

System Overview

Zygo NewView 5000

Tool Overview:

The Zygo NewView 5000 is a non-contact 3D surface profiler that uses scanning white light interferometry to image and measure the microstructure and topography of surfaces. It provides graphic images and high-resolution numerical analysis to accurately characterize the surface structure of test parts.

Tool Capabilities/Limitations:

- Objectives: 5x, 10x, 50x
- Vertical Resolution: 0.1-20nm (FDA resolution setting dependent)
- Lateral Resolution Range: 0.64 – 2.6 μ m (objective dependent)
- Max Vertical Step Height: 5mm
- Vertical scan rate: $\leq 10\mu$ m/sec
- Sample specifications:
 - Type: opaque and transparent surfaces
 - Max Roughness: $\leq 100\mu$ m Rp
 - Reflectivity: 4-100%
 - Max Sample Thickness: 104mm
 - Note: If your sample has surfaces with dissimilar optical properties, the accuracy of step height measurements from one material to the other may be degraded. The dissimilar optical properties cause relative phase shift error in the measured vertical heights of the dissimilar materials.