Allied Vision

USB Firmware Release Notes

Alvium 1800 U cameras

2025-Sep-09
V00.14.03.4646d35d

Helpful downloads

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

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

- Firmware updater, included in **Vimba X**
  www.alliedvision.com/en/products/software/vimba-x-sdk

Firmware numbering convention

Firmware versions consist of these sections:
V[Customer version].[Main version].[Sub version].[Build version].

For example, V00.07.00.81db3896 consists of:

- Customer version = 00
- Main version = 7
- Sub version = 0
- Build version = 81db3896

V00.xx.xx.xxxxxxxx represents the standard version,
any other value for the **customer version** represents a customized firmware version.

Available firmware versions for your Alvium USB model

See Latest firmware version for your Alvium USB model on page 2 and
Minimum firmware versions by model on page 3.

Latest firmware version for your Alvium USB model

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

Models	FW version	Document release
1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-320 VSWIR, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-530 VSWIR, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c	FW 00.14.03.4646d35d	2025-Sep-09
1800 U-131m/c, 1800 U-192m/c	FW 00.13.01.794391f9	2024-Mar-22
1800 U-050m/c[1]	FW 00.11.00.9cf0c21e | updated notes	2022-Dec-19

[1] Alvium 1800 U-050 models are delivered with firmware 00.11.00.9cf0c21e. The firmware version cannot be updated to later versions.

Table 1: Latest firmware version by model

Minimum supported firmware version

See Minimum firmware versions by model on page 3.

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 6).

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.

1800 U-	Minimum FW	1800 U-	Minimum FW	1800 U-	Minimum FW
030 VSWIR	00.11.00	240m/c	00.11.00	530 VSWIR	00.13.02
040m/c	00.11.00	291m/c	00.11.00	811m/c	00.11.00
050m/c	00.11.00	319m/c	00.11.00	812 UV	00.11.00
052m/c	00.11.00	320 VSWIR	00.13.02	895m/c	00.12.00
120m/c	00.11.00	500m/c	00.11.00	1236m/c	00.11.00
130 VSWIR	00.11.00	501m/c NIR	00.11.00	1240m/c	00.11.00
131m/c	00.13.01	507m/c	00.11.00	1242m/c	00.11.00
158m/c	00.11.00	507m/c Pol	00.13.00	1620m/c	00.11.00
192m/c	00.13.01	508m/c	00.11.00	2040m/c	00.11.00
203m/c	00.12.00	508m/c Pol	00.13.00	2050m/c	00.11.00
234m/c	00.11.00	510m/c	00.11.00	2460m/c	00.11.00
235m/c	00.11.00	511m/c	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 for firmware recovery.

FW 00.14.03.4646d35d

Date of document release: 2025-Sep-09

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-320 VSWIR, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-530 VSWIR, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 3: 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
1614	All	After streaming has been stopped, the camera crashes (Vimba X error codes: -12 VmbErrorTimeout,-22 VmbError GenTLUnspecified). The camera must be repowered for operation.
1573	U-500m/c, U-501 NIR	Rarely, image artifacts occur.

Table 3: Resolved issues

Known issues

Alvium ID	Affected models	Description
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 4: Known issues

FW 00.14.01.d83c7207

Date of document release: 2025-Feb-13

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-320 VSWIR, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-530 VSWIR, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 5: 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
1326	U-1240m/c, U-2050m/c	The image turns purple when cameras receive an external trigger.
1287	All	`Gain` values are not set properly when changed in a fast sequence.

Table 6: Resolved issues

Known issues

Alvium ID	Affected models	Description
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 7: Known issues

FW 00.14.00.baba1e3c

Date of document release: 2024-Oct-16

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-320 VSWIR, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-530 VSWIR, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 8: Supported models

New models

No new models were added.

Changed features

Power consumption was reduced for *StandbyMode*.

New features

FrameBufferOverflow option has been added for `EventsData`.

Resolved issues

Alvium ID	Affected models	Description
917	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	Scenario: `ExposureActiveMode` is set to *FirstLine* 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 `ExposureActiveMode` is set to *FlashWindow*, not to *FirstLine*.
931	All	If values for `OffsetX` and `OffsetY` are changed, the position of a previously selected auto mode region is shifted.
1211	U-500m/c, U-501 m/c NIR	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.
1375	All	Counters behave unexpectedly. For example, lines change or counting stops.
1378	All	`LineStatusAll` outputs wrong values for the current use of GPIOs.
1418	All	Issue: `CounterEventSource` cannot be saved for all lines. Solution: Changed with issue **1375**.

