

 Press Information

Corporate

TDK and LG Innotek form a strategic partnership in the field of physical AI

- TDK and LG Innotek form a strategic partnership, with TDK collaborating on LG Innotek's development of next-generation vision and haptic sensor modules for humanoid robots and other physical AI applications
- Integrated with TDK sensors, LG Innotek modules will act as the 'eyes' and 'skin' of robots, to maximize recognition and tactile performance

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TDK Corporation (TSE: 6762) announces that it has entered into a strategic partnership in the field of Physical AI with LG Innotek (President & CEO: Moon Hyuksoo), a leading global materials and electronic components company. Under this partnership, the two companies will combine LG Innotek's optical and ultra-precision module design technologies with TDK's broad portfolio of sensor technologies to jointly develop a range of Physical AI solutions, including next-generation visual sensing modules and tactile sensing modules for humanoid robots. Through this collaboration, TDK aims to contribute its technologies and sensors to help build the "Body of AI."

With this partnership, the two companies plan joint advanced research to integrate LG Innotek's vision sensing modules with TDK's various sensors, including [InvenSense inertial and position sensors and microphones](#). Through this collaboration, the two companies plan to launch a next-generation vision sensing module that offers expanded functionality and significantly improves recognition performance compared to existing solutions.

LG Innotek CEO Moon Hyuksoo said, "In the robotics industry, multi-sensing(the integration of numerous sensors) is expected to emerge as a key capability. Through our collaboration with TDK, which offers a broad portfolio of sensor technologies, we aim to help shape the ecosystem for core robotic components." He added, "We will continue to expand partnerships with technology leaders, further strengthen the core technologies for robots' vision and hands, and accelerate our efforts to secure a leading position in the Physical AI market."

TDK President and CEO Noboru Saito said, "We are pleased for TDK to join hands with LG Innotek, a world-class leader in physical AI sensing. By combining TDK's diverse fundamental technologies and sensors with LG Innotek's core capabilities, we will add value for customers and bring truly revolutionary products to the global market."

About LG Innotek Co., Ltd.

LG Innotek is a cutting-edge materials and components company. The company is the world's No.1 supplier of smartphone camera modules, leading innovation in mobile imaging technology. It is also at the forefront of advancing future technologies, offering core components for mobility, semiconductors, and robotics, working closely with customers to realize their visions. Headquartered in Seoul, Korea, LG Innotek has sales subsidiaries in Germany, the USA, China, Japan, and Taiwan, and production subsidiaries in China, Vietnam, Indonesia, Mexico, and Poland.

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, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SenseEI, 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 2026, TDK posted total sales of USD 16.6 billion and employed about 107,000 people worldwide.

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