

See the world in motion

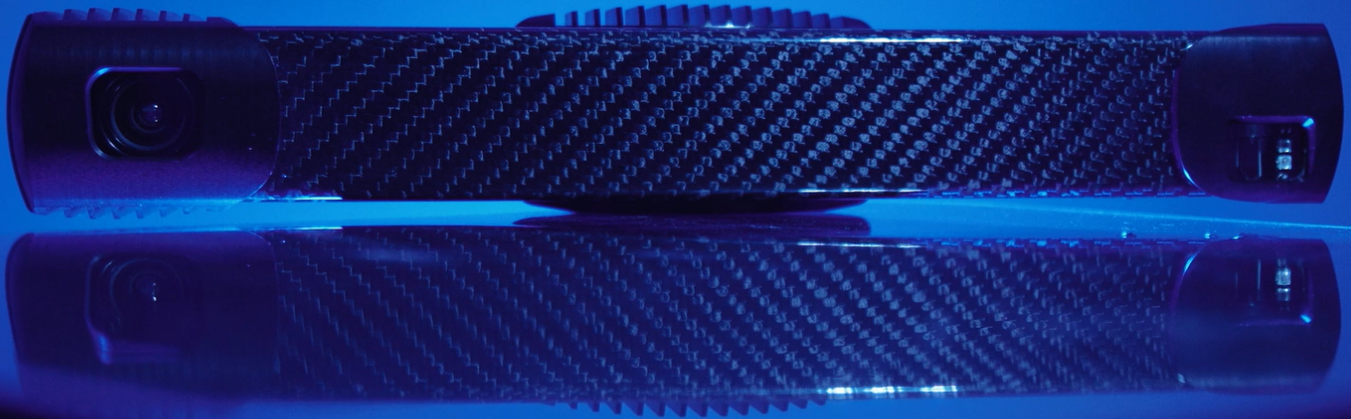
MotionCam-3D

Highest accuracy & resolution
3D camera for dynamic scenes



The unique combination of speed & data quality

Reconstruct accurate point clouds of various objects in a high level of detail without compromises on quality caused by vibrations, ambient light or motion.



3D sensors

Features



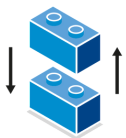
Resistant to vibrations

Without producing distortion or broken acquisitions



Industry ready device

With IP65, PoE and thermal calibration



Patented technology

New concept of capturing - Parallel Structured Light - based on novel CMOS sensor



