Sensors   
**With TDK sensing solutions, Engo delivers augmented reality eyewear for performance athletics**

* InvenSense, a TDK Group company, partners with Engo, whose augmented reality glasses enhance athletic performance by placing real-time training stats within an athlete’s field of vision
* Using TDK’s compact and ultra-low-power MEMS and TMR sensors with sensor fusion software, Engo offers its AR glasses at the same weight as standard sports sunglasses (36g) and with 12-hour active battery life
* TDK enables sensor-detected user gestures like tap detection, which make interactions seamless while running
* Engo smart glasses will be demonstrated at CES at TDK booth #15803

January 6, 2026

TDK Corporation (TSE:6762) announces a customer partnership of InvenSense, a TDK group company with Engo, a new brand of performance sports eyewear using TDK custom sensing solutions to give athletes the power to train smarter without breaking focus. Engo uses the InvenSense PositionSense™ solution, which integrates MEMS and TMR sensors with sensor fusion software. With this solution, Engo glasses display highly accurate live navigation instructions and real-time stats in a runner’s field of view, without adding weight or draining battery power.

“As athletes ourselves, our team designs the lightest and most comfortable sport eyewear—products we truly want for our own training. These glasses deliver the performance and navigation we need while meeting our weight and battery life targets,” said Engo CEO Eric Marcellin-Dibon. “Energy efficiency has always been at the core of our strategy, and TDK’s sensors and software solutions provide the features we need in the most compact, low-power chip. Their team has been an invaluable partner in turning our innovation ideas into reality.”

PositionSense is a 2-chip 9-axis sensor solution for absolute orientation detection and fast sensor calibration at ultra-low power consumption. It integrates InvenSense’s 6-axis IMU and TDK’s 3-axis TMR-based magnetometer with on-chip sensor fusion software and off-chip pedestrian dead reckoning (PDR) software. This enables optimal positioning accuracy and gesture control for AR glasses and other smart devices. Devices using PositionSense can save battery life, since the sensors remain in a low-power mode while the rest of the device sleeps until other functions are needed.

The 9-axis PositionSense solution has ultra-low power requirements, enabling the Engo glasses’ long 12-hour battery life. This means that marathon runners don’t need to worry about battery charges during events and can focus 100% of their attention on their form and pace.

This TDK solution is easy to integrate into devices due to mature and flexible hardware and software. In addition to smart glasses, PositionSense enables next-gen positioning accuracy and advanced use cases for smartphones, wearables, robots, drones, and other emerging new device types.

“We created the PositionSense solution to enable innovations like Engo’s AR glasses—lightweight technology that empowers seamless extended reality experiences, with natural user gestures,” said Rosa Chow, VP Software, InvenSense. “The stylish design of the Engo glasses integrates intelligent TDK sensor technology invisibly to deliver data in a way that promotes continuous concentration by athletes striving to maximize their performance.”

The TDK sensor solutions within Engo eyewear are available via inquiry at <https://invensense.tdk.com/smart-glasses> or by emailing inv.sales.us@tdk.com.

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**Glossary**

* 6-axis: 3-axis gyroscope + 3-axis accelerometer
* 9-axis: 6-axis IMU + 3-axis TMR magnetometer
* GAF: gyro-assisted fusion
* IMU: inertial measurement unit
* MEMS: micro-electro-mechanical systems
* TMR: tunnel-magneto resistance

**Main applications**

* AI smart glasses
* Augmented and extended reality eyewear
* Fitness or sports eyewear
* Ear buds or headphones
* Smart watches
* Smart rings
* Fitness bands
* AI-powered smart home devices

**Main features and benefits**

* Ultra-low power IMU with lowest power gyroscope in the industry
* Superb vibration rejection with BalancedGyroTM technology
* Ultra-low power TMR magnetometer
* High accuracy head orientation tracking with on-chip gyro-assisted 9 axis fusion (GAF) algorithm, enabling always on magnetometer calibration for correct direction indication
* Customizable activity classification via machine learning and InvenSense sensor inference framework (SIF)
* Ultra-low power on-chip wear sense detection (donning/doffing)
* Intuitive UI control by user through gestures like tap, double/triple tap, head nodding or shaking

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**About TDK Corporation**

TDK Corporation (TSE:6762) is a global technology company and innovation leader in the electronics industry, based in Tokyo, Japan. With the tagline “In Everything, Better” TDK aims to realize a better future across all aspects of life, industry, and society. For over 90 years, TDK has shaped the world from within; from the pioneering ferrite cores to cassette tapes that defined an era, to powering the digital age with advanced components, sensors, and batteries, leading the way towards a more sustainable future. United by TDK Venture Spirit, a start-up mentality built on visions, courage and mutual trust, TDK’s passionate team members around the globe pursue better—for ourselves, customers, partners, and the world. Today, the state-of-the-art technologies of TDK are in everything, from industrial applications, energy systems, electric vehicles, to smartphones and gaming, at the core of modern life. TDK’s comprehensive, innovative-driven portfolio includes cutting-edge passive components, sensors and sensor systems, power supplies, lithium-ion and solid-state batteries, magnetic heads, AI and enterprise software solutions, and more—featuring numerous market-leading products. These are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SensEI, and ATL. Positioning the AI ecosystem as a key strategic area, TDK leverages its global network across the automotive, information and communication technology, and industrial equipment sectors to expand its business in a wide range of fields. In fiscal 2025, TDK posted total sales of USD 14.4 billion and employed about 105,000 people worldwide.

# **About InvenSense**

InvenSense, a TDK group company, is a world-leading provider of custom sensing solutions for consumer electronics, industrial, and automotive applications. InvenSense solutions integrate MEMS and magnetic sensors, such as IMUs, accelerometers, gyroscopes, compasses, microphones, TMR, and ultrasonic time-of flight sensors, with proprietary algorithms and firmware that intelligently process, synthesize, and calibrate the output of sensors for maximized performance and accuracy. InvenSense solutions empower leading technology in smartphones, wearables, hearables, smart home, gaming, IoT, robotics, drones, industrial, automotive, and other applications. Headquartered in San Jose, California and with offices worldwide, InvenSense became part of the Sensor Systems Business Company of TDK Corporation in 2017.

**About ENGO Eyewear**

Founded in Grenoble, France, ENGO is the pioneer of lightweight, augmented reality (AR) technology for endurance sports. Born from a mission to help athletes train smarter and perform better, ENGO creates smart sports glasses that project real-time performance data—such as heart rate, pace, distance and coaching recommendations—directly into the user's field of view. Powered by the ActiveLook® technology platform and its open API for developers, ENGO glasses are the lightest Heads-Up Display (HUD) eyewear on the market. Weighing just 36 grams and offering more than 12 hours of battery life, they allow runners, cyclists, and triathletes to access critical metrics without breaking stride or taking their eyes off the road. For more information, visit www.engoeyewear.com.

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