

5GIGE FIRMWARE RELEASE NOTES

Alvium G5/G5X cameras

2023-Nov-21 V00.12.00.00611a22



Helpful downloads

- Operating and updating cameras: Alvium G5/G5X 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 X www.alliedvision.com/en/products/software/vimba-x-sdk

Latest firmware version for your Alvium G5/G5X model

The following table lists the latest firmware version for your Alvium G5/G5X camera.

Models	FW version	Document release
Alvium G5-030 VSWIR, G5-052m/c, G5-130 VSWIR, G5-203m/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, G5X-2050m/c, G5X-2460m/c, G5X-2460m/c	FW 00.12.00.00611a22 4th update	2023-Nov-21

Table 3: Latest firmware version by model



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



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 17.

Supported models

Camera family	Model
Alvium	Alvium G5-030 VSWIR, 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, G5X-2050m/c, G5-2460m/c, G5X-2460m/c

Table 4: Supported models

New model

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/G5X User Guide or model data sheets.
- Added Mono12Packed and BayerGR12Packed (G5-500c) or BayerRG12Packed (other models) for PixelFormat.

New features

- TCP operation mode for G5X models (in addition to UDP mode available with all G5 models)
- 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/G5X User Guide or model data sheets.
- Added TestPendingAck in the TestControl category.



Resolved issuesKnown issues

Alvium ID	Affected models	Description
251	G5/G5X-2050m/c	If ShutterMode is changed after image acquisition, the ExpsoureActive 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	GP02 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	BlackLevel is wrongly set after loading settings file: The camera incorrectly reports a BlackLevel value of θ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of θ .
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. Note: 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	TransferQueueMaxBlockCount is incorrect when TransferControlMode is set to Automatic.
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor bining, bining cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting TransferControlMode to Automatic , it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	DPC (defect pixel correction) is not working when ReverseY is turned on: For rolling shutter models, defect pixels may appear after turning on ReverseY .

Table 5: Resolved issues

Alvium ID	Affected models	Description
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.
507	All	SingleFrame 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 DataPacketHeaders_ByteOrder test.

Table 6: 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

Supported models

Camera family	Model
Alvium	Alvium G5-030 VSWIR, 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, G5X-2050m/c, G5-2460m/c, G5X-2460m/c

Table 7: Supported models

New model

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/G5X 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

- TCP operation mode for G5X models (in addition to UDP mode available with all G5 models)
- 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/G5X User Guide or model data sheets.
- Added TestPendingAck in the TestControl category.

Alvium ID	Affected models	Description
251	G5/G5X-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> 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.

Table 8: Resolved issues (Sheet 1 of 2)



Alvium ID	Affected models	Description
890	All	GP02 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	BlackLevel is wrongly set after loading settings file: The camera incorrectly reports a BlackLevel value of θ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of θ .
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. Note: 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	TransferQueueMaxBlockCount is incorrect when TransferControlMode is set to Automatic.
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor bining, bining cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting TransferControlMode to Automatic, it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	DPC (defect pixel correction) is not working when ReverseY is turned on: For rolling shutter models, defect pixels may appear after turning on ReverseY .

Table 8: Resolved issues (Sheet 2 of 2)

Alvium ID	Affected models	Description
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.
507	All	SingleFrame 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 DataPacketHeaders_ByteOrder test.

Table 9: 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

Supported models

Camera family	Model
Alvium	Alvium G5-030 VSWIR, G5-052m/c, G5-130 VSWIR, 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, G5X-2050m/c, G5-2460m/c, G5X-2460m/c

Table 10: Supported models

New model

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/G5X 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

- TCP operation mode for G5X models (in addition to UDP mode available with all G5 models)
- 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/G5X User Guide or model data sheets.
- Added TestPendingAck in the TestControl category.

Alvium ID	Affected models	Description
251	G5/G5X-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> 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	GP02 is high during camera boot up for several seconds (usually 1 to 3 s).

Table 11: Resolved issues (Sheet 1 of 2)



Alvium ID	Affected models	Description
967	All	BlackLevel is wrongly set after loading settings file: The camera incorrectly reports a BlackLevel value of θ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of θ .
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. Note: 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	TransferQueueMaxBlockCount is incorrect when TransferControlMode is set to Automatic.
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor bining, bining cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting TransferControlMode to Automatic, it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	DPC (defect pixel correction) is not working when ReverseY is turned on: For rolling shutter models, defect pixels may appear after turning on ReverseY .