Table 9: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
1434	All	Proper behavior: The trigger mode for Alvium cameras can be changed after the `cam.StartCapture()` 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 `camera.EndCapture().`
1483	All	After it has received a **DeviceReset** command, the camera does not reboot properly.

Table 9: Resolved issues (sheet 2 of 2)

Known issues

Alvium ID	Affected models	Description
978	All	If an **AcquisitionStop** command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 10: Known issues

FW 00.13.02.46198eb2 | 1st update

Date of **1st document update**: 2024-Sep-16
Date of document release: 2024-Jun-12

Supported models

Camera series	Model
Alvium 1800 U	**1800 U-320 VSWIR**, 1800 U-530 VSWIR

Table 11: Supported models

New model
Alvium 1800 U-320 VSWIR

Changed or new features
Nothing was changed.

Resolved issues
No known issue shave been resolved.

Known issues

Alvium ID	Affected models	Description
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 12: Known issues

FW 00.13.02.46198eb2

Date of document release: 2024-Jun-12

Supported models

Camera series	Model
Alvium 1800 U	1800 U-530 VSWIR

Table 13: Supported models

New model

Alvium 1800 U-530 VSWIR

Changed or new features

Nothing was changed.

Resolved issues

No known issue shave been resolved.

Known issues

Alvium ID	Affected models	Description
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 14: Known issues

FW 00.13.01.794391f9

Date of document release: 2024-Mar-22

> **Added contents**
>
> Alvium 1800 U-131m/c and U-192m/c were released with this very firmware version. Therefore, these models were added to this section as "new models" with the document update on 2024-Jun-26.

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-**131m/c,** U-158m/c, **U-192m/c**, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 15: Supported models

New models

Alvium 1800 U-131 and 1800 U-192 were added.

Changed features

- *FrameActive* and *ReadOutActive* options have been added for `LineSource` in `DigitalIOControl`.
- *StandbyMode* option has been added for `DevicePowerSavingMode` in `DeviceControl`.

New features

- EventControl
- `TestPattern` in `ImageFormatControl`

Resolved issues

No known issues have been resolved.

Known issues

Alvium ID	Affected models	Description
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.
1324	U-500m/c, U-501 NIR, U-1240m/c, U-2050m/c	This applies with `AcquisitionMode` set to *MultiFrame*: If cameras have been triggered by `AcquisitionStart`, the streaming stops when parameters are changed.

Table 16: Known issues

FW 00.13.00.71d891fe | 2nd update

Date of **2nd document update**: 2024-Feb-26
Date of 1st document update: 2024-Jan-04
Date of document release: 2023-Dec-14

Removed contents

Alvium 1800 U-131m/c and U-192m/c were released with FW 00.13.01.794391f9 on page 9. Therefore, contents for these models were removed from this section with the document update on 2024-Jun-26.

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, **U-507m/c Pol**, U-508m/c, **U-508m/c Pol**, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 17: Supported models

New models

Alvium 1800 U-507m/c Pol, U-508m/c Pol

Changed features

- Alvium 1800 U-1240m/c and U-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.
- Minimum exposure times have been reduced for all Alvium 1800 U models, except for 1800 U-120, U-500, U-501 NIR, U-1240, and U-2050 models.
- Sensor binning has been added for 1800 U-158m, U-203m, U-240m, U-291m, and U-508m models.
- Related to known issue Alvium ID 253: Removed IntensityControllerOutliersBright and IntensityControllerOutliersDark from AutoModeControl.

New features

- `ChunkDataControl` features
- `DeviceTemperatureStatus` as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded
- `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 1800 U-2050m/c	If user sets are loaded where `ReverseY` = *True* and `OffsetY` is configured, the output image is distorted.

Table 18: Resolved issues

Known issues

Alvium ID	Affected models	Description
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.
1324	**U-500m/c, U-501 NIR, U-1240m/c, U-2050m/c**	**This applies with AcquisitionMode set to MultiFrame: If cameras have been triggered by AcquisitionStart, the streaming stops when parameters are changed.**

Table 19: Known issues

FW 00.13.00.71d891fe | 1st update

Date of **1st document update**: 2024-Jan-04
Date of document release: 2023-Dec-14

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-131m/c, U-158m/c, U-192m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 20: Supported models

New model

No new models were added.

