Ouster Introduces 3D Zone Monitoring for REV7 Digital Lidar Products

March 17, 2025

- *First time perception logic has been embedded directly into 3D digital lidar*
- *Feature expected to unlock further expansion into the billion dollar market for 2D industrial lidar*

SAN FRANCISCO--(BUSINESS WIRE)--Mar. 17, 2025-- Ouster, Inc. (Nasdaq: OUST) ("Ouster" or the "Company"), a leading provider of high-performance lidar sensors and solutions, today introduced on-sensor 3D Zone Monitoring, a new feature that enables the lidar sensor to detect surrounding objects within customer-defined zones and trigger real-time alerts or actions. The feature will be made available via a firmware update to REV7 customers. The Company expects 3D Zone Monitoring to expand its addressable market, simplify customer development, and make its product usability easier than ever before.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20250317691370/en/

3D digital lidar for warehouse automation

Existing 2D industrial lidar sensors typically offer 2D zone monitoring that allows simple mobile platforms to detect and avoid obstacles, but these sensors suffer from limited field of view and low resolution that make it difficult to detect all obstacles and enable the next generation of flexible industrial robotics. For the first time, Ouster is embedding 3D zone monitoring directly into the REV7 OS0, OS1 and OSDome sensor lineup, allowing customers to take advantage of the convenience and security of on-board zone monitoring in high performance 3D digital lidar.

3D Zone Monitoring's primary functionality supports collision avoidance on moving vehicles, such as forklifts, with warnings, deceleration, and emergency stop. This feature addition is the result of significant demand from material handling customers, which will enable them to reduce the development time of collision avoidance systems while still leveraging the 3D point cloud data and freeing up software development resources and compute power for other tasks.

Key features include:

- **Custom 3D Zones**: Create and store up to 128 distinct 3D zones on-sensor for flexible monitoring.
- **Real-Time Monitoring:** Actively monitor up to 16 zones with real-time statistics.
- **Configurable Filters:** Reduce false positives in the presence of obscurants with tunable filters for each zone.
- **Dynamic Zone Switching**: Rapidly switch between active zones based on vehicle inputs such as speed and steer angle.
- **Parallel Data Processing**: Monitor zones and simultaneously output raw point cloud data for more complex tasks.

"Introducing 3D Zone Monitoring on REV7 sensors is a major step towards becoming an autonomy company," said Ouster CEO Angus Pacala. "This feature will immediately serve our warehouse automation and industrial customers, and we expect it to unlock additional opportunities across all our markets."

3D Zone Monitoring will be made available to Ouster customers using REV7 digital lidar products through its upcoming Firmware 3.2 release. For more information, visit: https://ouster.com/industries/zone-monitoring.

About Ouster

Ouster (Nasdaq: OUST) is a leading global provider of high-resolution scanning and solid-state lidar sensors and software solutions for the automotive, industrial, robotics, and smart infrastructure industries. Ouster is on a mission to build a safer and more sustainable future by offering affordable, high-performance sensors that drive mass adoption across a wide variety of applications. Ouster is headquartered in San Francisco, CA with offices in the Americas, Europe, and Asia-Pacific. For more information about our products, visit www.ouster.com, contact our sales team, or connect with us on X or LinkedIn.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. The Company intends such forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Such statements are based upon current plans, estimates and expectations of management that are subject to various risks and uncertainties that could cause actual results to differ materially from such statements. The inclusion of forward-looking statements should not be regarded as a representation that such plans, estimates and expectations will be achieved. Words such as "will", "expect," "intend," "may," "should," "plan," "can," "could," "offer," "estimate," "possible," "potential," "pursue," "demonstrate," and the negative of these terms and similar expressions are intended to identify forward-looking statements, though not all forward-looking statements use these words or expressions. All statements, other than historical facts, including statements regarding the benefits of Ouster's hardware and software offerings and software-attached offerings, total addressable market for

Ouster's products and offerings, impacts on other revenue streams, industry and business trends, Ouster's business objectives, plans, market growth and Ouster's competitive position, all constitute forward-looking statements. All forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those that we expected, including, but not limited to, Ouster's ability to accurately anticipate market demand for its products and offerings and other important risk factors discussed in the Company's Annual Report on Form 10-K for the year ended December 31, 2023, as updated by the Company's most recent Quarterly Report on Form 10-Q and as may be further updated from time to time in the Company's other filings with the SEC. Readers are urged to consider these factors carefully and in the totality of the circumstances when evaluating these forward-looking statements, and not to place undue reliance on any of them. Any such forward-looking statements represent management's reasonable estimates and beliefs as of the date of this press release. While Ouster may elect to update such forward-looking statements at some point in the future, it disclaims any obligation to do so, other than as may be required by law, even if subsequent events cause its views to change.

View source version on businesswire.com: https://www.businesswire.com/news/home/20250317691370/en/

Investors
investors@ouster.io

Media
press@ouster.io

Source: Ouster, Inc.