Allied Vision

5GigE Firmware Release Notes

Alvium G5 cameras

Helpful downloads

- Operating and updating cameras: Alvium G5 Cameras User Guide
- Features: Alvium Features Reference
  www.alliedvision.com/en/support/technical-documentation/alvium-gige-documentation

- Firmware files
  www.alliedvision.com/en/support/firmware

- Firmware updater, included in **Vimba Suite**
  www.alliedvision.com/software

Latest firmware version for your Alvium G5 model

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

Models	FW version	FW release date
Alvium G5-030 VSWIR, 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	FW 00.11.00.9cf0c21e | updated	2022-Nov-14

Table 3: Latest firmware version by model

FW 00.11.00.9cf0c21e | updated

Date of **note updates**: 2023-Jan-09
Date of firmware release: 2022-Nov-14

Supported models

Camera family	Model
Alvium	Alvium G5-030 VSWIR, 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 4: 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 5: Resolved issues

Known issues

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

Table 6: Known issues

FW 00.11.00.9cf0c21e

Release date: 2022-Nov-14

Supported models

Camera family	Model
Alvium	Alvium G5-030 VSWIR, 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 7: 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 8: Resolved issues

Known issues

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

Table 9: Known issues

FW 00.10.00.6c9062b1 | updated notes

Date of **note updates**: 2022-Aug-16
Date of firmware release: 2022-Jul-20

Supported models

Camera family	Model
Alvium	Alvium 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 10: 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 `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	G5-500m/c, G5-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 11: Known issues

FW 00.10.00.6c9062b1

Release date: 2022-Jul-20

Note: Data of this note entry is outdated. Please see FW 00.10.00.6c9062b1 | updated notes on page 4.

Supported models

Camera family	Model
Alvium	Alvium 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 12: 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 `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	G5-500m/c, G5-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
506 / 697	All	The GPIO Line 3 signal is inverted.

Table 13: Known issues

FW 00.08.01.13f227a4

Release date: 2022-May-16

Supported models

Camera family	Model
Alvium	Alvium G5-500m/c

Table 14: 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 `AutoWhiteBalance` measurement was fixed.

Known issues

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

Table 15: Known issues

FW 00.08.00.6727174b

Release date: 2022-Mar-21

Supported models

Camera family	Model
Alvium	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

Table 16: 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 `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	G5-500m/c, G5-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 17: Known issues

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www.alliedvision.com/en/support
www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/-rma

Current firmware and release notes
https://www.alliedvision.com/en/support/firmware-downloads

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