Changed features

- Alvium 1800 U-1240m/c and U-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.
- **Minimum exposure times have been reduced for all Alvium 1800 U models, except for 1800 U-120, U-500, U-501 NIR, U-1240, and U-2050 models.**
- Sensor binning has been added for 1800 U-158m, **U-203m**, U-240m, U-291m, and U-508m models.
- Related to known issue Alvium ID 253: Removed `IntensityControllerOutliersBright` and `IntensityControllerOutliersDark` from `AutoModeControl`.

New features

- `ChunkDataControl` features
- `DeviceTemperatureStatus` as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded

- `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	U-2050m/c	If user sets are loaded where `ReverseY` = *True* and `OffsetY` is configured, the output image is distorted.

Table 21: Resolved issues

Known issues

Alvium ID	Affected models	Description
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 22: Known issues

FW 00.13.00.71d891fe

Date of document release: 2023-Dec-14

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-131m/c, U-130 VSWIR, U-158m/c, U-192m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 23: Supported models

New model

No new models were added.

Changed features

- Alvium 1800 U-1240m/c and U-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.
- Sensor binning has been added for 1800 U-158m,U-240m, U-291m, and U-508m models.
- Related to known issue Alvium ID 253: Removed `IntensityControllerOutliersBright` and `IntensityControllerOutliersDark` from `AutoModeControl`.

New features

- `ChunkDataControl` features
- `DeviceTemperatureStatus` as an indicator to take measures before the camera is shut off when the maximum operating temperature is exceeded
- `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	U-2050m/c	If user sets are loaded where `ReverseY` = *True* and `OffsetY` is configured, the output image is distorted.

Table 24: Resolved issues

Known issues

Alvium ID	Affected models	Description
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
978	All	If an `AcquisitionStop` command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 25: Known issues

FW 00.12.00.00611a22 | 3rd update

Date of **3rd document update**: 2023-Nov-21
Date of 2nd document update: 2023-Sep-27
Date of 1st document update: 2023-Jul-05
Date of document release: 2023-Jun-15

Removed contents

- Alvium 1800 U-131m/c and 1800 U-192m/c were released with FW 00.13.01.794391f9 on page 9. Therefore, contents for these models were removed from this section with the document update on 2024-Jun-26.
- 12-bit pixel formats for cameras with 10-bit sensors were already added with FW 00.08.00.6727174b on page 23.
- 12-bit Packed pixel formats were added only for Alvium G1 and G5.

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-203m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-507m/c Pol, U-508m/c, U-508m/c Pol, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 26: Supported models

New models

Alvium 1800 U-203m/c, U-895m/c

Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium USB Cameras User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for `PixelFormat`.
- Added *Mono12Packed* and *BayerGR12Packed* (1800 U-120c, U-500c, U-501c NIR) or *BayerRG12Packed* (other models) for `PixelFormat`.

New features

- Support for mandatory features according to GenICam SFNC V2.7
- `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 USB Cameras User Guide or model data sheets.

Resolved issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
967	All	`BlackLevel` is wrongly set after loading settings file: The camera incorrectly reports a `BlackLevel` value of *0*, requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of *0*.
1041	U-500m/c, U-501m/c NIR, U-1240m/c, U-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 27: Resolved issues

Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.

Table 28: Known issues (sheet 1 of 2)

Alvium ID	Affected models	Description
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 28: Known issues (sheet 2 of 2)

FW 00.12.00.00611a22 | 2nd update

Date of **2nd document update**: 2023-Sep-27
Date of 1st document update: 2023-Jul-05
Date of document release: 2023-Jun-15

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, **U-131m/c**, U-158m/c, **U-192m/c**, **U-203m/c**, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-895m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 29: Supported models

New models
Alvium 1800 U-131m/c, U-192m/c, U-203m/c, U-895m/c

Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium USB Cameras User Guide or model data sheets.
- Added 12-bit sensor formats for cameras with 10-bit sensors for `PixelFormat`.
- Added *Mono12Packed* and *BayerGR12Packed* (1800 U-120c, U-500c, U-501c NIR) or *BayerRG12Packed* (other models) for `PixelFormat`.

New features

- Support for mandatory features according to GenICam SFNC V2.7
- `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 USB Cameras User Guide or model data sheets.

