

Nerian Karmin2

The Nerian Karmin2 stereo camera, specializing in embedding stereo applications onto FPGA, is specifically designed for easy integration with the SceneScan Pro. The combination of these two products creates a 3D depth camera that acquires accurate range measurements, even in bright light conditions and over long distances. The Karmin2 is recommended paired in a kit with the SceneScan Pro.



Nerian Karmin2 stereo cameras. Top: 10cm baseline model. Bottom: 25cm baseline model.

Specifications include:

- USB3
- e2V EV 7bc520
- 10 and 25 cm baselines
- 1600 × 1200 sensor resolutions
- 25° - 62° HFOV
- Up to 40 fps at 800 × 592 / 256 pixels
- Trigger synchronization
- Weight without lenses:
 - 280 g for 10 cm baseline
 - 450 g for 25 cm baseline

Focal length	Image resolution	Disparity range	Minimum depth ¹	Maximum depth ²	FoV	Frame rate
6 mm	800 × 592	256 pixels	0.26 m	0.66 m	62°	40 fps
	1600 × 1200	128 pixels	1.06 m	2.64 m	62°	15 fps
	1600 × 1200	256 pixels	0.53 m	1.32 m	62°	10 fps
8 mm	800 × 592	256 pixels	0.35 m	0.88 m	48°	40 fps
	1600 × 1200	128 pixels	1.41 m	3.52 m	48°	15 fps
	1600 × 1200	256 pixels	0.70 m	1.75 m	48°	10 fps
12 mm	800 × 592	256 pixels	0.53 m	1.32 m	33°	40 fps
	1600 × 1200	128 pixels	2.11 m	5.28 m	33°	15 fps
	1600 × 1200	256 pixels	1.05 m	2.63 m	33°	10 fps
16 mm	800 × 592	256 pixels	0.70 m	1.75 m	25°	40 fps
	1600 × 1200	128 pixels	2.82 m	7.05 m	25°	15 fps
	1600 × 1200	256 pixels	1.40 m	3.51 m	25°	10 fps

¹ Minimum depth measurements are for a Karmin2 baseline distance of 10 cm

² Maximum depth measurements are for a Karmin2 baseline of distance 25 cm

Contact Hexagon | AutonomousStuff

info.as.ap@hexagon.com +1 309.291.0966

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Last updated 8 Oct 2020