

Alvium Modular Concept

V1.0.0
2022-Sep-29



Alvium G1



Alvium 1800 U



Alvium 1500 C
Alvium 1800 C



Alvium G5

Alvium Modular Concept at a glance

About this document

Standard hardware options for Alvium cameras include bare board and various housings. This document lists additional options, including availability, lead time, and pricing.

We are striving to extend options continually. Product codes are created when orders are placed.



Lead times

Standard Alvium cameras have a typical lead time of 2 weeks. Options in this document are either Standard (= 2 weeks) or have an **additional lead time** adding to the Standard lead time.



Options not listed

If you are looking for other options, please contact our Sales team at www.alliedvision.com/en/about-us/contact-us/contact-sales.

What else do you need?

Documentation download	Link
Alvium CSI-2 cameras	www.alliedvision.com/en/support/technical-documentation/alvium-csi-2-documentation
Alvium USB cameras	www.alliedvision.com/en/support/technical-documentation/alvium-usb-documentation
Alvium G1 cameras	www.alliedvision.com/en/support/technical-documentation/alvium-gige-documentation
Alvium G5 cameras	
Accessories product selection	www.alliedvision.com/en/products/accessories
Accessory documentation overview	www.alliedvision.com/en/support/accessory-documentation

Table 1: Downloads for Alvium cameras

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

www.alliedvision.com/en/about-us/contact-us/technical-support-repair/-rma

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Document history and conventions

Document history

Version	Date	Document updates
V1.0.0	2022-Sep-29	Initial release

Table 2: Document history

Conventions used in this document

Typographical styles

To give this manual an easily understood layout and to emphasize important information, the following typographical styles and symbols are used.

Style	Function
Emphasis	Highlighting important things
Web addresses and references	Links to webpages and internal cross references

Table 3: Typographical styles

Symbols and notes



Practical tip

Additional information helps to understand.



Additional information

Web link or reference to an external source with more information is shown.

Alvium modular options

Filter options

Color cameras without IR cut filter

Standard Alvium color models with C-Mount and CS-Mount are shipped **with** an IR cut filter. All housed Alvium color models are available **without** an IR cut filter:

Lens mount	Models All ¹	Minimum quantity	Additional lead time	Additional costs
C-Mount	✓	20 ²	+1 week	
CS-Mount	✓	20 ²	+1 week	
S-Mount	Not applicable ³			

¹ Exception: 1500 C-501c NIR and 1800 U-501c NIR do not have an IR cut filter.
² Please ask our Sales team for minimum quantities!
³ S-Mount cameras do not have an IR cut filter.

Table 4: Color cameras without IR cut filter



Accuracy guaranteed

Of course, the flange focal distance is adjusted.

Monochrome cameras with IR cut filter

Standard Alvium monochrome and NIR models are shipped **without** an IR cut filter. All Alvium monochrome C-Mount and CS-Mount models are available **with** an IR cut type Hoya C5000 filter:

Lens mount	Models	Minimum quantity	Additional lead time	Additional costs
	All			
C-Mount	✓	20 ¹	+1 week	
CS-Mount	✓	20 ¹	+1 week	
S-Mount	Not applicable ²			
¹ Please ask our Sales team for minimum quantities!				
² S-Mount cameras cannot be equipped with an IR cut filter.				

Table 5: Monochrome cameras with IR cut filter



Accuracy guaranteed

Of course, the flange focal distance is adjusted.



Other filters

For other filters, please contact our Sales team!

Sensors without cover glass

Sensors without cover glass are suitable for several applications, to:

- Increase overall quantum efficiency
- Attach fiber optic arrays directly to the sensor, for example in connection with an image intensifier
- Prevent disturbing reflections or interferences caused by the sensor cover glass.

All Alvium cameras with IMX sensors are available without sensor cover glass; including all interfaces, housings, and bare board.

Additional lead time is typically 4 weeks.



Handling of cameras without sensor cover glass

Housed cameras: The cover glass is removed by Allied Vision before shipping (Removed Cover Glass – RCG).

Bare board cameras: The cover glass is removed by the customer (Taped Cover Glass – TCG).

Before handling cameras without sensor cover glass, read the application note: www.alliedvision.com/fileadmin/content/documents/products/cameras/various/appnote/various/TCG-RCG_Sensor-Handling.pdf.

-> Model ¹	030 VSWIR	040	052	130 VSWIR	158	234	235	240	291	319	507	508
Sensor	IMX991	IMX287	IMX426	IMX990	IMX273	IMX249	IMX174	IMX392	IMX421	IMX265	IMX264	IMX250
Additional costs												

¹ Observe not every model is available for all Alvium series.

Table 6: Cameras with RCG sensor option (table 1 of 2)

-> Model ¹	510	511	811	812 UV	1236	1240	1242	1620	2040	2050	2460
Sensor	IMX548	IMX547	IMX546	IMX487	IMX304	IMX226	IMX545	IMX542	IMX541	IMX183	IMX540
Additional costs											

¹ Observe not every model is available for all Alvium series.

Table 7: Cameras with RCG sensor option (table 2 of 2)

Black housing

Standard housing Alvium cameras have a red housing, closed housing versions have a black back cover in addition. These models are available with black housing:

Lens mount	Minimum quantity	Additional lead time	Additional costs
C-Mount	20 ¹	+ 1 week	
CS-Mount	20 ¹	+ 1 week	
S-Mount	20 ¹	+ 1 week	

¹ Binding minimum, as parts are ordered only on demand

Table 8: Black housing

Standard mount availability

Lens mount	030 VSWIR				120				130 VSWIR				501 NIR				812 UV									
	040	050	052	120	130	158	210	234	235	240	291	319	500	507	508	510	511	811	812 UV	1236	1240	1242	1620	2040	2050	2460
C-Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CS-Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
S-Mount	✓	✓	✓		✓	✓	✓			✓		✓	✓	✓			✓	✓			✓					

^{All} Observe not every model is available for all Alvium series.

Table 9: Standard mount availability



Non-standard mount options

Some sensors have a size that causes vignetting and fuzzy edges when they are used for S-Mount or CS-Mount. Therefore, we offer these hardware options only on request. This includes black housing cameras.