Velodyne Lidar

Puck LITE

LIGHT WEIGHT REAL-TIME LIDAR SENSOR















Puck LITE

Velodyne Lidar's Puck LITE is our lightest sensor - specially designed for applications that require a lower weight. Aside from the weight, the Puck LITE has identical performance to the Puck. It has a range of 100 m and generates up to ~600,000 points/second, across a 360° horizontal field of view and a 30° vertical field of view.

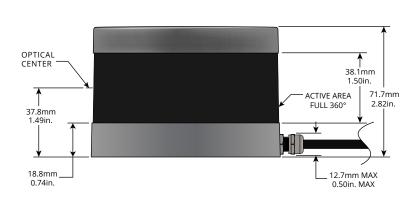
A compact footprint and an industry leading weight for a lidar sensor with high resolution makes the Puck LITE ideal for UAV/drone and mobile applications in the areas of 3D mapping/imaging, inspection and navigation. The Puck LITE has best-in-class power, which enables operation over a wide temperature range. It's use of off-the-shelf components enables enhanced scalability and attractive volume pricing. Like other Velodyne sensors, the Puck has world-class technical support available across North America, Europe & Asia from the world's leading lidar company.

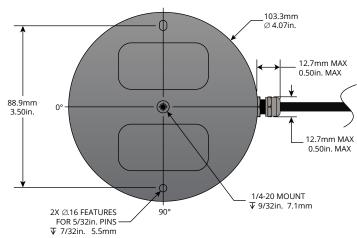


Puck LITE at a glance

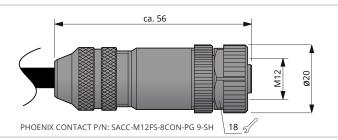
- 100 m range with compact form factor
- Lightest performance-optimized sensor
- Proven, Class 1 eye-safe 905 nm technology
- Top-of-the-line field-of-view
- Best-in-class accuracy and calibrated intensity
- Best-in-class power & temperature range
- Sensor-to-sensor interference mitigation feature
- Versatile, with attractive volume pricing

DIMENSIONS (Subject to change)





M12 CONNECTOR OPTION



For other connector options contact **Velodyne Sales (sales@velodyne.com)**

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The Puck LITE provides high definition 3-dimensional information about the surrounding environment.



	Specifications:
Sensor:	 16 Channels Measurement Range: 100 m Range Accuracy: Up to ±3 cm (Typical)¹ Field of View (Vertical): +15.0° to -15.0° (30°) Angular Resolution (Vertical): 2.0° Field of View (Horizontal): 360° Angular Resolution (Horizontal/Azimuth): 0.1° – 0.4° Rotation Rate: 5 Hz – 20 Hz Integrated Web Server for Easy Monitoring and Configuration
Laser:	 Laser Product Classification: Class 1 Eye-safe per IEC 60825-1:2007 & 2014 Wavelength: 903 nm
Mechanical/ Electrical/ Operational	 Power Consumption: 8 W (Typical)² Operating Voltage: 9 V - 18 V (with Interface Box and Regulated Power Supply) Weight: ~590 g (without Cabling and Interface Box) Dimensions: See diagram on previous page Environmental Protection: IP67 Operating Temperature: -10°C to +60°C³ Storage Temperature: -40°C to +105°C
Output:	 3D Lidar Data Points Generated: Single Return Mode: ~300,000 points per second Dual Return Mode: ~600,000 points per second 100 Mbps Ethernet Connection UDP Packets Contain: Time of Flight Distance Measurement Calibrated Reflectivity Measurement Rotation Angles Synchronized Time Stamps (µs resolution) GPS: \$GPRMC and \$GPGGA NMEA Sentences from GPS Receiver (GPS not included)

63-9286 Rev-K VLP-16-LW

For more details and ordering information, contact Velodyne Sales (sales@velodyne.com)

- 1. Typical accuracy refers to ambient wall test performance across most channels and may vary based on factors including but not limited to range, temperature and target reflectivity.
- 2. Operating power may be affected by factors including but not limited to range, reflectivity and environmental conditions.
- 3. Operating temperature may be affected by factors including but not limited to air flow and sun load.



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