



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.xxxxxxx 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-321m/c	FW 00.14.02.0b3047cf	2026-Mar-18
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 7).



Firmware Downgrade

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

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

1800 U-	Minimum FW	1800 U-	Minimum FW	1800 U-	Minimum FW
030 VSWIR	00.11.00	240m/c	00.11.00	511m/c	00.11.00
040m/c	00.11.00	291m/c	00.11.00	530 VSWIR	00.13.02
050m/c	00.11.00	319m/c	00.11.00	811m/c	00.11.00
052m/c	00.11.00	320 VSWIR	00.13.02	812 UV	00.11.00
120m/c	00.11.00	321m/c	00.14.02	895m/c	00.12.00
130 VSWIR	00.11.00	500m/c	00.11.00	1236m/c	00.11.00
131m/c	00.13.01	501m/c NIR	00.11.00	1240m/c	00.11.00
158m/c	00.11.00	507m/c	00.11.00	1242m/c	00.11.00
192m/c	00.13.01	507m/c Pol	00.13.00	1620m/c	00.11.00
203m/c	00.12.00	508m/c	00.11.00	2040m/c	00.11.00
234m/c	00.11.00	508m/c Pol	00.13.00	2050m/c	00.11.00
235m/c	00.11.00	510m/c	00.11.00	2460m/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 00.14.02.0b3047cf

Date of document release: 2026-Mar-18

Supported models

Camera series	Model
Alvium 1800 U	1800 U-321m/c

Table 3: Supported models

New models

Alvium 1800 U-321m/c

Changed or new features

No features were changed or added.

Resolved issues

No issues were resolved.

Known issues

Alvium ID	Affected models	Description
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 4: Known issues

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 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
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.

Table 6: 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 7: 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 8: Resolved issues

Known issues

Alvium ID	Affected models	Description
978	All	If an <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 9: 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 10: 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 <i>FirstLine</i> for controlling a strobe light. This is saved in a user set. Issue: When this user set is loaded, the settings are displayed correctly, but the output behaves as if ExposureActiveMode is set to <i>FlashWindow</i> , not to <i>FirstLine</i> .
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 11: Resolved issues (sheet 1 of 2)

Alvium ID	Affected models	Description
1434	All	<p>Proper behavior: The trigger mode for Alvium cameras can be changed after the <code>cam.StartCapture()</code> command has been executed when using the Vimba X TL.</p> <p>Issue: The trigger mode can be changed only after the capture has been stopped by <code>camera.EndCapture()</code>.</p>
1483	All	After it has received a DeviceReset command, the camera does not reboot properly.

Table 11: 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.

Table 12: 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 13: 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.

Table 14: 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 15: 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 <code>AcquisitionStop</code> command is executed at the same point in time as a change for a sequencer set, the sequencer cannot be started again.

Table 16: 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 17: 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.
1324	U-500m/c, U-501 NIR, U-1240m/c, U-2050m/c	This applies with AcquisitionMode set to <i>MultiFrame</i> : If cameras have been triggered by AcquisitionStart , the streaming stops when parameters are changed.

Table 18: 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 10. 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 19: 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
- LUTLoadA11 and LUTSaveA11 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 20: 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.
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 21: 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 22: 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 = <i>True</i> and OffsetY is configured, the output image is distorted.

Table 23: 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.

Table 24: 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 25: 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 26: 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.

Table 27: 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 10. 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 24.
- 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 28: 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 <code>ShutterMode</code> is changed after image acquisition, the <code>ExposureActive</code> signal disappears.
967	All	<code>BlackLevel</code> is wrongly set after loading settings file: The camera incorrectly reports a <code>BlackLevel</code> 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 .
1041	U-500m/c, U-501m/c NIR, U-1240m/c, U-2050m/c	DPC (defect pixel correction) is not working when <code>ReverseY</code> is turned on: For rolling shutter models, defect pixels may appear after turning on <code>ReverseY</code> .

Table 29: Resolved issues

Known issues

Alvium ID	Affected models	Description
253	All	Auto mode feature <code>IntensityControllerOutliersDark</code> does not work properly.
338	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.

Table 30: Known issues

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 31: 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 ExposureActive signal disappears.
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 .
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 32: 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.

Table 33: 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 34: 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 ExposureActive signal disappears.
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 .
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 35: 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.

Table 36: 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 37: 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 ExposureActive signal disappears.
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 .
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 38: 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.

Table 39: 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 7).

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 40: 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 41: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-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	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.

Table 42: 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 22.

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 43: 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 44: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-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	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.

Table 45: 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 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. 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 ExposureActive 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 00.10.00.6c9062b1

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 22.

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 48: 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 49: 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 50: 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 <code>AutoWhiteBalance</code> measurement was fixed.

Known issues

Alvium ID	Affected models	Description
251	U-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	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.

Table 51: 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-1240U/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-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 1x to 8x 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 <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	U-500m/c, U-501 m/c NIR, U-1240m/c, U-2050m/c	If <code>AcquisitionStop</code> is executed shortly after <code>AcquisitionStart</code> , no image is transmitted.

Table 53: 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 54: 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 55: 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 56: 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 57: 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 58: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If ShutterMode is changed after image acquisition, the ExposureActive 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 ExposureActive 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 59: 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 60: 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 ExposureActive 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 ExposureActive 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 61: 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 62: 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 63: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If ShutterMode is changed after image acquisition, the ExposureActive 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 ExposureActive 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 64: 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 65: 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 ExposureActive 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 66: 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 66: 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 67: 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 68: Resolved issues

Known issues

Alvium ID	Affected models	Description
251	U-2050m/c	If ShutterMode is changed after image acquisition, the ExposureActive 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 69: 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 70: 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 71: 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 72: 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 73: Supported models

New models

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

Known issues

No issues have been discovered.

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