

Sandia National Laboratories selects LayTec's EpiX® mapping station for advanced optical wafer characterization

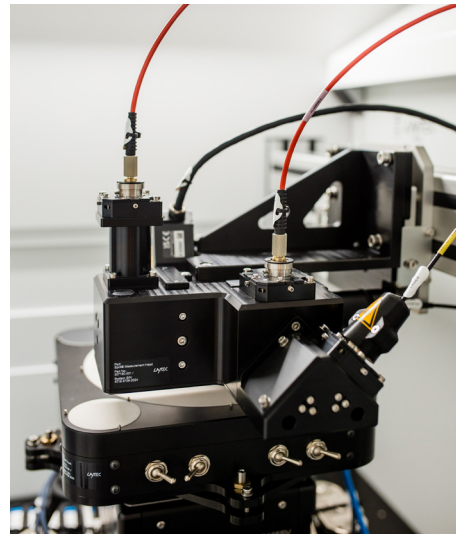
Berlin, Germany – July 1, 2026 – Sandia National Laboratories has purchased a customized manual-loading version of LayTec's EpiX® mapping station, combining white light reflectance (WLR) and photoluminescence (PL) metrology for non-contact optical wafer mapping.

The system comes in a UV-VIS configuration optimized for AlGaN power, RF, and optoelectronic applications, as well as novel materials, supporting Sandia's advanced semiconductor research by providing spatially resolved insight into key wafer properties. EpiX® uniquely enables 2D mapping of parameters such as layer thickness, composition-related optical signatures and luminescence characteristics for high electronic-mobility transistors and other device structures, helping researchers evaluate uniformity across complex semiconductor wafers.

"We are pleased that Sandia has selected LayTec's EpiX® platform for its research environment," says Volker Blank, CEO of LayTec. "The customized configuration reflects exactly what EpiX® was designed for: flexible, high-quality optical wafer characterization for demanding compound semiconductor R&D."



Sample image of a manual EpiX® mapping station



EpiX® XYZ mapping stage and WLR + PL optics

About: LayTec is a Berlin-based company which designs and manufactures integrated in-situ and in-line optical metrology solutions for process control in semiconductor and photovoltaic production. LayTec provides metrology systems for non-destructive monitoring for critical film properties, including thickness, color, band gap, sheet resistance, composition and surface roughness. These systems cover a broad spectrum of deposition and film formation techniques, supporting both academic research and high-volume industrial production. With over 4000 systems installed worldwide, LayTec supports both research and mass production environments and offers a global service network to ensure reliable performance and customer success.

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