



# Vista™-P90

## 3D Lidar for Smart Machines

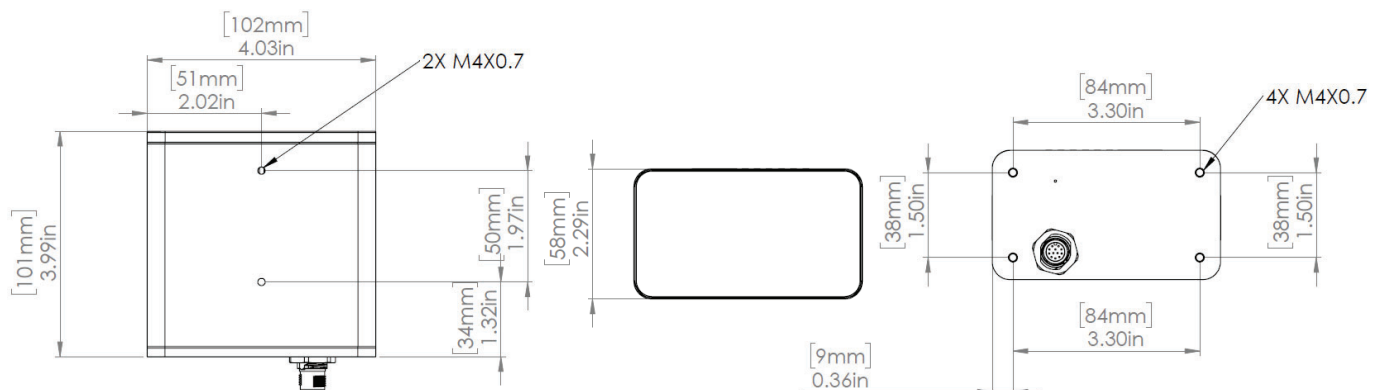


Powered by Cepton's patented MMT™ technology, the Vista-P90 lidar sensor offers an unrivaled combination of performance, reliability and affordability to deliver high resolution 3D imaging and perception for the fast-growing market for autonomous and smart machines. It is designed for all-weather environments and easy integration into automotive vehicles, security systems, transport infrastructure and beyond.

### HIGHLIGHTS

- Wide angle, small form factor;
- Long range, high resolution, uniform distribution;
- Rugged design, competitive pricing;
- Compatibility with Cepton's Helius™ Smart Lidar System for real-time perception;

### EXTERIOR DIMENSIONS\*



\* Subject to change without notice

## SPECIFICATIONS<sup>1</sup>

<b>Max Detection Range</b>	200m at 80% reflectivity
<b>FOV (HxV)</b>	90° x 40°
<b>Angular Resolution (HxV)<sup>2</sup></b>	0.38° x 0.38°
<b>Frame Rate</b>	10 fps/20 fps
<b>Range Accuracy<sup>3</sup></b>	± 2 cm
<b>Operating Voltage</b>	10V-15V
<b>Power Consumption</b>	12W (typical)
<b>Laser Wavelength</b>	905 nm
<b>Laser Safety</b>	Class-1 eye safe
<b>Multi Return</b>	Up to 2 returns
<b>Vibration</b>	5G rms 10-2,000 Hz
<b>Shock</b>	50G
<b>Operating Temperature</b>	-40°C ~ +85°C
<b>Storage Temperature</b>	-40°C ~ +105°C
<b>Environmental Protection</b>	IP67
<b>Network</b>	100 Mbps Ethernet
<b>Platform Support</b>	Windows, Linux
<b>Points per Second</b>	~320K points/sec (single return)
<b>Data per point</b>	Time stamp, angle (HxV), range, reflectivity
<b>Time Synchronization</b>	GPS (PPS), Ethernet (PTP 802.1AS)
<b>Size (WxHxD)</b>	102 x 58 x 101 mm (without connector)
<b>Weight</b>	1.1 kg

1. Specifications are preliminary and subject to change without notice.

2. Average angular resolution at 10 fps.

3. Range accuracy is measured at 20 m with a 50% reflectivity target at room temperature.

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