WRAP Advances WrapShield™ Toward Commercialization as Frenel Completes Key Engineering and Certification Milestone

November 16, 2026

Integration of TPiCore® polarimetric sensing into a MIL-STD-810 and IP67 certified operational gimbal marks a significant step toward market-ready counter-UAS detection capabilities for defense and homeland security customers

Highlights:

- Frenel has completed integration of its TPiCore® polarimetric thermal channel and edge processing into an operational, dual-channel electro-optical gimbal produced by a leading defense manufacturer.
- The integrated system was certified to MIL-STD-810 environmental requirements and IP67 ingress protection in October 2026 under the manufacturer's delivery protocol.
- The host gimbal platform is approved for and in service with global defense users, including the U.S. Army, giving TPiCore® a field-qualified platform rather than a bespoke enclosure.
- The system provides operator pan, tilt and zoom control and real-time polarimetric processing at the edge on NVIDIA Jetson hardware, with no cloud or radio-frequency dependency.
- Certification follows a one-week deployment of the integrated configuration at an active border installation in July 2026, in temperatures reaching 51°C (124°F) and dusty conditions.

MIAMI, Nov. 16, 2026 (GLOBE NEWSWIRE) -- Wrap Technologies, Inc. (Nasdaq: WRAP) ("WRAP", the "Company" or "we") today announced that its WrapShield™ detection partner, Frenel Imaging Ltd. ("Frenel"), has completed the integration of its TPiCore® polarimetric thermal channel and edge processing into an operational, dual-channel electro-optical gimbal produced by a leading defense manufacturer. The integrated system was certified to MIL-STD-810 environmental requirements and IP67 ingress protection in October 2026 as part of the manufacturer's delivery protocol.

The Company believes the milestone is an important step in moving TPiCore® from a validated sensing capability toward deployable, military-standard hardware, and it provides the physical platform on which the passive detection and tracking layer of WrapShield™ is being built. Military and homeland security customers do not procure sensors in isolation. They procure qualified systems that survive heat, cold, shock, vibration, humidity, sand and dust, and that can be sealed against the environment they will actually operate in. A detection layer that cannot survive the field cannot hold a track in it.

Rather than building a bespoke enclosure, Frenel integrated its technology into a gimbal platform that is approved for and in service with global defense users, including the U.S. Army, replacing the platform's conventional thermal channel with a polarimetric thermal channel. The result is a field-qualified host platform with pan, tilt and zoom control from the operator console and real-time polarimetric processing at the edge on NVIDIA Jetson hardware, with no cloud and no radio-frequency dependency in the decision loop.

The demand side has moved from planning to operations over the past quarter. In October the Pentagon selected four directed-energy systems for a year-long homeland counter-drone pilot at five U.S. installations, according to Military Times[1]. Joint Task Force-Southern Border reported 378 drone detections along the U.S.-Mexico border between August 22 and September 22, 2026,[2] and in August the U.S. military used an Army high-energy laser to bring down drones it linked to Mexican cartels. Directed-energy and kinetic effectors both depend on a stable, classified track held long enough to engage. Passive electro-optical and infrared sensing can provide that track without emitting, and the Joint Interagency Task Force 401 counter-drone sensor guide published in September emphasizes passive, non-disruptive detection for domestic airspace.

"Certification is the point where a technology move from a demonstration toward a product," said Sagi Zur-Arie, Chief Technology Officer of Frenel. "Our polarimetric channel now sits inside a gimbal that is built, sealed and certified to the standard defense users already rely on, and it processes in real time at the edge. The physics has always been our advantage. Now the hardware matches it."

Conventional thermal cameras measure one variable, which is temperature. TPiCore® captures the polarization of thermal radiation at the pixel level and resolves three physically independent variables: the angle of linear polarization, which encodes surface orientation, the degree of linear polarization, which encodes material and surface texture, and thermal intensity. Two of the three are largely independent of temperature. That is why a composite drone flying low against a treeline, or a camouflaged object that has settled to the same temperature as its background, can remain visible to TPiCore® when it disappears from a

conventional thermal image. The Company believes this polarimetric signature cannot be spoofed, jammed or switched off, and because the sensor emits nothing in order to see, it does not reveal its own position.

Within WrapShield™, Frenel's technology forms the Detect layer, feeding the Orchestrate layer's human-supervised decision support and cueing the Respond layer's effectors through a chain that runs detect, classify, track, prioritize, hand off, authorize, engage and assess, with authorization remaining a human decision at every tier. The same passive track is the foundation of WRAP's directed-energy work, in which Frenel's detection and classification technology is being integrated as the perception and tracking layer for laser effector systems developed by an established directed-energy manufacturer. That program remains in a development phase.

"Our strategy at WRAP is to identify, integrate, and commercialize advanced technologies that address the evolving needs of public safety, homeland security, and defense," said Jared Novick, President of WRAP. "Frenel's achievement represents an important step in that strategy, moving differentiated sensing technology from development into certified, operational hardware. As we continue building WrapShield, our focus is on bringing together proven technologies into an integrated, scalable platform that enables customers to detect threats earlier, make better-informed decisions, and respond more effectively. This milestone strengthens the foundation for our next phase of growth."