Resolved issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
967	All	`BlackLevel` is wrongly set after loading settings file: The camera incorrectly reports a `BlackLevel` value of `0`, requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of `0`.
1041	U-500m/c, U-501m/c NIR, U-1240m/c, U-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 30: Resolved issues

Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 31: Known issues

FW 00.12.00.00611a22 | 1st update

Date of **1st document update**: 2023-Jul-05
Date of document release: 2023-Jun-15

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, **U-895m/c**, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 32: Supported models

New models
Alvium 1800 U-895m/c

Changed features

- Added Sensor option for BinningSelector. The existence of this option depends on the sensor. Please see the Alvium USB Cameras User Guide or model data sheets.
- **Added 12-bit sensor formats for cameras with 10-bit sensors for** `PixelFormat`**.**

- **Added Mono12Packed and BayerGR12Packed (1800 U-120c, U-500c, U-501c NIR) or BayerRG12Packed (other models) for** `PixelFormat`.

New features

- Support for mandatory features according to GenICam SFNC V2.7
- `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 USB Cameras User Guide or model data sheets.

Resolved issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
967	All	`BlackLevel` is wrongly set after loading settings file: The camera incorrectly reports a `BlackLevel` value of *0*, requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of *0*.
1041	U-500m/c, U-501m/c NIR, U-1240m/c, U-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 33: Resolved issues

Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 34: Known issues

FW 00.12.00.00611a22

Date of document release: 2023-Jun-15

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 35: 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 USB Cameras User Guide or model data sheets.

New features

- Support for mandatory features according to GenICam SFNC V2.7
- `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 USB Cameras User Guide or model data sheets.

Resolved issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
967	All	`BlackLevel` is wrongly set after loading settings file: The camera incorrectly reports a `BlackLevel` value of `0`, requiring it to be set to a different value and then reset to 0 in order to actually achieve a value of `0`.
1041	U-500m/c, U-501m/c NIR, U-1240m/c, U-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 36: Resolved issues

Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
1016	All	Alvium USB cameras may return wrong temperature values, with a sporadic offset up to 20 °K.

Table 37: Known issues

FW 00.11.00.9cf0c21e | updated notes

Date of **document update**: 2022-Dec-19
Date of document release: 2022-Nov-14

> **Added contents**
>
> Support for 1800 U-234m/c was added on 2024-Nov-27 with an updated version for the FW 00.14.00 release (FW 00.14.00.baba1e3c on page 6).

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 38: Supported models

New models

Alvium 1800 U-234m/c, -510m/c

Changed features

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

New features

- Counter features in the `CounterAndTimerControl` category
- `LineDebounceDuration` and `LineDebounceMode` in the `DeviceControl` category

Resolved issues

Alvium ID	Affected models	Description
806	Color models	Error in color transformation has been fixed.

Table 39: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 40: Known issues

FW 00.11.00.9cf0c21e

Date of document release: 2022-Nov-14

Note: Data of this note entry is outdated. Please see FW 00.10.00.6c9062b1 | updated notes on page 21.

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-234m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-510m/c, U-511m/c, U-811m/c, U-812 UV, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 41: Supported models

New models

Alvium 1800 U-234m/c, -510m/c

Changed features

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

New features

- **Removed**: `ActionControl` category
- Counter features in the `CounterAndTimerControl` category
- `LineDebounceDuration` and `LineDebounceMode` in the `DeviceControl` category

Resolved issues

Alvium ID	Affected models	Description
806	Color models	Error in color transformation has been fixed.

Table 42: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 43: 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 series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-511m/c, U-811m/c, U-812 UV, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 44: Supported models

New models

Alvium 1800 U-235m/c, U-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.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 1800 U-030 VSWIR and U-130 VSWIR, the maximum `Gain` value was increased to 42 dB.

Added information: FPNC was disabled for Alvium 1800 U-030 VSWIR and 1800 U-130 VSWIR models.

New features

- `ChunkDataControl` category
- `SequencerControl` category (The features in this category are still in the testing phase and not fully validated.)
- `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	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 45: 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 21.

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-235m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-511m/c, U-811m/c, U-812 UV, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 46: Supported models

New models

Alvium 1800 U-235m/c, U-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

- `ChunkDataControl` category
- `SequencerControl` category (The features in this category are still in the testing phase and not fully validated.)
- `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	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 47: Known issues

FW 00.08.01.13f227a4

Date of document release: 2022-May-16

Supported models

Camera series	Model
Alvium 1800 U	Alvium 1800 U-120m/c, U-500m/c, U-501m/c NIR

Table 48: Supported models

New models

No new models were added.

New features

No features were added.

