

iMiD 2026

The 26th International Meeting on Information Display
August 18-21, 2026 / BEXCO, BUSAN, KOREA



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Exhibitor Introduction	<p>Sanai System Co., Ltd., founded in 2002, has grown into a leading EDA company in the display industry by developing and providing simulation software for LCD, OLED, touch panels, and AR/VR display design.</p> <p>Over the years, Sanai System's technologies and products have been widely recognized by numerous domestic and international display panel manufacturers, optical film and material suppliers, as well as universities and research institutes. Significant research and development achievements have been realized through the use of Sanai System's software solutions. Even today, our tools are actively utilized across the display industry for design and analysis, contributing substantially to improved productivity and continued technological advancement.</p> <p>Sanai System develops and supplies simulation solutions covering a wide range of physical domains essential to display design, including electrical and electronic characteristics of liquid crystals, mechanical deformation, thermal analysis, liquid crystal behavior, and optical properties.</p> <p>Based on extensive development experience and deep domain expertise, we have successfully localized core EDA technologies, and approximately 40% of our total revenue is generated from overseas markets, demonstrating our</p>	

	<p>globally recognized value.</p> <p>As display technologies for automotive applications and AR/VR continue to evolve at a rapid pace, Sanai System remains committed to continuous innovation and technological exploration. We strive to proactively respond to industry changes and deliver optimal solutions that meet and exceed our customers' needs.</p>
Exhibit Description	<ul style="list-style-type: none">▪ TechWiz LCD<p>This simulation is a specialized solution for the electro-optical characterization of LCD panels. It provides a comprehensive analysis of the polarization properties and diffraction effects inherent in liquid crystal displays, while also predicting integrated color performance.</p><p>Furthermore, it features advanced capabilities for the design and analysis of Polarization Volume Gratings (PVG) and Pancharatnam-Berry (PB) liquid crystal lenses—essential components for next-generation AR/VR optics. This makes it an indispensable tool for everything from conventional display development to the engineering of cutting-edge optical devices.</p>▪ TechWiz OLED<p>This software is a high-performance optical analysis solution designed to calculate the External Quantum Efficiency (EQE) of OLEDs by precisely analyzing the microcavity effects occurring as light is emitted from the Emitting Layer (EML) and propagates through multilayer structures.</p><p>Distinctively, it supports the optical characterization of not only isotropic media but also anisotropic layers, providing simulation results that closely align with the behavior of actual devices. By enabling the prediction of the final panel's color performance, this program serves as an essential tool for optimizing optical structures and achieving high-efficiency OLED designs.</p>▪ TSolidX<p>This specialized modeling solution utilizes layout-based semiconductor stacking process logic to generate high-fidelity 3D structures that maintain strict conformity with actual devices. It enables users to construct precise 3D models rapidly and intuitively without the need for intensive process simulations.</p><p>The resulting structures are highly versatile and optimized for a wide range of applications, including mechanical and optical analysis. By providing a stable and robust 3D structure, this program ensures that users can achieve highly accurate and reliable simulation results.</p>▪ TRCX

	<p>TRCX is a premier simulation solution that leverages distributed computing technology to provide advanced design insights for the capacitance and resistance (RC) of LCD, OLED, and touch panels.</p> <p>Featuring a highly intuitive user interface, TRCX significantly simplifies the complex process of electrode definition. Its proprietary domain decomposition and electrode distribution algorithms ensure rapid and precise analysis, even for large-area displays. Furthermore, TRCX offers a variety of customizable extraction options to minimize computational overhead and maximize analysis efficiency, allowing engineers to achieve optimized design workflows.</p> <p>▪ TDeformX</p> <p>TDeformX is a specialized mechanical analysis solution for the intricate micro-patterned structures of LCD and OLED panels. Beyond analyzing mechanical deformation under external stress, it provides robust simulation for advanced form factors such as foldable, bendable, and stretchable displays.</p> <p>Furthermore, TDeformX enables comprehensive multi-physics analysis by integrating power loss calculations based on applied voltage with thermal conduction and convection modeling. With a dedicated solver optimized specifically for display architectures, TDeformX is the ultimate tool for perfecting next-generation display designs.</p> <p>▪ TVolumeX</p> <p>TVolumeX is a specialized engineering solution designed to precisely calculate the optimal liquid crystal (LC) injection volume based on LCD panel design parameters.</p> <p>It determines the ideal LC volume by comprehensively analyzing the panel size, resolution, design layouts, and Column Spacer (CS) configurations. Beyond simple calculation, TVolumeX predicts potential process defects related to LC volume margins and performs sophisticated analysis on panel deformation under atmospheric pressure, accounting for the incompressible nature of liquid crystals. Through these advanced capabilities, TVolumeX empowers engineers to maximize production yields and ensure the structural integrity of high-quality panel designs.</p>
<p>Exhibit Product</p>	<ul style="list-style-type: none"> ▪ TechWiz LCD: Simulation Software for LCD Display Panels ▪ TechWiz OLED: Simulation Software for OLED Display Panels ▪ TSolidX: 3D Model Generator for CAx format ▪ TRCX: RC Parasitic Extractor ▪ TDeformX: Mechanical, Electrical, Thermal analysis of the Panels. ▪ TVolumeX: Optimal LC Volume Designer