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Arbe Introduces the Gryphon Radar System, Bringing Reliable Perception to Unmanned Ground Vehicles on Rough Terrain

New Offering Expands Arbe's Radar Technology into the Growing Ground Autonomy Market

TEL AVIV, Oct. 19, 2026 /PRNewswire/ -- [Arbe Robotics Ltd.](#) (Nasdaq: ARBE) (TASE: ARBE), a global leader in ultra-high-resolution radar solutions, today introduced the Gryphon Radar System, a new ultra-high-resolution 4D imaging radar designed for unmanned ground vehicles (UGVs), bringing reliable perception to vehicles navigating dust, rough terrain, and unpaved routes, where other sensors typically provide degraded imaging. The new system expands Arbe's addressable markets to include the growing UGV market.



The global UGV market is [projected](#) to reach \$7.7 billion by 2033 growing at a CAGR of 10%, driven by expanding adoption across both military and civilian applications. UGVs are increasingly being deployed for defense, logistics, mining, agriculture, and industrial applications, where vehicle autonomy both reduces human exposure to hazardous environments and increases efficiency.

As these vehicles become more autonomous, perception and navigation become increasingly critical. Unlike vehicles on paved roads, UGVs operate across unstructured terrain, often where GNSS satellite navigation is degraded or unavailable. Dust, smoke, fog, rain, snow, and darkness are daily off-road conditions that can significantly limit cameras and lidar, creating a need for perception technologies that continue to provide detailed and

reliable imaging when visibility is degraded.

Gryphon is designed to provide the perception foundation for ground autonomy. Its dense 4D imaging radar data provides the spatial detail required to detect and separate rocks, debris, barriers, vegetation, and other obstacles, as well as negative obstacles such as ditches, holes, and washouts where the vehicle cannot safely drive. Beyond detecting the environment, the radar data enables free-space mapping, tracking, odometry, and localization, supporting navigation in environments where GNSS is unavailable.

"We believe that Gryphon will deliver the highly detailed perception that UGVs need to navigate and operate autonomously through dust, unstructured terrain, and other challenging conditions," said Ram Machness, CEO of Arbe. "For Arbe, this opens a significant new market, where the capabilities of our ultra-high-resolution radar are particularly well suited to the challenges these vehicles face. With Gryphon, we are bringing our complete radar technology stack to market as a radar system built for the realities of off-road autonomy."

Built on Arbe's automotive-grade radar architecture, Gryphon combines 48 transmitting and 48 receiving channels to generate a dense 4D point cloud. It is compact and easy to integrate: its solid-state hardware has no moving parts, is optimized for low SWaP-C (size, weight, power, and cost), and supports extended data cable lengths for flexible sensor placement. Gryphon scales from small UGVs to large industrial and heavy-duty vehicles, and from operator assistance and remote operation to leader-follower convoys and full autonomy.

About Arbe Robotics Ltd.

Arbe (Nasdaq: ARBE), a global leader in ultra-high-resolution radar solutions, is redefining radar as a core sensing platform for next-generation mobility and defense. Arbe's complete radar technology stack, from proprietary chipsets to radar systems and AI algorithms that produce perception-ready data, delivers the detail and real-time processing that demanding sensing applications require. Arbe enables OEMs, Tier-1s, and defense integrators to build more capable perception systems for passenger vehicles, robotaxis, heavy machinery, counter-drone systems, and unmanned ground vehicles.

Headquartered in Tel Aviv, Israel, Arbe also operates offices in the United States, Germany, and China. For more information, visit arberobotics.com.

Cautionary Note Regarding Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of the Securities Act of 1933 and the Securities Exchange Act of 1934, both as amended by the Private Securities Litigation Reform Act of 1995. The words "expect," "believe," "estimate," "intend," "plan," "anticipate," "may," "should," "strategy," "future," "will," "project," "potential," and similar expressions indicate forward-looking statements. 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. These risks and uncertainties include the possible delisting of the Company's ordinary shares from Nasdaq in the event the bid price per share of the Company's ordinary shares remains below \$1.00; the effect on the Israeli economy generally and on the Company's business resulting from terrorism and hostilities in Israel; the ability of the Company to

successfully develop and market its radar systems, including Gryphon, and deliver units in a timely and profitable manner; the ability of such systems to operate as planned under applicable operating conditions; and the risks and uncertainties described in "Cautionary Note Regarding Forward-Looking Statements," "Item 3. Key Information – D. Risk Factors" and "Item 5. Operating and Financial Review and Prospects" in the Company's Annual Report on Form 20-F for the year ended December 31, 2025, filed with the Securities and Exchange Commission (the "SEC") on March 27, 2026, as well as other documents filed by the Company with the SEC. Accordingly, you are cautioned not to place undue reliance on these forward-looking statements. Forward-looking statements relate only to the date they were made, and the Company does not undertake any obligation to update forward-looking statements to reflect events or circumstances after the date they were made except as required by law or applicable regulation.

Information contained on, or that can be accessed through, the Company's website or any other website or social media is expressly not incorporated by reference into and is not a part of this press release.

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