

Corporate

TDK's Meta-Optic Mirror for Smart Glasses Receives METI Minister's Award at CEATEC 2026

October 6, 2026

TDK Corporation (TSE:6762) announced today that its meta-optic mirror for smart-glasses displays has received the Minister of Economy, Trade and Industry Award at CEATEC 2026.

The CEATEC AWARD recognizes products, technologies and services that demonstrate outstanding innovation. The METI Minister's Award honors technologies that contribute significantly to the development of the CPS/IoT community and the realization of Society 5.0 by creating new value, addressing social and industrial challenges, and advancing digital transformation.

TDK has successfully demonstrated the world's first direct retinal projection (DRP) display for smart glasses using a meta-optic mirror. The flat mirror incorporates nanoscale reflectors, is approximately 150 nanometers thick, and can be embedded directly into a lens. With visible-light transmittance of approximately 80%, it enables smart glasses with transparency comparable to that of ordinary eyeglass lenses, creating a natural appearance suitable for everyday use.

The current meta-optic mirror supports monochrome operation. TDK aims to demonstrate full-color operation and achieve mass production within the next few years.

In selecting the technology for the award, the judges highly recognized TDK's proprietary nanostructure-control technology, which addresses the aesthetic limitations of conventional direct retinal projection systems. The technology combines a natural appearance for everyday wear with a slim, simplified optical system. It was also praised as an innovative manufacturing breakthrough that could accelerate the practical application of smart glasses and support the creation of a next-generation human-machine interface market.

TDK will continue advancing its meta-optic mirror technology to help transform smart glasses—an application expected to grow as part of the expanding AI ecosystem—and support their wider adoption in society.

Theme and Award

- Theme: Meta-Optic Mirror for Smart Glasses Displays
- Award: METI Minister's Award

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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