

## 5GIGE FIRMWARE RELEASE NOTES

### Alvium G5 cameras

2022-Aug-16  
V00.10.00.6c9062b1



#### 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](http://www.alliedvision.com/en/support/technical-documentation/alvium-gige-documentation)
- Firmware files  
[www.alliedvision.com/en/support/firmware](http://www.alliedvision.com/en/support/firmware)
- Firmware updater, included in **Vimba Suite**  
[www.alliedvision.com/software](http://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, G5-511m/c, G5-811m/c, G5-812 UV, G5-1240m/c, G5-1620m/c, G5-2050m/c, G5-2460m/c	<a href="#">FW 00.10.00.6c9062b1</a>   <a href="#">updated notes</a>	2022-Jul-20

Table 3: Latest firmware version by model

## 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 4: 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
- **PTPCControl** 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>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/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 5: 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 2.

### 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 6: 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
- **PTPCControl** 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>ExposureActive</b> signal disappears.
253	All	Auto mode feature <b>IntensityControllerOutliersDark</b> does not work properly.
338	G5-500m/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 7: Known issues

## FW 00.08.01.13f227a4

Release date: 2022-May-16

### Supported models

Camera family	Model
Alvium	Alvium G5-500m/c

Table 8: 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 <code>AutoWhiteBalance</code> measurement was fixed.

### Known issues

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

Table 9: 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 10: 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, G5-2050m/c	If <b>AcquisitionStop</b> is executed shortly after <b>AcquisitionStart</b> , no image is transmitted.

Table 11: 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)

**Current firmware and release notes**

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

## Offices

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

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

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

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

**Singapore**

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

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

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

**USA**

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