



SMARTSCOPE **APEX MICRO**

High-Accuracy Micro-Metrology System

	Travel	mm
Apex Micro	X axis	200
	Y axis	200
	Z axis	100
Extended X (option)	X axis	300
Extended Z (option)	Z axis	150

Unique high-precision system for micro-measurements

If you need the resolution and magnification to image micro-sized details, powerful metrology software capable of full three-dimensional part characterization, and multisensor capabilities, you need SmartScope® Apex Micro from OGP®.

A floor model fixed optics metrology system that features a state-of-the-art digital camera with digital zoom, SmartScope Apex Micro is the preferred measurement solution for high magnification video and micro-multisensing. Its digital zoom offers multiple magnifications, and a wide range of long working distance fixed optical objectives are available. The system's sturdy steel substructure and granite support column enhance measurement stability, while 0.04 μm (0.02 μm optional) XY scales and 0.05 μm Z scale provide the necessary resolution.

Apex Micro is multisensor-ready. Laser or the Rainbow Probe™ scanning white light sensor perform non-contact surface contouring, and a range of touch trigger probes are available for tactile measurement of hard-to-image features. The system may be equipped with the unique Feather Probe™ micro-probe sensor that can acquire data points with only milligrams of probing pressure, and when teamed with an OGP HPR air bearing rotary indexer with 1 arc-second accuracy, a Feather Probe 0.127 mm stylus can measure holes as small as 0.228 mm in diameter. SmartScope Apex features include:

- Standard 2.5x fixed magnification objective lens (5x, 10x, 25x, and 50x replacement lenses are optional).
- High resolution digital camera, precision staging, and 0.04 μm XY scales (0.02 μm optional) for ultra-high accuracy.
- Powerful MeasureMind® 3D MultiSensor metrology software with full 3D functionality.
- Granite base and unique granite column, granite XY stage, and DC servo driven mechanical bearing XYZ stages, offering a structurally and metrologically stable measurement platform.



