Velodyne Lidar Puck Hi-Res

HIGH RESOLUTION REAL-TIME 3D LIDAR SENSOR



Puck Hi-Res

Velodyne LiDAR's Puck Hi-Res is a higher resolution version of the Puck and used in applications that requires greater resolution in the captured 3D image. The Puck Hi-Res has identical performance to VLP-16 with the only differences in the vertical field of view (FoV) which is 20° instead of 30° and therefore a tighter channel distribution where it is 1.33° instead of 2.00° between channels. No other changes have been made to Puck Hi-Res as it retains its patented 360° surround view to capture real-time 3D LiDAR data that includes distance and calibrated reflectivity measurements.

Higher Resolution at Longer Distances while Maintaining High Point Density

The Puck Hi-Res has a range of 100 m with dual return mode to capture greater detail in the 3D image at longer ranges at a low power consumption. A compact footprint with closer spacing between channels to enable greater resolution of 3D images, the Puck Hi-Res provides more detailed views in applications such as autonomous vehicles, surveillance and 3D mapping/imaging.

It supports 16 channels and generates 300,000 points/second from a 360° horizontal field of view and a 20° vertical field of view with $\pm 10^{\circ}$ from the horizon. The Puck Hi-Res has no visible rotating parts and is encapsulated in a package that allows it to operate over a wide temperature range and environmental conditions.



103.3mm Ø 4.07in. 12.7mm MAX OPTICAL 0.50in. MAX CENTER 38.1mm 1.50in. 88.9mm 09 ACTIVE AREA 71.7mm 3.50in. 2.82in. FULL 360 37.8mm 1.49in. 12 7mm MAX 0.50in. MAX 18.8mm 12.7mm MAX 1/4-20 MOUNT 0.74in. 0 50in MAX ¥ 9/32in. 7.1mm 2X Ø.16 FEATURES 90 FOR 5/32in. PINS ₹ 7/32in. 5.5mm **M12 CONNECTOR OPTION** ca. 56 M12 Ø20

DIMENSIONS (Subject to change)



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18 5/

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



63-9318 Rev-E

- 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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