

# Velodyne Lidar products: Best-in-Class Performance



	Puck / lite / hi-res	Ultra Puck	Alpha Prime	HDL32
<b>Range</b>	100m	200m	300m	100m
<b>Range Accuracy</b>	Up to ±3 cm	Up to ±3 cm	Up to ±3 cm	Up to ±2 cm
<b># Lines</b>	16	32	128	32
<b>Vertical Resolution</b>	2.0°	0.33° (min)	0.11° (min)	1.33°
<b>Vertical FoV</b>	30°/20°	40°	40°	41.33°
<b>Horizontal FoV</b>	360°	360°	360°	360°
<b>Horizontal Resolution</b>	0.1° - 0.4°	0.1° - 0.4°	0.1° - 0.4°	0.1° - 0.4°
<b>Points per Second (Dual Return Mode)</b>	~ 600,000	~ 1,200,000	~ 4,800,000	~ 1.390,000
<b>Weight</b>	~830 / 590 g	~925 g	~3.5 kg	1.0 kg
<b>Ideal Use Price Performance Options</b>	<ul style="list-style-type: none"> <li>• Mapping where price and light weight are essential</li> <li>• Robot navigation</li> </ul>	<ul style="list-style-type: none"> <li>• Medium range mapping</li> <li>• High point density</li> <li>• ADAS applications</li> </ul>	<ul style="list-style-type: none"> <li>• Long range mapping</li> <li>• Very high point density</li> </ul>	<ul style="list-style-type: none"> <li>• Normal range mapping</li> <li>• Medium laser point density</li> <li>• The best accuracy of any Velodyne Lidar</li> <li>• Classic work horse</li> <li>• The whole head rotates which can be useful to get rid of water</li> </ul>