Velodyne LiDAR®

Puck LITE

LIGHT WEIGHT REAL-TIME 3D LIDAR SENSOR



Puck LITE













Our Lightest Sensor Ever

Velodyne LiDAR's Puck LITE is a lighter version of the VLP-16 Puck for applications that demand a lower weight to meet their requirements. Aside from the weight, the Puck LITE has identical performance to the VLP-16. The sensor retains Velodyne's patented 360° surround view to capture real-time 3D LiDAR data that includes distance and calibrated reflectivity measurements.

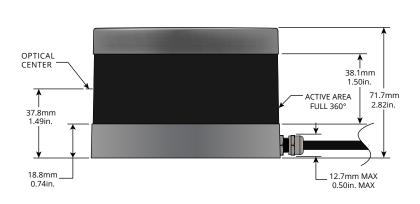
Unprecedented Field of View and Point Density

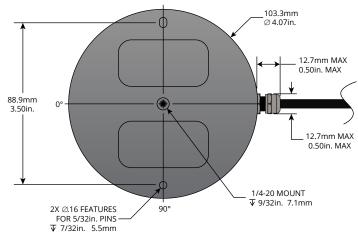
The Puck LITE has a range of 100 m with dual return mode to capture greater detail in the 3D image with a low power consumption. A compact footprint and an industry leading weight for a LiDAR sensor with high resolution makes it ideal for UAV/drone and mobile applications in the areas of 3D mapping/imaging, inspection and navigation.

The Puck LITE supports 16 channels and generates approximately 300,000 points/second from a 360° horizontal field of view and a 30° vertical field of view (±15° from the horizon) The Puck LITE has no visible rotating parts and is encapsulated in a package that allows it to operate over a wide temperature range and environmental conditions.

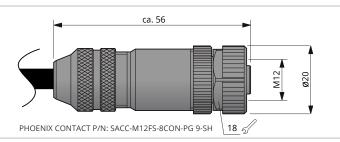


DIMENSIONS (Subject to change)





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-H

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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