

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](#).

Specifications include:

- USB3
- e2V EV 7bc520
- 10 and 25cm baselines
- 1600x1200 sensor resolutions
- 25° - 62° HFOV
- Up to 40fps at 800x592/256 pixels
- Trigger synchronization
- Weight without lenses:
 - 280g for 10cm baseline
 - 450g for 25cm baseline



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

Focal Length	Image Resolution	Disparity Range	Minimum Depth ¹	Maximum Depth ²	FoV	Frame Rate
6mm	800 x 592	256 pixels	0.26m	0.66m	62°	40fps
6mm	1600 x 1200	128 pixels	1.06m	2.64m	62°	15fps
6mm	1600 x 1200	256 pixels	0.53m	1.32m	62°	10fps
8mm	800 x 592	256 pixels	0.35m	0.88m	48°	40ps
8mm	1600 x 1200	128 pixels	1.41m	3.52m	48°	15fps
8mm	1600 x 1200	256 pixels	0.70m	1.75m	48°	10fps
12mm	800 x 592	256 pixels	0.53m	1.32m	33°	40fps
12mm	1600 x 1200	128 pixels	2.11m	5.28m	33°	15fps
12mm	1600 x 1200	256 pixels	1.05m	2.63m	33°	10fps
16mm	800 x 592	256 pixels	0.70m	1.75m	25°	40fps
16mm	1600 x 1200	128 pixels	2.82m	7.05m	25°	15fps
16mm	1600 x 1200	256 pixels	1.40m	3.51m	25°	10fps

¹Minimum depth measurements are for a Karmin2 baseline distance of 10 cm
²Maximum depth measurements are for a Karmin2 baseline of distance 25 cm