

- Increments for **OffsetX** and **OffsetY** for camera models with Sony IMX global shutter sensor
- Reduced options for **SoftwareSignalSelector**

## New features

- Counter features in the **CounterAndTimerControl** category
- Ethernet Flow Control (configurable on NICs and Ethernet devices)
- **LineDebounceDuration** and **LineDebounceMode** in the **DeviceControl** category
- **SequencerControl** category

## Resolved issues

Alvium ID	Affected models	Description
696	All	Changing output signal when line is off has been fixed.
806	Color models	Error in color transformation has been fixed.

Table 48: Resolved issues

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 49: Known issues

## FW 00.10.00.6c9062b1 | update

Date of **document update**: 2022-Aug-16

Date of document release: 2022-Jul-20

## Supported models

Camera series	Model
Alvium G5	G5-030 VSWIR, G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 50: Supported models

## New models

Alvium G5-052m/c, G5-291m/c, G5-812 UV

## Changed features

In previous firmware versions, **BlackLevel** values were adjusted to the pixel formats: 8-bit values for 8-bit pixel formats, 10 for 10, and 12 for 12. With this firmware update, the representation of **BlackLevel** is independent from the pixel format: 12-bit values are used for all pixel formats. Therefore, you may have to adjust your settings used with previous firmware versions.

The maximum value for **Gain** was increased from 24 to 48 dB for all models with Sony IMX global shutter sensors. **Added information**: For Alvium G5-030 VSWIR and G5-130 VSWIR, the maximum **Gain** value was increased to 42 dB.

**Added information**: FPNC was disabled for Alvium G5-030 VSWIR and G5-130 VSWIR models.

## New features

- **ActionControl** category
- **GVCP** subcategory
- **PTPControl** category
- **SerialHub** subcategory for I/O control by UART
- **SoftwareSignalControl** subcategory to enable external devices to trigger actions within the camera by software commands (The features in this category are still in the testing phase and not fully validated.)

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExpsoureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 51: Known issues

## FW 00.10.00.6c9062b1

Date of document release: 2022-Jul-20

**Note:** Data of this note entry is outdated. Please see [FW 00.10.00.6c9062b1 | update](#) on page 29.

## Supported models

Camera series	Model
Alvium G5	G5-030 VSWIR, G5-052m/c, G5-130 VSWIR, G5-291m/c, G5-500m/c, G5-508m/c, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 52: Supported models

## New models

Alvium G5-052m/c, G5-291m/c, G5-812 UV

## Changed features

In previous firmware versions, **BlackLevel** values were adjusted to the pixel formats: 8-bit values for 8-bit pixel formats, 10 for 10, and 12 for 12. With this firmware update, the representation of **BlackLevel** is independent from the pixel format: 12-bit values are used for all pixel formats. Therefore, you may have to adjust your settings used with previous firmware versions.

The maximum value for **Gain** was increased from 24 to 48 dB for all models with Sony IMX global shutter sensors.

## New features

- **ActionControl** category
- **GVCP** subcategory
- **PTPControl** category
- **SerialHub** subcategory for I/O control by UART
- **SoftwareSignalControl** subcategory to enable external devices to trigger actions within the camera by software commands (The features in this category are still in the testing phase and not fully validated.)

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExpsoureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 53: Known issues

## FW 00.08.01.13f227a4

Date of document release: 2022-May-16

## Supported models

Camera series	Model
Alvium G5	G5-500m/c

Table 54: Supported models

## New models

No new models were added.

## New features

No features were added.

## Resolved issues

Alvium ID	Affected models	Description
775	G5-500c	Wrong <b>AutoWhiteBalance</b> measurement was fixed.

Table 55: Resolved issues

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.

Table 56: Known issues

## FW 00.08.00.6727174b

Date of document release: 2022-Mar-21

## Supported models

Camera series	Model
Alvium G5	G5-030 VSWIR, G5-130 VSWIR, G5-500m/c, G5-508m/c, G5-811m/c, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 57: Supported models

## New models

Alvium G5-030 VSWIR, G5-130 VSWIR, G5-500m/c, G5-508m/c, G5-811m/c, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

## New features

Initial feature set.

## Known issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If <b>ShutterMode</b> is changed after image acquisition, the <b>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.

Table 58: Known issues

## 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

**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

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

Allied Vision Technologies Shanghai Co Ltd.  
B-510, Venture International Business Park  
2679 Hechuan Road  
Minhang District, Shanghai 201103  
People's Republic of China  
T// +86 21 64861133

**Japan**

Allied Vision Technologies  
Yokohama Portside Bldg. 10F  
8-1 Sakae-cho, Kanagawa-ku  
Yokohama-shi, Kanagawa, 221-0052  
T// +81 (0) 45 577 9527

**Singapore**

Allied Vision Technologies Asia Pte. Ltd  
82 Playfair Rd, #07-01 D'Lithium  
Singapore 368001  
T// +65 6634 9027

## 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 © 2026 Allied Vision Technologies GmbH. All rights reserved.