Resolved issues

Alvium ID	Affected models	Description
775	U-120c, U-500c, U-501c NIR	Wrong `AutoWhiteBalance` measurement was fixed.

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 49: Known issues

FW 00.08.00.6727174b

Date of document release: 2022-Mar-21

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-052m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-240m/c, U-291m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-511m/c, U-811m/c, U-1236m/c, U-1240Um/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 50: Supported models

New models

Alvium 1800 U-052m/c, U-291m/c

New features

> 💡 **Contents updated subsequently**
>
> The information on support for 12-bit pixel formats for cameras with 10-bit sensors was added on 2023-Nov-21.

- 12-bit for `PixelFormat` for cameras with 10-bit sensors
- Convolution filters in the `ImageProcessingControl` category
- Enabled all integer values from 1× to 8× for Digital Binning.
- `CounterAndTimerControl` category
- `ExposureActiveMode` (Rolling shutter (RS) models)
- SensorBitDepth (selected models)
- UserSetControl: Added individual user set options

Resolved issues

- No issues were fixed.

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 51: Known issues

FW 00.07.00.81db3896

Date of document release: 2021-Dec-10

Supported models

Camera series	Model
Alvium 1800 U	1800 U-030 VSWIR, U-040m/c, U-050m/c, U-120m/c, U-130 VSWIR, U-158m/c, U-240m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-511m/c, U-811m/c, U-1236m/c, U-1240m/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 52: Supported models

New models

Alvium 1800 U-030 VSWIR, U-130 VSWIR

New features

- Look-up tables (LUTs) features
- Sharpness/Blur
- TriggerDelay

Resolved issues

Alvium ID	Affected models	Description
400	U-1240m/c, U-2050m/c	If the `TriggerSelector` value is changed after acquisition, the `ExpsoureActive` signal disappears.
401	U-1240m/c, U-2050m/c	If `TriggerSelector` = *FrameStart* is turned off after streaming with `TriggerSelector` = *FrameStart* turned on, the camera shows an error code after stopping the stream. The camera must be rebooted.

Table 53: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.

Table 54: Known issues

FW 00.06.00.35992

Date of document release: 2021-Aug-13

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-050m/c, U-120m/c, U-158m/c, U-240m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-511m/c, U-811m/c, U-1236m/c, U-1240Um/c, U-1242m/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 55: Supported models

New models

Alvium 1800 U-511m/c, U-811m/c, U-1242m/c

New features

- `Binning` features
- `DevicePowerSavingMode`

Resolved issues

Alvium ID	Affected models	Description
553	U-1620m/c, U-2040m/c, U-2460m/c	Calculated frame rates for small ROIs are not exact.

Table 56: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
400	U-1240m/c, U-2050m/c	If the `TriggerSelector` value is changed after acquisition, the *ExpsoureActive* signal disappears.
401	U-1240m/c, U-2050m/c	If trigger selector frame start is turned off after streaming with trigger selector frame start on, the camera will show an error code after stopping the stream. The camera must be rebooted.

Table 57: Known issues

FW 00.04.00.34658

Date of document release: 2021-May-03

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-120m/c, U-158m/c, U-240m/c, U-319m/c, U-500m/c, U-501m/c NIR, U-507m/c, U-508m/c, U-1236m/c, U-1240Um/c, U-1620m/c, U-2040m/c, U-2050m/c, U-2460m/c

Table 58: Supported models

New models

Alvium 1800 U-501c NIR, U-1620m/c, U-2040m/c, U-2460m/c

New features

• DeviceLinkCommandTimeout

• DeviceTLVersionMajor, DeviceTLVersionMinor

• Timestamp features

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
400	U-1240m/c, U-2050m/c	If the `TriggerSelector` value is changed after acquisition, the *ExpsoureActive* signal disappears.
401	U-1240m/c, U-2050m/c	If trigger selector frame start is turned off after streaming with trigger selector frame start on, the camera will show an error code after stopping the stream. The camera must be rebooted.
553	U-1620m/c, U-2040m/c, U-2460m/c	Calculated frame rates for small ROIs are not exact.

Table 59: Known issues

FW 00.03.00.31919

Date of document release: 2020-Dec-08

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-050m/c, U-120m/c, U-158m/c, U-240m/c, U-319m/c, U-500m/c, U-501m NIR, U-507m/c, U-508m/c, U-1236m/c, U-1240Um/c, U-2050m/c

Table 60: Supported models

New models

No models were added.

