## Gocator 5500 Series



Multi-layer phone display inspection and its software output


The Gocator ${ }^{\circledR} 5500$ series adds patented line confocal imaging (LCI) technology to the Gocator ${ }^{\circledR}$ family of 3D smart sensors. These line confocal sensors deliver high speed, wide coverage line scanning with simultaneous generation of 3D topography, 3D tomography, and 2D intensity data. This allows Gocator ${ }^{\circledR} 5500$ s to scan practically any material type-including multi-layered, transparent/translucent, curved edge, shiny/specular, high-contrast textured, mixed, and many more-with submicron precision, and at a level of quality and speed that outperforms competing confocal technologies.

- Simultaneous Generation of Multiple Profiles from MultiLayer Structures
- Generates 1792 Data Points per Profile
- Fast Scan Rates (Over 16 KHz with PC Acceleration)
- Handles Wide Variety of Material Types
- Dual-Axis Optical Design Provides Higher Signal Quality
- Runs LMI's Next Generation Measurement and Inspection Software
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## DUAL-AXIS OPTICAL DESIGN TO DETECT FINER FEATURES

Gocator 5500 Sensors use a dual-axis optical system that improves noise immunity and provides higher signal quality. This makes it possible to scan difficult surfaces and very fine features.

## GENERATES 3D TOMOGRAPHY, 3D TOPOGRAPHY, AND 2D INTENSITY DATA

Gocator ${ }^{\circledR} 5500$ sensors simultaneously generate 3D tomography, 3D topography, and 2D intensity data for each layer of a material, making it possible to measure the thickness of individual layers or detect defects on secondary layers.

## HIGH SPEED. HIGH RESOLUTION

Gocator 5500 sensors feature a custom high-speed imager and high-performance electronics to deliver metrology-grade inspection at over 16 kHz with PC acceleration, with scaling fields of view, X resolutions up to 2.5 microns, and $Z$ repeatability up to 0.05 microns.

## MEASUREMENT AND INSPECTION SOFTWARE INCLUDED

Gocator ${ }^{\circledR} 5500$ sensors are built on LMI's leading smart sensor design architecture that includes an easy-to-use web-based interface with built-in measurement tools, I/O connectivity, and multi-layer profiling support accelerated using a PC.



LMI Technologies has sales offices and distributors worldwide. All contact information is listed at Imi3D.com/contact