Table 11: Resolved issues (Sheet 2 of 2)

Alvium ID	Affected models	Description
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.
507	All	SingleFrame 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 DataPacketHeaders_ByteOrder test.

Table 12: Known issues



FW 00.12.00.00611a22 | 1st update

Date of **document update**: 2023-Jul-11 Date of document release: 2022-Jun-15

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, G5-2050m/c, G5-2460m/c

Table 13: Supported models

New models

Alvium G5X-2050m/c, G5X-2460m/c

Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium G5/G5X 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

- TCP operation mode for G5X models (in addition to UDP mode available with all G5 models)
- 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/G5X User Guide or model data sheets.
- Added TestPendingAck in the TestControl category.

Alvium ID	Affected models	Description
251	G5/G5X-2050m/c	If ShutterMode is changed after image acquisition, the ExpsoureActive 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	GP02 is high during camera boot up for several seconds (usually 1 to 3 s).

Table 14: Resolved issues (Sheet 1 of 2)



Alvium ID	Affected models	Description
967	All	BlackLevel is wrongly set after loading settings file: The camera incorrectly reports a BlackLevel value of θ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of θ .
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.
		Note : 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	TransferQueueMaxBlockCount is incorrect when TransferControlMode is set to Automatic.
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor bining, bining cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting TransferControlMode to Automatic, it cannot be deactivated without performing a power cycle.
1041	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	DPC (defect pixel correction) is not working when ReverseY is turned on: For rolling shutter models, defect pixels may appear after turning on ReverseY .

Table 14: Resolved issues (Sheet 2 of 2)

Alvium ID	Affected models	Description
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c, G5X-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.
507	All	SingleFrame 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 DataPacketHeaders_ByteOrder test.

Table 15: Known issues



FW 00.12.00.00611a22

Date of document release: 2023-Jun-15

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 16: 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.

Alvium ID	Affected models	Description
251	G5-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> 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	GP02 is high during camera boot up for several seconds (usually 1 to 3 s).
967	All	BlackLevel is wrongly set after loading settings file: The camera incorrectly reports a BlackLevel value of θ , requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of θ .

Table 17: Resolved issues (Sheet 1 of 2)



Alvium ID	Affected models	Description
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. Note: 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	TransferQueueMaxBlockCount is incorrect when TransferControlMode is set to Automatic.
996	G5-510m/c	Sensor binning not working after digital binning has been used: After activating and deactivating sensor bining, bining cannot be set back to digital binning.
997	G5-510m/c	Disable of burst not working: Once the burst mode is activated by setting TransferControlMode to Automatic, 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 ReverseY is turned on: For rolling shutter models, defect pixels may appear after turning on ReverseY .

Table 17: Resolved issues (Sheet 2 of 2)

Alvium ID	Affected models	Description
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.
507	All	SingleFrame 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 DataPacketHeaders_ByteOrder test.

Table 18: Known issues



FW 00.11.00.9cf0c21e | updated

Date of **document update**: 2023-Jan-09 Date of document 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 19: 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 20: Resolved 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, G5-1240m/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 21: Known issues



FW 00.11.00.9cf0c21e

Date of document 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, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 22: 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 23: Resolved issues

Alvium ID	Affected models	Description
251	G5-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> signal disappears.
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/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 24: Known issues



FW 00.10.00.6c9062b1 | updated notes

Date of **document update**: 2022-Aug-16 Date of document 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 25: 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.)

Alvium ID	Affected models	Description
251	G5-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> signal disappears.
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/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 26: 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 | updated notes on page 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, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c

Table 27: 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.)

Alvium ID	Affected models	Description
251	G5-2050m/c	If ShutterMode is changed after image acquisition, the <i>ExpsoureActive</i> signal disappears.
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/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 28: Known issues



FW 00.08.01.13f227a4

Date of document release: 2022-May-16

Supported models

Camera family	Model
Alvium	Alvium G5-500m/c

Table 29: Supported models

New models

No new models were added.

New features

No features were added.

Resolved issues

A	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 <i>ExpsoureActive</i> signal disappears.
253	All	Auto mode feature IntensityControllerOutliersDark does not work properly.
338	G5-500m/c, G5-1240m/c, G5-2050m/c	If AcquisitionStop is executed shortly after AcquisitionStart, no image is transmitted.

Table 30: Known issues



FW 00.08.00.6727174b

Date of document release: 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 31: 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.

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

Table 32: Known issues



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Current firmware and release notes

https://www.alliedvision.com/en/support/firmware-downloads

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