



Velodyne LiDAR PUCK

VLP-16



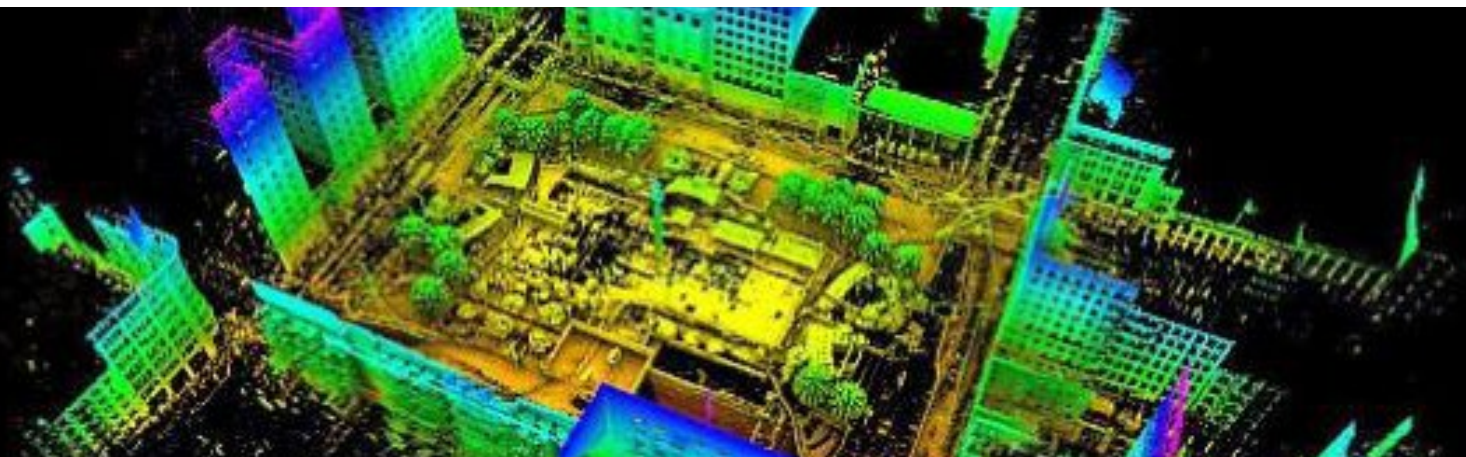
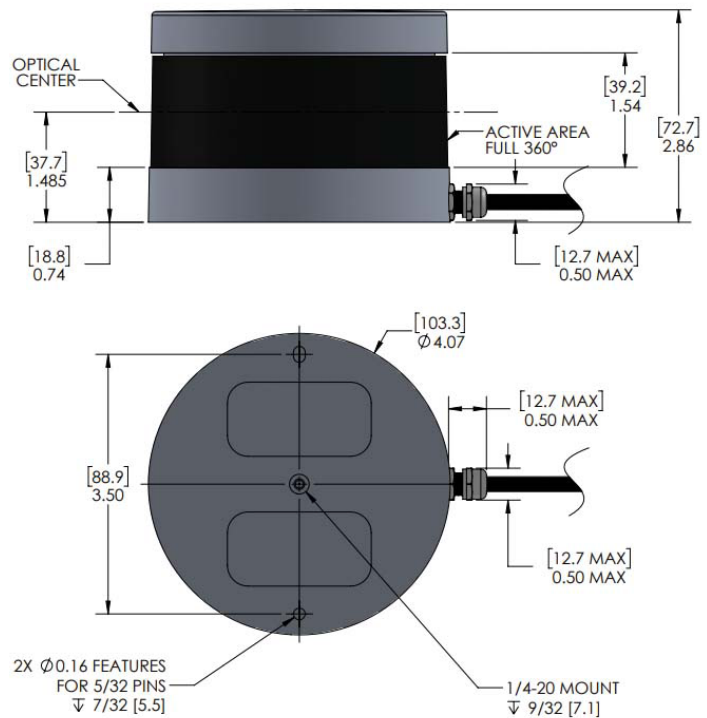
Velodyne's VLP-16 is the smallest, newest and most advanced LiDAR in the Velodyne LiDAR 3D product line.

With a range of 100 m, it performs 360° 3D scans in real time. With low power (~ 8W) and a small footprint (Ø103mm x 72mm for 830 grams), it is easily integrated on Catarob, CAT-Surveyor and SeaCAT surface drones (USV) for 3D modeling of airborne infrastructure.

This LiDAR supports 16 channels (~ 300,000 points / s) with a 30° opening radius.

All of these sensors incorporate Double-Echo technology, allowing it to penetrate the canopy.

This «Puck» has no visible rotating parts, making it very durable in harsh environments (IP67).



TECHNICAL SPECIFICATIONS

| | |
|-----------------------------------|--|
| SENSOR | 16 channels |
| | Max distance: 100m |
| | Precision: +/- 3 cm |
| | Double back |
| | Opening (vertical): 30° (+15° to -15°) |
| | Angular resolution (vertical): 2°. |
| | Ouverture (horizontale/azimuth): 360° |
| | Opening (horizontal/azimuth): 360 |
| | Rotation frequency: 5 - 20 Hz |
| | More than 300 000 points/sec |
| | Integrated web server for control and configuration |
| LASER | Class 1 - eye safe |
| | Wavelength: 903 nm |
| ELECTRONICS/ MECHANICS | Power consumption: 8 W |
| | Voltage: 9 - 32 VDC (with interface box and regulated power supply) |
| | Weight: 830 g. (without cabling) |
| | Dimensions: 103 mm (diameter) x 72 mm (height) |
| | Vibration: 5 Hz à 2000 Hz, 3G rms |
| | Protection class: IP67 |
| | Operating temperature : -10° to +60° C |
| | Storage temperature : - 40° to +105° C |
| OUTPUT | 100 Mbps Ethernet connection |
| | UDP protocol containing: <ul style="list-style-type: none">- distances- calibrated reflectivities- rotation angles- synchronized timestamps (µs resolution) |
| | NMEA frames from the GPS receiver (GPS not included) |
| | |



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