



Aeva Introduces Omni, the First Compact Wide-View Short-Range 4D LiDAR Sensor for Physical AI Applications

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New Panoramic 360° × 90° Field of View Sensor Developed in Collaboration with LG Innotek Delivers Perception for Autonomous Vehicles, Robotics, Drones, Defense, Warehouse Automation, and Smart Infrastructure Applications

LAS VEGAS--(BUSINESS WIRE)--Jan. 6, 2026-- Today, at CES 2026, [Aeva®](#) (Nasdaq: AEVA), a leader in next-generation sensing and perception systems, announced [Aeva Omni™](#), the industry's first wide-view short-range 4D LiDAR sensor for physical AI applications. Developed in partnership with LG Innotek, a leading provider of cutting-edge mobility sensing solutions and an affiliate of the LG Group, Omni provides an unprecedented level of environmental awareness for both dynamic and confined operating environments including autonomous vehicles, drones and defense applications, robotics, warehouse automation, and smart infrastructure. LG Innotek is responsible for hardware integration, manufacturing and quality assurance of the LiDAR system in collaboration with Aeva.

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Aeva introduces Aeva Omni, the first compact wide-view short-range 4D LiDAR sensor for physical AI applications.

Built on Aeva's proprietary Frequency Modulated Continuous Wave (FMCW) technology platform, Omni delivers precise short-range perception with the same unique

advantages of Aeva's core technology, including the ability to detect velocity and position simultaneously, as well as immunity to interference from sunlight and signals from other LiDAR sensors, and to blooming and ghosting around retroreflective objects like lane markers, street signs and safety vests. With a panoramic 360-degree horizontal and a wide 90-degree vertical field of view, Omni enables full-scene coverage for near-field detection, object classification, obstacle avoidance, and real-time situational understanding to unlock automation for a broad set of Physical AI applications.

"Aeva Omni extends the reach of our chip-based FMCW perception platform into a class of applications where wide-view awareness and reliable 360-degree near range performance in a compact form factor are essential," said Mina Rezk, Co-Founder and CTO at Aeva. "From autonomous mobile robots and vehicles, to drones and unmanned ground vehicles, and next-generation smart infrastructure, Omni provides a new level of safety and capability by delivering high-resolution perception across an exceptionally wide field of view."

Wide-View Coverage for Next-Generation Automation

Aeva Omni was engineered to meet growing customer demand for robust short-range perception across multiple industries. Designed to strict standards for durability and reliability, Omni combines per-point velocity data with up to 80 meters of range in a compact 85mm diameter form factor to deliver reliable point-cloud data for environments where objects, equipment, and people may be moving quickly and unpredictably.

The combination of wide-view coverage and FMCW-based velocity measurement enables systems to detect both position and motion simultaneously, helping reduce blind spots, improve path planning, and enhance decision making across a wide variety of automated platforms.

Engineered for real-world deployment, Omni is designed to deliver reliable performance in all weather conditions, achieving IP68 and IP69K ingress protection ratings. This ensures consistent short-range perception in rain, dust, fog, and high-pressure wash-down scenarios, making it suitable for continuous operation in harsh environments.

Extending Aeva's 4D FMCW Portfolio

Omni builds on Aeva's scalable LiDAR-on-Chip technology, adding a transformative short-range, wide-view sensing option to Aeva's existing long-range automotive-grade portfolio. Together, these products support a unified 4D perception platform that spans from immediate near-field awareness to ultra-long-range highway sensing.

Availability

Aeva Omni will be available in second half of 2026 for early customer pilots, with production targeted in 2027. For more information, visit aeva.com/omni or contact sales@aeva.ai.

Aeva at CES 2026

Aeva will exhibit its full portfolio of Frequency Modulated Continuous Wave (FMCW) perception platform solutions at booth #6919 in the West Hall of the Las Vegas Convention Center. These solutions enable advanced automation across automotive, robotics, factory automation, and smart infrastructure applications. Aeva's technology will also be featured in partner exhibits, including LG Innotek at booth #3800 and AGC at booth #6653 in the West Hall. More information regarding Aeva's CES 2026 presence and activities are available online at: aeva.com/ces.

About Aeva Technologies, Inc. (Nasdaq: AEVA)

Aeva's mission is to bring the next wave of perception to a broad range of applications from automated driving, manufacturing automation and smart infrastructure, to robotics and consumer devices. Aeva is accelerating autonomy with its groundbreaking perception platform that integrates lidar-on-chip technology, system-on-chip processing, and perception algorithms onto silicon leveraging silicon photonics. Aeva 4D LiDAR sensors uniquely detect velocity and position simultaneously, allowing automated devices like vehicles and robots to make more intelligent and safe decisions. For more information, visit www.aeva.com, or connect with us on [X](#) or [LinkedIn](#).

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Forward looking statements

This press release contains certain forward-looking statements within the meaning of the federal securities laws. Forward-looking statements generally are identified by the words "believe," "project," "expect," "anticipate," "estimate," "intend," "strategy," "future," "opportunity," "plan," "may," "should," "will," "would," "will be," "will continue," "will likely result," and similar expressions. These forward-looking statements include, but are not limited to expectations about our product features, performance, potential applications, and the timing of production, and market adoption. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this press release, including, but not limited to: (i) the fact that Aeva is an early stage company with a history of operating losses and may never achieve profitability, (ii) Aeva's limited operating history, (iii) the ability to implement business plans, forecasts, and other expectations and to identify and realize additional opportunities, (iv) the ability for Aeva to have its products selected for inclusion in OEM products for commercial scale production, (v) the commercial success of any OEM products in which Aeva's products might be included, (vi) unforeseen manufacturing issues or defects, (vii) Aeva's ability to scale production if any products achieve commercial success, (viii) market acceptance of LiDAR technology and autonomous driving and other applications, (ix) general economic conditions and other material risks and other important factors that could affect our financial results. Please refer to our filings with the SEC, including our most recent Form 10-Q and Form 10-K. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Aeva assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise. Aeva does not give any assurance that it will achieve its expectations.

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