What Comes Next

Frenel expects to report results from its 2026 operational trial program, including the July border deployment of the configuration announced today, and is preparing the integrated system for demonstration in the United States.

About WRAP Technologies, Inc.

WRAP Technologies, Inc. (NASDAQ: WRAP) is a public safety technology company developing Non-Lethal Response solutions and emerging security technologies. Through its integrated products, training, services and strategic technology initiatives, WRAP is committed to Operationalizing De-Escalation and expanding capabilities for public safety and national-security professionals.

About Frenel Imaging Ltd.

Frenel Imaging Ltd. specializes in polarimetric thermal imaging for defense, security, and precision-sensing applications. Its Division of Focal Plane (DoFP) architecture delivers simultaneous polarimetric and thermal data at the pixel level, processed in real time on deployable edge hardware. Frenel is a 2024 SPIE Prism Award recipient and NVIDIA Inception Program member. http://www.frenel.ai

Trademark Information

WRAP, the Wrap logo, BolaWrap®, Non-Lethal Response™, WrapReality™, WrapShield™, WrapTactics™, Wraptor MX™ Wrap Training Academy are trademarks of WRAP Technologies, Inc., some of which are registered in the U.S. and abroad. All other trade names used herein are either trademarks or registered trademarks of their respective holders.

Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements other than statements of historical fact are forward-looking statements. Words such as "expect," "anticipate," "should," "believe," "target," "project," "goals," "estimate," "potential," "predict," "may," "will," "would," "could," "intend," "plan," "seek," "continue," "designed to," and variations of these terms or the negative of these terms and similar expressions are intended to identify these forward-looking statements. Forward-looking statements include, among others, statements regarding the development, capabilities, performance, timing and commercial readiness of WrapShield™ and its detection layer, including Frenel's TPiCore® technology and the integrated gimbal system; the results and timing of Frenel's operational trial program and planned demonstrations in the United States; the integration of Frenel's technology with directed-energy and other effector systems; government demand for counter-unmanned aircraft systems and related programs; and the Company's strategy of scaling its core Non-Lethal Response business while developing next-generation WrapShield technologies, capabilities, and partnerships. These statements are based on current expectations and assumptions and are subject to risks and uncertainties, including but not limited to the ability of Frenel and its manufacturing and technology partners to complete development, testing and integration on expected timelines; the Company's dependence on Frenel, a separate company that the Company does not control, and on third-party manufacturers and directed-energy partners; the pace of customer and agency adoption; government procurement cycles and the availability of defense and homeland security funding; export control and other restrictions on defense technologies; changes in law enforcement budgets, policies, procurement practices, and use-of-force standards; the availability and terms of technology and training partnerships, including the Company's ability to maintain its license with Frenel Imaging Ltd.; the Company's ability to develop, achieve commercial readiness for, manufacture, sell, and support its products, training solutions, and emerging technologies, including the difference between development-stage initiatives and commercially available products; supply-chain and manufacturing constraints; competitive conditions; the Company's ability to attract and retain qualified personnel; general economic and market conditions; and changes in law, regulation, or agency policy. ATF Ruling 2026-2 addresses the classification of the BolaWrap® 150 only, and no assurance can be given that any similar classification will apply to WrapShield, counter-unmanned aircraft systems, or any other product. References in this press release to third-party government programs and publications, including the Pentagon's homeland

counter-drone directed-energy pilot, Joint Task Force-Southern Border counter-drone operations, and the Joint Interagency Task Force 401 counter-drone sensor guide, are provided for industry context only. Neither WRAP nor Frenel is a participant in these programs, and no assurance can be given that WRAP, Frenel, or any of their products will participate in, be selected for, or benefit from these or any similar programs. The Company's actual results could differ materially from those stated or implied in forward-looking statements due to a number of factors, including the risk factors described under "Risk Factors" in the Company's most recent Annual Report on Form 10-K, subsequent Quarterly Reports on Form 10-Q, and other filings with the Securities and Exchange Commission. These forward-looking statements are made as of the date of this release and are based on current expectations, estimates, forecasts, and projections as well as the beliefs and assumptions of management. Readers are cautioned not to place undue reliance on these forward-looking statements. Except as required by applicable law, WRAP undertakes no obligation to update or revise any forward-looking statement.

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[1] Military Times, "Pentagon names 4 directed-energy weapons for counter-drone program at US bases," Oct. 6, 2026. https://www.militarytimes.com/industry/techwatch/2026/10/06/pentagon-names-4-directed-energy-weapons-for-counter-drone-program-at-us-bases/

[2] Reuters, "US Army tests counter-drone tech at Mexican border as cartel drone use rises," Oct. 5, 2026, https://www.militarytimes.com/news/your-military/2026/10/05/us-army-tests-counter-drone-tech-at-mexican-border-as-cartel-drone-use-rises/; DefenseScoop, "Task force says drone threats on US-Mexico border increasingly linked to human trafficking," Sept. 29, 2026, https://defensescoop.com/2026/09/29/task-force-says-drone-threats-on-us-mexico-border-increasingly-linked-to-human-trafficking/