Velodyne LiDAR™

Puck LITE™

LIGHT WEIGHT REAL-TIME 3D LiDAR

UAV

Mapping

Automotive

Security

Robotics

Automation

Puck LITE

Our lightest sensor ever.

Velodyne LiDAR's Puck LITE is a lighter weight version of the VLP-16 Puck for applications that demand a lower weight to meet their requirements. The Puck LITE has identical performance to VLP-16 with the only difference in weight of 590 g vs. 830 g for the latter. No other changes have been made to Puck LITE as it retains its patented 360° surround view to capture real-time 3D LiDAR data that includes distance and calibrated reflectivity measurements.

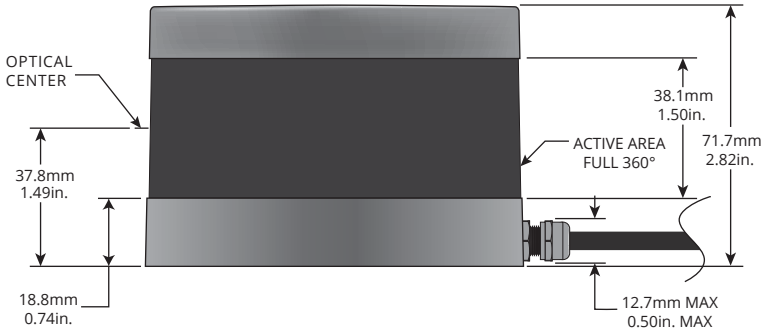
Puck LITE™

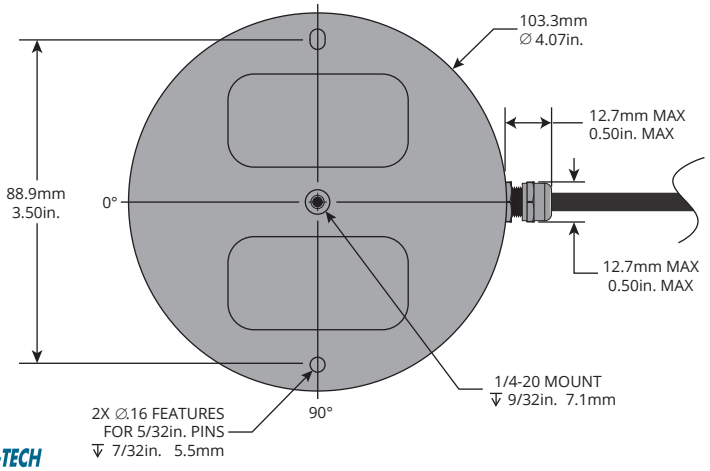
Unprecedented Field of View and Point Density

The Puck LITE has a range of 100 m with dual return mode to capture greater detail in the 3D image while the power consumption is approximately 8 W. A compact footprint (Ø103mm x 72mm) and an industry leading weight of 590 g 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.

It supports 16 channels and generates 300,000 points/second from a 360° horizontal field of view and a 30° vertical field of view with ±15° from the horizon. The Puck LITE has no visible rotating parts and is encapsulated in package that allows it to operate over a wide temperature range (-10°C to +60°C) and environmental conditions (IP67).

DIMENSIONS





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Puck LITE

Light weight Real-Time 3D LiDAR

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

Specifications:	
Sensor:	• Time of Flight Distance Measurement with Calibrated Reflectivities • 16 channels • Measurement Range: Up to 100 m • Accuracy: ±3 cm (typical) • Dual Returns • Field of View (Vertical): +15.0° to -15.0° • 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:	• Class 1 – Eye-safe • 903 nm Wavelength
Mechanical/ Electrical/ Operational	• Power Consumption: 8 W (typical) • Operating Voltage: 9 V – 18 V (with Interface Box and Regulated Power Supply) • Weight: 590 g (without cabling) • Dimensions: 103 mm diameter x 72 mm height • Shock: 500 m/s^2 amplitude, 11 ms duration • Vibration: 5 Hz to 2,000 Hz, 3Grms • Environmental Protection: IP67, Type 4 Enclosure • Operating Temperature: -10°C to +60°C • Storage Temperature: -40°C to +105°C
Output:	• Up to 300,000 points per second • 100 Mbps Ethernet Connection • UDP Packets Contain: - Time of Flight Distance Measurement - Calibrated Reflectance Measurement - Rotation Angles - Synchronized Time Stamps (µs resolution) • GPS: $GPRMC NMEA Sentence from GPS Receiver (GPS not included)

Product Ordering Information:

Product Name	Connector Type	SKU Ordering Number
Puck LITE	RJ45	80-VLP-16-C0B20P30SR4SL
Puck LITE	M12	80-VLP-16-C0B20P30SM1SL

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63-9286 Rev-A

CLASS 1 LASER PRODUCT

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