New features

- Sensor timing optimizations increase maximum frame rates for selected models
- Updated default values for auto white balance
- Fixed pattern noise correction (FPNC) support for all models, except Alvium 1800 U-2050m/c
- Defect pixel correction (DPC, factory calibrated) for 1800 U-2050m/c models

Resolved issues

Alvium ID	Affected models	Description
289	All	Fixed wrong behavior of software triggers.
299	U-1236m/c, U-1240m/c, U-2050m/c	Fixed issue with `AcquisitionStop` command.

Table 61: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
338	U-500m/c, U-501 m NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, no image is transmitted.
400	U-1240m/c, U-2050m/c	If the `TriggerSelector` value is changed after acquisition, the *ExpsoureActive* signal disappears.
401	U-1240m/c, U-2050m/c	If trigger selector frame start is turned off after streaming with trigger selector frame start on, the camera will show an error code after stopping the stream. The camera must be rebooted.

Table 62: Known issues

FW 00.02.00.29974

Date of document release: 2020-Jul-23

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-050m/c, U-120m/c, U-158m/c, U-240m/c, U-319m/c, U-500m/c, U-501m NIR, U-507m/c, U-508m/c, U-1236m/c, U-1240Um/c, U-2050m/c

Table 63: Supported models

New models

Alvium 1800 U-240m/c, U-508m/c, U-1240m/c

New features

No features were added.

Resolved issues

No issues were fixed.

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
253	All	Auto mode feature `IntensityControllerOutliersDark` does not work properly.
289	All	With default settings for software triggers, triggers can be missed.

Table 64: Known issues (sheet 1 of 2)

Alvium ID	Affected models	Description
299	U-1236m/c, U-1240m/c, U-2050m/c	`AcquisitionStop` command during sensor readout can stop camera.
338	U-500m/c, U-501 m NIR, U-1240m/c, U-2050m/c	If `AcquisitionStop` is executed shortly after `AcquisitionStart`, the captured frame is discarded.

Table 64: Known issues (sheet 2 of 2)

FW 00.01.03.29025

Date of document release: 2020-Mar-04

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-050m/c, U-120m/c, U-158m/c, U-319, U-500m/c, U-501m NIR, U-507, U-1236, U-2050

Table 65: Supported models

New models

Alvium 1800 U-319m/c, U-507m/c, U-1236m/c, U-2050m/c

New features

Defect pixel correction (DPC, factory calibrated, except for 1800 U-2050m/c models)

Resolved issues

Alvium ID	Affected models	Description
79	All	Fixed issues for `OffsetX` for `OffsetY`.

Table 66: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If `ShutterMode` is changed after image acquisition, the *ExpsoureActive* signal disappears.
289	All	With default settings for software triggers, triggers can be missed.
299	U-1236m/c, U-1240m/c, U-2050m/c	`AcquisitionStop` command during sensor readout can stop camera.

Table 67: Known issues

FW 00.01.02.28100

Date of document release: 2019-Dec-03

Supported models

Camera series	Model
Alvium 1800 U	1800 U-040m/c, U-050m/c, U-120m/c, U-158m/c, U-500m/c, U-501m NIR

Table 68: Supported models

New models

Alvium 1800 U-040m/c, U-158m/c, U-501m NIR

New features

- ColorTransformationMatrix
- Contrast
- ExposureActive signal
- Gamma
- Hue
- Saturation

Resolved issues

No issues were fixed.

Known issues

Alvium ID	Affected models	Description
79	All	Large values for `OffsetX` for `OffsetY` may not work properly.

Table 69: Known issues

FW 00.01.01.27102

Date of document release: 2019-Oct-18

Supported models

Camera series	Model
Alvium 1800 U	1800 U-050m/c, U-120m/c, U-500m/c

Table 70: Supported models

New models

Alvium 1800 U-050m/c, U-120m/c

Resolved issues

No issues were fixed.

Known issues

No issues have been discovered.

FW 00.01.00.26405

Date of document release: 2019-Jul-01

Supported model

Camera series	Model
Alvium 1800 U	1800 U-500m/c

Table 71: Supported models

New models

Initial commercial release of Alvium 1800 U-500m/c

Known issues

No issues have been discovered.

Contact us

Website, email

General
www.alliedvision.com/en/contact
info@alliedvision.com

Distribution partners
www.alliedvision.com/en/avt-locations/avt-distributors

Support
www.alliedvision.com/en/support
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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

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