

Illuminating Innovation: The 26th China International Optoelectronic Exposition Grandly Open in Shenzhen



The 26th China International Optoelectronic Exposition (CIOE 2025) grandly open its doors on September 10, 2025, in Shenzhen, drawing over 3,800 global enterprises across the optoelectronic spectrum. Eight theme exhibitions cover critical sectors including **information and communication, precision optics, laser manufacturing, infrared and ultraviolet technologies, intelligent sensing, display innovations, AR & VR**—creating a comprehensive ecosystem spanning the entire optoelectronic value chain.

Enhancing the integration of technology with real-world applications, CIOE 2025 features ten theme pavilions showcasing vehicle optical communication, endoscopic imaging, laser medical applications, humanoid robots, and astronomical equipment. This scenario-based approach breaks traditional barriers between technology and application, generating powerful synergies that drive innovation across the global optoelectronic landscape.

Dual Exhibition Synergy Strategy Strengthens Industry Connections



In a strategic move, CIOE 2025 is co-located with the Shenzhen International Semiconductor & IC Exhibition (SEMI-e), creating a massive 300,000-square-meter showcase. This partnership bridges the optoelectronic and semiconductor sectors, reinforcing manufacturing foundations while facilitating efficient exchange between upstream and downstream players. The collaboration accelerates technological breakthroughs and commercial applications in cutting-edge fields such as optical chips, silicon photonics, and optoelectronic integration.

Together, the dual exhibitions connect the entire ecosystem from optical design, materials and equipment to chip manufacturing, packaging and testing, and end applications. This comprehensive approach fosters a resilient industrial community exploring new frontiers in AI, high-speed communication, intelligent vehicles, and advanced manufacturing.

Optical Communication Advances Powering AI Computing and Optoelectronic Integration Development

The surge in AI computing demands has catalyzed rapid developments in optical communication, with accelerated 800G deployment, maturing 1.6T technology, and implementation of LPO/CPO solutions. Industry leaders showcased their technological prowess at **CIOE – Information and Communication Expo: Accelink Technologies** presented their portfolio featuring 1.6T and 800G ecosystems alongside integrated communication-sensing innovations. **Luxshare Technology** demonstrated comprehensive data center interconnection solutions including CPO, 1.6T optical modules, LPO/LRO low-power solution, 1.6T DAC/ACC/AEC and liquid-cooled cold

plate I/O solutions. **Coherent** displayed their full-spectrum high-speed optical modules and integrated C+L DWDM systems, while **PhotonIC Technologies** highlighted high speed optoelectronic integrated chips and systems for data centers, 5G transmission, 3D visions, and machine vision applications. **YOFC** showcased six major themed products and solutions across AI computing, special optical communications, intelligent sensing, industrial lasers, all-optical intelligent vehicles and green lighting under their main booth. Its subsidiaries, including **Everprox Technologies** and **Sunstar Communication**, are also exhibiting simultaneously. Meanwhile, **ASMPT SEMI** explored the convergence of Cloud & Photonics, Sensing & Intelligence, Vision & Drive through their advanced packaging innovations.



Smart Vision Technologies Drive Optical Innovation Across Multi-Sectors

The intelligent vision industry continues to propel optical technology innovation and application expansion. At **CIOE - Precision Optics Expo & Camera Expo**, **Sunny Optics** presented automotive camera modules, AR components, and robotic vision systems, while **Phoenix Optics** showcased their vertically integrated approach spanning precision components to medical endoscope systems. **AAC Optics** displayed over a hundred optical products for smartphones, automobiles, and 3D sensing applications. **GoerTek Optics** exhibited cutting-edge XR solutions including waveguide AR displays and MicroLED optical engines. **JBD** unveiled their "Hummingbird II" color optical engine, while **Hubei New Huaguang** presented specialized glass materials and precision components for various applications.

AI Integration and Technological Breakthroughs Accelerates Laser Industry Intelligent Transformation

The laser industry continues to evolve rapidly through technological innovation and AI integration. At **CIOE - Lasers Technology & Intelligent Manufacturing Expo**, visitors witnessed cutting-edge developments transforming intelligent manufacturing. **Han's Laser** divided their exhibit into two zones, Lasers and Standard Components and Laser Equipment and Solutions, with live demonstrations of precision processing equipment and invited experts to give keynote speeches onsite, achieving a dual empowerment of technology display and in-depth exchange. **Maxphotonics and HR Laser** showcased industrial welding solutions, while **Hymson Laser** highlighted breakthrough technologies for high-end manufacturing. **Everbright** displayed innovations across optical manufacturing, communications, and medicine. **HGLaser** presented integrated smart factory solutions for semiconductor and automotive industries, complemented by **JPT's** "Light+AI" ecosystem combining optical connectivity with AI-enhanced detection.

