

USB FIRMWARE RELEASE NOTES

Alvium 1800 U cameras

2021-Sep-10


Firmware files and update instructions

For firmware files, see
www.alliedvision.com/en/support/firmware.

For information on firmware updates, see the Alvium USB Cameras User Guide at
www.alliedvision.com/en/support/technical-documentation/alvium-usb-documentation.


Alvium firmware update and features

For Alvium USB documentation, including features for **Vimba Access**, see
www.alliedvision.com/en/support/technical-documentation/alvium-usb-documentation.

Firmware releases at a glance

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

Models	FW version	FW release date
Alvium 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, 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	FW 00.06.00.35992	2021-Aug-13

Table 3: Latest firmware version by model

FW 00.06.00.35992

Release date: 2021-Aug-13

Supported models

Camera family	Model
Alvium 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 4: 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 5: 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 6: Known issues

FW 00.04.00.34658

Release date: 2021-May-03

Supported models

Camera family	Model
Alvium 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 7: Supported models

New models

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

New features

- Device Link Command Timeout
- Device TL Version Major, Device TL Version Minor
- 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 8: Known issues

FW 00.03.00.31919

Release date: 2020-Dec-08

Supported models

Camera family	Model
Alvium 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 9: 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 10: 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 11: Known issues

FW 00.02.00.29974

Release date: 2020-Jul-23

Supported models

Camera family	Model
Alvium 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 12: 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.
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 13: Known issues

FW 00.01.03.29025

Release date: 2020-Mar-04

Supported models

Camera family	Model
Alvium 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 14: 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 <code>OffsetX</code> for <code>OffsetY</code> .

Table 15: 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.
289	All	With default settings for software triggers, triggers can be missed.
299	U-1236m/c, U-1240m/c, U-2050m/c	<code>AcquisitionStop</code> command during sensor readout can stop camera.

Table 16: Known issues

FW 00.01.02.28100

Release date: 2019-Dec-03

Supported models

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

Table 17: Supported models

New models

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

New features

- Color Transformation Matrix
- Contrast
- Exposure Active signal
- Gamma
- Hue
- Saturation

Resolved issues

No issues were fixed.

Known issues

Alvium ID	Affected models	Description
79	All	Large values for <code>OffsetX</code> for <code>OffsetY</code> may not work properly.

Table 18: Known issues

FW 00.01.01.27102

Release date: 2019-Oct-18

Supported models

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

Table 19: 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

Release date: 2019-Jul-01

Supported model

Camera family	Model
Alvium 1800	U-500m/c

Table 20: Supported models

New models

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

Known issues

No issues have been discovered.

Additional References

For technical support, please contact support@alliedvision.com.

For comments or suggestions regarding this document, please contact info@alliedvision.com.

Disclaimer

For the latest version of this document, please visit the [Allied Vision documentation website](#).

All trademarks are acknowledged as property of their respective owners.

Copyright © 2021 Allied Vision Technologies GmbH. All rights reserved.