



LiDAR SPECIFICATION COMPARISON CHART

Manufacturer	LiDAR	Horizontal FOV	Min. Range	Max Range	Distance Resolution	Scan Rate	Interface	Hor. Angular Resolution	Vertical FOV	Power	Voltage	Mass	Size
	Features: Long Range, Multi-Echo, Embedded Object Tracking/Classification, Automotive Quality, IP69K. Custom Sensor "Fusion" Systems Are Available. Tracks Up To 64 Objects. Up To 6 On Sensor Fusion System.												
	LUX 2010 Standard 4 Layer	110° (50° to -60°)	<0.3m	200m (90%)	4cm	12.5Hz, 25Hz, 50Hz	Ethernet, CAN	Up to 0.125°	3.2°	7W Avg., <10W Max	9V-27V	~1kg	W164.4mm x D93.2mm x H88mm
	Features: Long Range, Multi-Echo, Embedded Object Tracking/Classification, Automotive Quality, IP69K. Custom Sensor "Fusion" Systems Are Available. Tracks Up To 64 Objects @12.5 Hz. Up To 6 On Sensor Fusion System.												
	IBEO LUX HD	110° (50° to -60°)	<0.3m	120m (90%) 30m (10%)	4cm	12.5Hz, 25Hz, 50Hz	Ethernet, CAN	Up to 0.125°	3.2°	7W Avg., <10W Max	9V-27V	~1kg	W164.4mm x D93.2mm x H88mm
	Features: Long Range, Multi-Echo, Embedded Object Tracking/Classification, Automotive Quality, IP69K. Custom Sensor "Fusion" Systems Are Available. Tracks Up To 64 Objects @ 6.25 Hz.												
	IBEO LUX 8 Layer	110° (50° to -60°)	<0.3m	200m (90%)	4cm	6.25Hz, 12.5Hz, 25Hz	Ethernet, CAN	Up to 0.125°	6.4°	8W Avg., <10W Max	9V-27V	~1kg	W164.4mm x D93.2mm x H88mm
	Features: Long Range, Multi-Echo, Embedded Object Tracking/Classification, Automotive Quality, IP69K. Custom Sensor "Fusion" Systems Are Available. Greater Than 30 Tracks.												
	IBEO SCALA B2	145° (4L)	<0.3m	327m (100%)	4cm	25Hz	CAN, BroadR-Reach/Ethernet	0.25°	3.2°	<7W	9V-16V	510g	W108mm x D100mm x H60mm
	Features: Long Distance Laser Range Finder. Available for Outdoor Use Because Of 100,000 LUX for Ambient Illuminance and IP64 For Protective Structure.												
	UTM-30LX-EW	270°	0.1m	80m (90%)	0.1-10m, ±3cm 10-30m, ±5cm	40Hz	Ethernet	0.25°	N/A	8W	12V ± 10%	210g	W60mm x D60mm x H87mm
	Features: Compact, Lightweight and Shock Resistant Indoor Range Finder with Low Power Consumption. IP65.												
	UST-05LN	270°	0.06m	5m	0.06-5m, ±4cm	40Hz	Ethernet	0.5°	N/A	3.6W Avg, 9.6W Max	10V-30V	130g	W50mm x D50mm x H70mm
	Features: Compact, Lightweight and Shock Resistant Indoor Range Finder with Low Power Consumption. IP65.												
	UST-10LX UST-20LX	270°	0.02m	10m 20m	0.2-10m, ±4cm	40Hz	Ethernet	0.25°	N/A	3.6W Avg, 9.6W Max	12V-24V	130g	W50mm x D50mm x H70mm
	Features: Outdoor Laser Range Finder, Multi-Echo Detection Ideal for Outdoor Applications. Performs Well in Rain, Snow, Mist and Dust. IP67.												
	UXM-30LX-EW	190°	0.1m	80m (90%)	0.1-10m, ±5cm 10-30m, ±10cm	20Hz	Ethernet	0.25°	N/A	6W Avg, 18W Max	10V-30V	~550g	124mm x 126mm x 150mm
	Features: 16 Independent segments with simultaneous acquisition and lateral discrimination abilities. Rapid Data Acquisition. Low Power Consumption.												
	M16	Up To 95°		100m @ 9° HFOV	1cm	50Hz	USB, RS485, CAN, UART	0.563° to 5.938°	N/A	4W	12V or 24V	180g	104mm x 66mm x 48mm
	Features: Lightweight and Robust. Rapid Refresh Rate. Flexible Integration and Customization. Other Lens Options Available for Wider FOV.												
	Vu8-020	20°		60m (90%)	1cm	Up to 100Hz	SPI or USB, CAN, UART, RS-485	2.5°	0.3° to 3.0°	2W	12V	110g	70mm x 35.2mm x 67.5mm
	Features: Robust and Lightweight Device with A Simple Power and Ethernet Interface. 3 Scanning Modes: Full Field, Bounded Elevation, And Region Scanning. Max Elevation Rate of 3Hz.												
	RE05	360°		160m (100%)	N/A	15 Hz Horizontal, 3Hz Vertical	Ethernet	Variable	±35°	50W	24V	IP65 2.8kg, IP67 3.0kg	











