



// ALVIUM G5 CAMERA SERIES

The easy upgrade for
more performance

5 GigE Vision cameras for demanding applications

The Alvium G5 camera series combines the advantages of the 5GigE interface and the flexibility of the Alvium platform. It provides all the advantages of the GigE Vision standard while providing more bandwidth for applications, where resolution and frame rate are critical. The Alvium G5 camera series enables an easy upgrade of existing systems (USB3 Vision or 1GigE Vision) and offers backwards compatibility with 1GigE solutions. Powered by ALVIUM® Technology, the sugar cube Alvium G5 camera delivers highest image quality at a low power consumption.

Alvium G5



Camera model	Sensor	Mega-pixels	Resolution	Sensor format	Shutter mode	Max. frame rate in fps	Pixel size in µm	Mono/color/ mono NIR/ color NIR
G5-052	Sony IMX426 CMOS	0.5	816 x 624	Type 1/1.7	Global	464	9 x 9	• / • / - / -
G5-130	Sony IMX990 CMOS	1.3	1296 x 1032	Type 1/2	Global	69	5 x 5	VSWIR
G5-291	Sony IMX421 CMOS	2.8	1944 x 1472	Type 2/3	Global	114	4.5 x 4.5	• / • / - / -
G5-500	ON Semi ARO521SR CMOS	5.0	2592 x 1944	Type 1/2.5	Rolling	68	2.2 x 2.2	• / • / - / -
G5-508	Sony IMX250 CMOS	5.0	2464 x 2056	Type 2/3	Global	95	3.45 x 3.45	• / • / - / -
G5-510	Sony IMX548 CMOS	5.1	2464 x 2064	Type 1/1.8	Global	79	2.74 x 2.74	• / • / - / -
G5-511	Sony IMX547 CMOS	5.1	2464 x 2064	Type 1/1.8	Global	78	2.74 x 2.74	• / • / - / -
G5-811	Sony IMX546 CMOS	8.1	2848 x 2848	Type 2/3	Global	58	2.74 x 2.74	• / • / - / -
G5-812	Sony IMX487 CMOS	8.1	2848 x 2848	Type 2/3	Global	58	2.74 x 2.74	UV
G5-1240	Sony IMX226 CMOS	12.2	4024 x 3036	Type 1/1.7	Rolling, Global Reset	35	1.85 x 1.85	• / • / - / -
G5-1242	Sony IMX545 CMOS	12.4	4128 x 3008	Type 1/1.1	Global	39	2.74 x 2.74	• / • / - / -
G5-1620	Sony IMX542 CMOS	16.2	5328 x 3040	Type 1.1	Global	30	2.74 x 2.74	• / • / - / -
G5-2040	Sony IMX541 CMOS	20.4	4512 x 4512	Type 1/1.1	Global	24	2.74 x 2.74	• / • / - / -
G5-2050	Sony IMX183 CMOS	20.2	5496 x 3672	Type 1.1	Rolling	21	2.4 x 2.4	• / • / - / -
G5-2460	Sony IMX540 CMOS	24.6	5328 x 4608	Type 1.2	Global	20	2.74 x 2.74	• / • / - / -

At a glance

Interface options	5GigE Vision
Mount options	C-Mount / CS-Mount / S-Mount (M12)
Camera control options	Vimba SDK or GenICam-compliant third-party software
Operating temperature	-20°C to +60°C
Power requirements	Power over Ethernet (PoE) or external power 12-24 VDC
Body dimensions (L x W x H)	60mm x 29mm x 29mm (Closed Housing)



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