Scanning of dynamic scenes

Captures objects moving up to 40 m/s with 10 μ s per pixel exposure time



Easy to install and use

MotionCam-3D follows the concept of a plug & play device including intuitive API



High resolution & no blur

2 Mpix accuracy including state of the art ambient light suppression



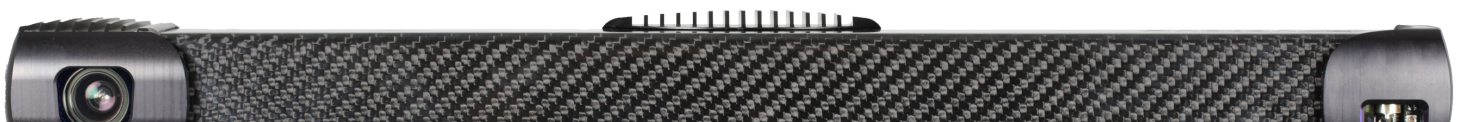
Computational powerhouse

Provides 15 million 3D points per second

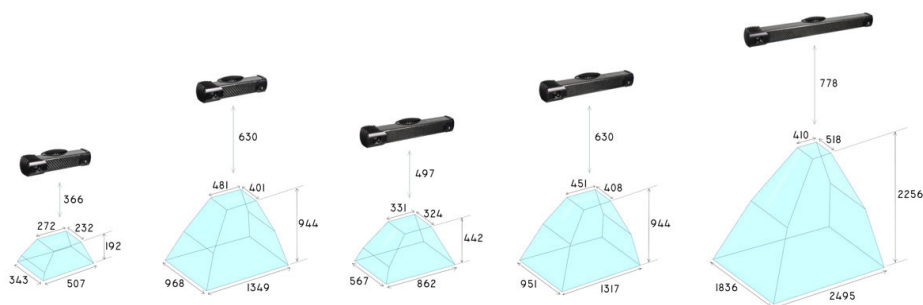


Large scanning range

From 36 cm up to 3 m covered by 5 sizes of the device: S, S+, M, M+ & L

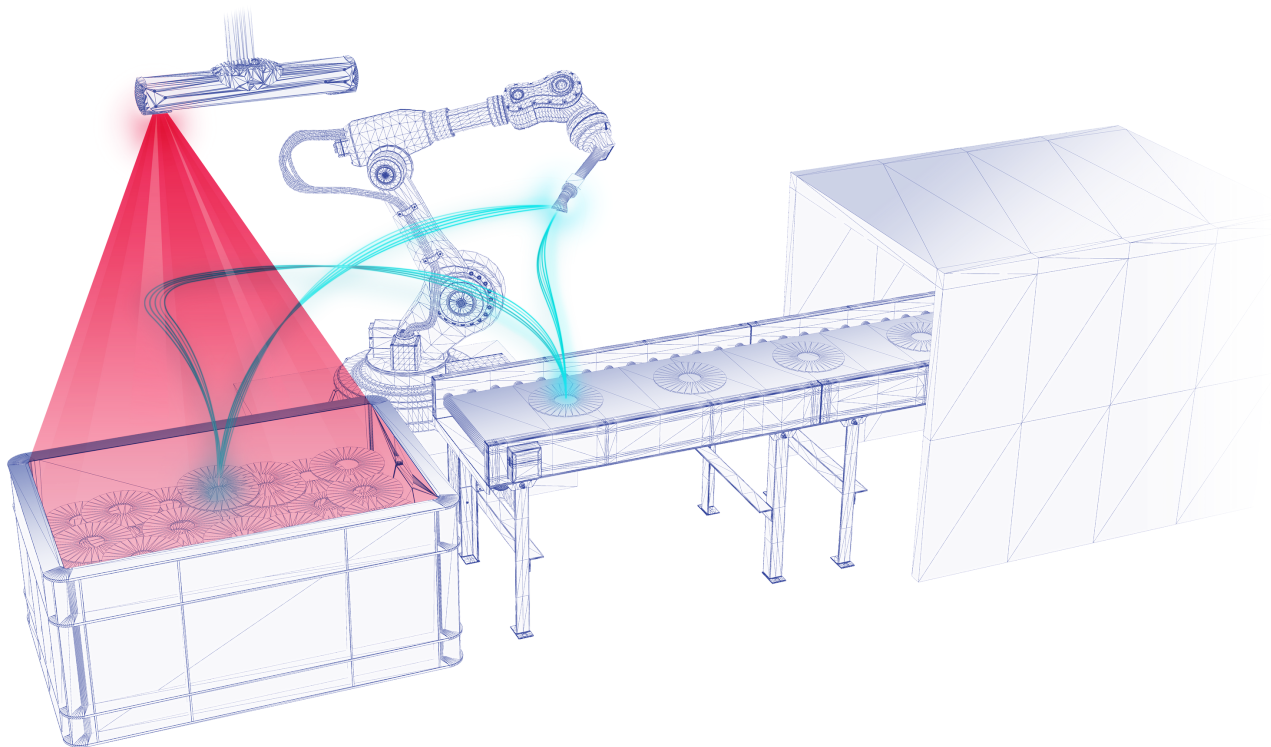


Technical parameters



	S	S+	M	M+	L
Scanning range	366 - 558 mm	630 - 1574 mm	497 - 939 mm	630 - 1574 mm	778 - 3034 mm
Camera mode					
Point size	0.37 mm @z = 442 mm	0.76 mm @z = 900 mm	0.55 mm @z = 650 mm	0.76 mm @z = 900 mm	1.05 mm @z = 1239 mm
Accuracy	< 0.300 mm	< 1.000 mm	< 0.500 mm	< 0.600 mm	< 1.250 mm
Temporal noise	< 0.100 mm	< 0.150 mm	< 0.100 mm	< 0.100 mm	< 0.150 mm
Scanner mode					
Point size	0.25 mm @z = 442 mm	0.52 mm @z = 900 mm	0.37 mm @z = 650 mm	0.52 mm @z = 900 mm	0.72 mm @z = 1239 mm
Accuracy	< 0.150 mm	< 0.500 mm	< 0.250 mm	< 0.300 mm	< 0.900 mm
Temporal noise	< 0.050 mm	< 0.100 mm	< 0.050 mm	< 0.050 mm	< 0.100 mm
General information					
Depth map resolution (static mode)	1680 x 1200				
Depth map resolution (dynamic mode)	1120 x 800				
Maximum FPS	20 fps				
Data acquisition time	10 ms				
Maximum object speed	40 m/s				
3D points throughput	15 mil points/sec				
GPU	NVIDIA Pascal™ Architecture GPU with 256 CUDA cores				
Dimensions	80 x 68 x 307 mm	80 x 68 x 307 mm	80 x 68 x 427 mm	80 x 68 x 427 mm	80 x 68 x 627 mm
Baseline	230 mm	230 mm	350 mm	350 mm	550 mm
Weight	1300 g	1300 g	1400 g	1400 g	1500 g





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