Infrared Technology Expands into Civilian Applications

Infrared technology is experiencing rapid civilian adoption, characterized by miniaturization and integration detectors, and AI fusion. Leading companies at **CIOE - Infrared Applications Expo** demonstrated significant advances. **Raytron** showcased groundbreaking 8-micron infrared modules for applications from industrial temperature measurement to machine vision. **Guide Infrared** demonstrated specialized thermal imaging solutions while its subsidiary **Guide Sensmart** launched their GIM brand for intelligent manufacturing. **HIKMICRO** displayed a comprehensive portfolio spanning detectors to specialized thermal imagers. **Pixfra Technology** exhibited thermal imaging modules and handheld measurement devices, while **FJR Optoelectronic** impressed with proprietary detectors and high-definition systems. **North Night-Vision** and **DALI TECHNOLOGY** presented specialized solutions spanning core components to end applications.

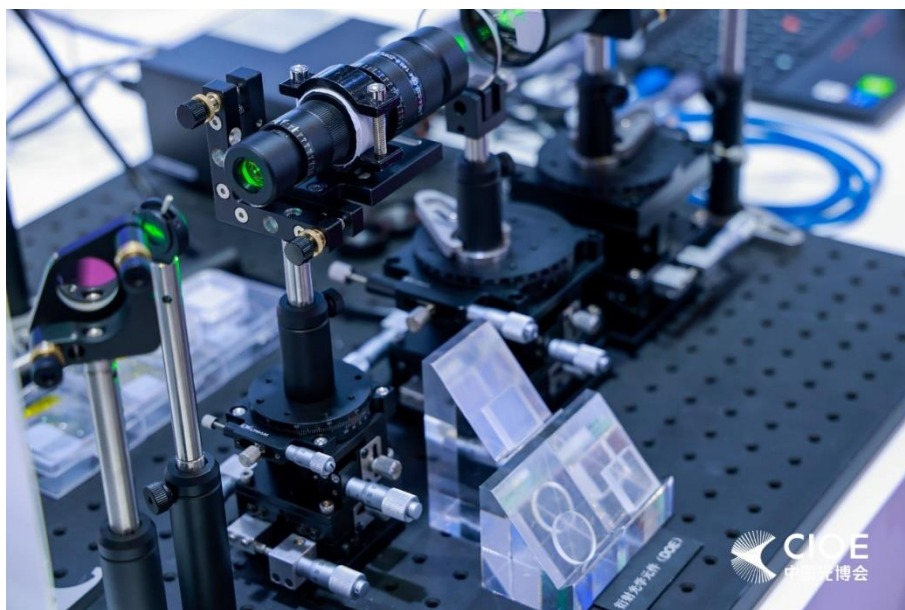
Sensing Technologies Enable Next-Generation Intelligence

Multi-sensor fusion is emerging as a key industry trend. **CIOE - Intelligent Sensing Expo** gathered technology leaders showcasing breakthrough developments. **Ams OSRAM** presented integrated solutions spanning light sources, optical components, and sensors for industrial, medical, wearable and automotive applications. **ToFuture** demonstrated their i-d ToF technology enabling precise environmental perception for embodied intelligence applications, while **Adaps Photonics** showcased advanced dToF sensing chips and system solutions. **visionICs Microelectronics** presented 3D imaging and LiDAR solutions deployed across sweeping robotics, smart glasses, and autonomous driving applications. **KODENSHI** introduced specialized sensors for automotive and industrial applications, highlighting their expertise in niche sensing

domains.

Display Innovations Create New Visual Experiences

The diversification of display technologies is accelerating across applications. At **CIOE - Display Technology Expo**, **Yuehao Electronic** showcased high-generation magnetron sputtering equipment for semiconductor display manufacturing. **SeeYa Technology**, the world's first mass-producer of 12-inch wafer silicon-based OLED micro-displays, presented their OLEDoS displays and optical engines. **SIDTEK**, an early domestic Micro OLED layout enterprise, showcased multi-sized silicon-based OLED screens such as 0.39 inches and 0.68 inches, presenting a cutting-edge visual innovation, while Guochuang Technology showcased advanced inkjet printing equipment for display manufacturing. **NiTE** showcased its self-developed display inkjet printing equipment on site, facilitating an understanding of core technologies and processes. **Innovision Technology** presented the latest developments in Micro-LED chips for micro-displays, while **Guozhao Optoelectronics** demonstrated ultra-bright, low-power silicon-based OLED products alongside compact waveguide modules.



International Forums Shape Industry Direction

Beyond exhibitions, CIOE 2025 also hosts a series of specialized forums bringing together global industry leaders. The **Optoelectronics Global Conference (OGC)**, the top optoelectronics academic conference in Asia, provides support for the development of the industry. **The 2nd Global Photonics Industry Development and Application Forum**, held in collaboration with the **Asia Photonics Expo (APE)**, delved deeply into the global trends and innovative applications of the photonics and semiconductor industry, conducted professional analyses of market dynamics and demand

characteristics in various regions, and grandly released the *2025 Global Photonics Industry White Paper*, offering important reference for the industry's future development and technological innovation. The international conferences, in collaboration with authoritative institutions such as **Yole Group, the European Optoelectronic Industry Association (EPIC), and ePIXfab, the European Silicon Photonics Alliance**, discuss topics such as silicon photonics, infrared imaging, and the dynamics of the optoelectronic market.

Join us on September 10-12 at Shenzhen World Exhibition & Convention Center as CIOE 2025 connects global optoelectronic enterprises with partners across the value chain. Discover cutting-edge innovations, gain market insights, and seize emerging opportunities in this rapidly evolving field!

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