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 Ocular	Features: Robust and Lightweight Device with A Simple Power and Ethernet Interface. 3 Scanning Modes: Full Field, Bounded Elevation, And Region Scanning.												
	RE08	360°		270m (80%, Extended Range Mode)	N/A	15 Hz Horizontal, 3Hz Vertical	Ethernet	Variable	±35°	100W	24V	9.1kg	
 Velodyne	Features: Lightweight, 360° FOV, 3D Point Clouds Ideal for Mapping and Autonomous Applications.												
	LiDAR PUCK	360°	1m	100m		5Hz-20Hz	100Mbps Ethernet	0.2° @ 10Hz	15° to -15°	8W	9V-32V	830g	H72mm x Diam 103mm
	LiDAR PUCK Lite											590g	
 Velodyne	Features: Lightweight, 360° FOV, 3D Point Clouds Ideal for Mapping and Autonomous Applications.												
	HDL-32E	360°	1m	100m		5Hz-20Hz	100Mbps Ethernet	0.2° @ 10Hz	10.67° to -30.67°	12W	9V-18V	1kg	H144mm x Diam 85mm
 Velodyne	Features: Lightweight, 360° FOV, 3D Point Clouds Ideal for Mapping and Autonomous Applications.												
	HDL-64E	360°	1m	120m		5Hz-20Hz	100Mbps Ethernet	0.17° @ 10Hz	2° to -24.9°	60W	12V-32V	12.7kg	215mm Diam x 283mmH
 Triple-IN	Features: Ultra Lightweight with Very High Accuracy in Range and Angle. Fast Scan Rate. Available in Normal, Fine, and Fast Modes. IP65.												
	Lightweight	90°	1.6m	80m (10%), 250m (100%)	1mm	20Hz - 40Hz	Ethernet, RS232, Discrete Switching Outputs	0.023° to 0.18°	N/A	7W	24V ± 5V	<1kg	124mm x 254mm x 100mm
 Triple-IN	Features: 2D Pulse Scanner. Long Range with Very High Accuracy in Range and Angle. IP67.												
	PS100-90	90°	0.6m	170m @ (100%)	1mm	20Hz - 40Hz	Ethernet, RS232, Discrete Switching Outputs	0.023° to 0.18°	N/A	7W	24V ± 5V	2.6kg	247mm x 121mm x 109mm
	PS250-90		1.8m	250m @ (100%)									
	PS300-90		2.1m	300m @ (100%)									
 Triple-IN	Features: 2D Pulse Scanner. Long Range with Very High Accuracy in Range and Angle. IP67.												
	PS150-270	270°	0.8m	160m	1mm	5Hz - 20Hz	Ethernet, RS232, Discrete Switching Outputs	0.045° to 0.18°	N/A	8W	24V ± 5V	2.6g	260mm x 123.6mm x 130mm
	PS250-270		2.0m	200m									
 Neptec	Features: Designed for Harsh Environments. Both Conical and Panoramic FOV. Very Long Range.												
	OPAL 3 Conical	45°, 60°, 120°		500m or 1000m (20%)		Contact Us	GigE	Rosette Type Overlapping Pattern	45°, 60°, 120°	110W (250W Max)	18V-36V	<12.7 kg	178mm x 178mm x 338mm
	OPAL 3 Panoramic	360°							5° to -40°			<13.2 kg	178mm x 178mm x 456 mm
 SICK	Features: Short Range, Outdoor, 20m. IP67. With Integrated Heater.												
	LMS 111	270°	0.5m	20m		50Hz, 25Hz	Ethernet, RS232	0.25°-0.5°	N/A	8W (35W w/ Heat)	10.8V-30V	1.1kg	105mm x 102mm x 162mm
	LMS 151		0.5m	50m									





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Manufacturer	LiDAR	Horizontal FOV	Min. Range	Max Range	Distance Resolution	Scan Rate	Interface	Hor. Angular Resolution	Vertical FOV	Power	Voltage	Mass	Size
	Features: Rugged, Outdoor, Compact. Wide-Range and Low Sensitivity to Ambient Light. IP67.												
	LMS TiM55	270°	0.05m	8m (10%)		15Hz	Ethernet, Micro USB	1°	N/A	4W	9V-28V	250g	60mm x 60mm x 86mm
	Features: Rugged 3D, 4-Layer LiDAR with Indoor/Outdoor Applications.												
	MRS 1000	275°	0.2m	64m		12.5Hz	Ethernet	0.25°	7.5°	13W, 30W Startup	10V-30V	1.2kg	151.9mm x 150mm x 92.5mm
	Features: Scans Four Layers Simultaneously. Reduced Weight for Aerial Applications. IP69K.												
	LDMRS-UAV	110°	0.5m	300m		12.5Hz to 50Hz	Ethernet, RS232, CAN	0.125°, 0.25°, 0.5°	3.2°	8W	9V-27V	770g	88mm x 164.5mm x 91.5mm
	Features: Scans Eight Layers Simultaneously. Weather Resistant and Suitable for Industrial Applications. IP69K.												
	LD-MRS	110°	0.5m	300m		12.5Hz to 50Hz	Ethernet, RS232, CAN	0.125°, 0.25°, 0.5°	3.2°	8W	9V-27V	1kg	94mm x 165mm x 88mm
	Features: 3D LiDAR With A Gap-Free Detection Across 24 Scanning Layers. IP65 And IP67.												
	MRS 6000	120°	0.5m	75m (90%)		10Hz	Ethernet	0.13° (Horizontal) 0.625° (Vertical)	15°	20W	10V-29V	2.2kg	125.5mm x 176mm x 131mm
	Features: SICK's Smallest 2D LiDAR Sensor with The Highest Accuracy in Its Class. Lite Option Available. IP67.												
	LMS 511 PRO	190°	0.5m	40m	±25mm (1m-10m), ±35mm (10m-20m), ±50mm (20m-30m)	25Hz-100Hz	Ethernet, RS232	0.167° to 1°		22W (+55W for Heat)	24V	3.7kg	160mm x 155mm x 185mm

Disclaimer: Specifications Are Subject to Change, Without Notice.

