



Preliminary Technical Specifications

Parameter	Value
Technology	Laser triangulation with mathematical modeling. Patented.
Measurement range	0.3 - 20 m
Precision	0.3 mm (x, y and z) @ 0.3 - 3 m distance
Field of view (FOV)	40° x 60° (vertical x horizontal)
Spatial sampling	72 mm @ 5 m distance and 11 mm @ 5 m distance (with stereo densification)
Real time output	3D point cloud in sub-pixel resolution with RGB texture for each point, or a depth image
Latency	5 ms (algorithm), typically 120 ms (including the data transfer)
Frame rate	15 - 105 fps
Illumination	100 mW CW laser emission with a custom diffractive element to produce 5303 laser dots. Laser Class 1M.
Cameras	4 units of VIS-NIR sensors (4M pixels each)
Interface	USB 3.0 Micro-B with a software API
Calibration	Factory calibrated
Power consumption	tbd mW (from USB 3.0 interface)
Size	184.0 mm x 93.5 mm x 40.0 mm
Weight	420 g
Mounting	1/4-20 UNC camera mount
Protection	IP43

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