

The new Alvium 1800 Series

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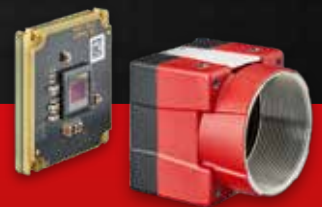
// ALVIUM 1800 MIPI CSI-2 CAMERA



Rethink Embedded Vision

The revolutionary Alvium 1800 camera series meets all the standards of an industrial camera. But also builds on an innovative, embedded-optimized platform for small size, low power consumption, and affordability.

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TECHNOLOGY

Embedded vision meets machine vision

The Alvium 1800 Series offers a range of options for migrating from PC-based machine vision to an embedded setup. The ALVIUM® Technology platform not only supports easy sensor and functionality upgrades within the Alvium world, but also makes it easy to switch from PC-based image processing applications to embedded systems thanks to common standards. To connect to the CSI-2 interface of Alvium 1800 Series cameras, Allied Vision provides open-source CSI-2 drivers on GitHub for different boards and System on Chips (SoCs).

1800 C Series models

Model	Sensor	Sensor Size	Shutter	Pixel Size	Resolution	Frame Rate	Power consumption
1800 C-040	Sony IMX287	Type 1/2.9	Global	6.9µm × 6.9µm	728 × 544	280fps	Typical: 1.7W
1800 C-158	Sony IMX273	Type 1/2.9	Global	3.45µm × 3.45µm	1456 × 1088	150fps	Typical: 2.4W
1800 C-319	Sony IMX265	Type 1/1.8	Global	3.45µm × 3.45µm	2064 × 1544	53fps	Typical: 1.9W
1800 C-507	Sony IMX264	Type 2/3	Global	3.45µm × 3.45µm	2464 × 2056	34fps	Typical: 1.9W
1800 C-1236	Sony IMX304	Type 1.1	Global	3.45µm × 3.45µm	4112 × 3008	22fps	Typical: 2.6W
1800 C-2050	Sony IMX183	Type 1	Rolling	2.4µm × 2.4µm	5376 × 3672	25 fps	Typical: 2.9W

1800 C Series at a glance



Interface options	MIPI CSI-2 V1.1
Sensor options	Sony Pregius CMOS sensors
Mount options	C-Mount / CS-Mount / S-Mount (M12)
Housing options	Bare board or Open housing
Camera control options	Video4Linux2 Access or Direct Register Access (DRA)
Operating temperature	+5°C to +65°C housing temperature
Power requirements	Power over MIPI CSI-2 (5 VDC)
Body dimensions (L × W × H)	7 mm × 26 mm × 26 mm (bare board)



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