



## World's First 360° Depth and Stereo Sensor

Output	Stereo Image Output	5290 x 1819 @ 12fps   3544 x 1218 @ 20fps
		1322 x 544 @ 40fps   660 x 227 @ 100fps
	Maximum Field of View	360° (H) x 110° (V)
	Angular Resolution	0.06° (H) x 0.06° (V) / pixel
	Maximum Operating Distance	10 metres for Object Size 2cm x 2cm
Depth Performance	Image Resolution	5290 x 1819 @ 12fps   3544 x 1218 @ 20fps
		1322 x 544 @ 40fps   660 x 227 @ 100fps
	Field of View	360° (H) x 110° (V)
	Angular resolution	0.1° / pixel
	Minimum Range (distance)	0 cm
	Maximum Range (distance)	500 cm
	Distance Accuracy	≤ 1 cm / 1% @ 100cm
		≤ 20 cm / 6.3% @ 500cm
	Distance Resolution	≤ 0.08 cm / 0.4% @ 20 cm
		0.5 cm / 0.5% @ 100 cm
		6.33 cm / 2.1% @ 500 cm
	Distance Precision	0.5 cm / 0.5% @ 100 cm
	fps (frames per second)	Supported at 12 fps, 20 fps, 40 fps, 100 fps
	Latency	< 150 ms
	Timestamp	< 5 ms
Point Cloud	Supported at 12 fps, 20 fps, 40 fps, 100 fps	
Ambient Lighting	> = 20 Lux	

Processor	CPU	Quad-core ARM A57 @ 1.43 GHz
	GPU	128-core Maxwell
	RAM	4 GB 64-bit LPDDR4 25.6 GB/s
SDK Features	Compatibility	OpenCV, ROS
SDK Requirements	Operating System	Ubuntu 16.04+
Interfaces	Communication Interface	Gigabit Ethernet
Electrical Data	Power consumption	5W
Mechanical Data	Weight	1.6 lbs
	Dimensions	Height: 131.91 mm; Diameter: 103 mm
	Materials	ABS, PMMA, Aluminium, Silicon & PU Rubber
	Housing Color	Matte Black
	Mounting	UNC 1/4"-20
Operating Conditions	Ambient Temperature	-30° to 55° C
	Storage Temperature	-30° to 75° C
	Protection	IP 67
Resistance	Shock Resistance	20g for 11 ms
	Vibration Resistance	5 Hz to 150 Hz
Accessories (included)	USB 3.0 Type A-A cable	
	Micro Fiber Cloth	
Important Notes	Avoid dropping the product in any scenario.	
	Do not touch the transparent surface as it can reduce the image quality.	
	Use of microfiber cloth for cleaning the transparent surface is recommended.	
Additional Family Options	PAL USB 	USB 3.0 Interface
	PAL Mini 	Up to 3m depth range, USB