

# LS500W1

## Ultra-Wide FOV Blind Spot Detection LiDAR

LS500W1 utilizes LSLiDAR's in-housed 1550nm fiber laser and over a dozen high-power core optical components. It boasts exceptional long-range small object detection capabilities and an extremely high-density point cloud performance.

It has a detection range of 2 to 150m and an ultra-wide field of view of 120° (H) x 73° (V). With a measurement rate of 3.7 million points per second, it can accurately identify various target attributes such as humans, animals, vehicles, tires, and fallen objects over a large area, providing output information on distance and 3D contours.



Wavelength	1550nm	Input Voltage	9~36V DC
Detection Range	2~60m (Max 150m)	Power Consumption	≤40W
Range Precision	±2cm	Communication Interface	Industrial Ethernet
FPS	10Hz	Operating Temperature	-40°C~75°C
Horizontal FOV	120°	IP Grade	IP6K9K
Vertical FOV	73° (±36.5°)	Vibration Test	500m/sec <sup>2</sup> , lasting for 11ms
Angular Resolution (H)	0.155°	Shock Test	5Hz~2000Hz, 3G rms
Angular Resolution (V)	0.146°	Weight	≤3000g
Data Point Generating Rate	3,700,000 pts/sec	Dimensions(LxWxH)	270x160x80 mm