

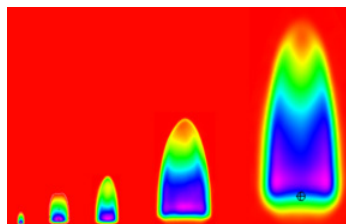
QED Deflectometer for Spots

The QDS is a compact metrology workstation for accurate and cost effective measurement of MRF™ spots in a shop floor environment.



The QDS Advantage

- ◇ Sits next to your Q-flex machine to save time and increase throughput
- ◇ Measures smaller and deeper spots with its higher slope capture range
- ◇ Ensures adequate pixel density on even the smallest spots with its high resolution
- ◇ Quick, simple, reproducible part setup due to its upward looking system with purpose-built part mounting
- ◇ Measures parts of different reflectivity without use of auxiliary components like pellicles
- ◇ Provides a networked solution to initiate measurements from Q-flex and automatically load data from QDS
- ◇ Insensitive to environmental factors such as vibration or air turbulence



**A Better
Way to
Take Spots**

Technical capabilities include:

- ◇ Measurement Capability: Optimized for nominally plano surfaces
- ◇ Slope Capture Range: 4 mrad (performance), up to 7 mrad (maximum)
- ◇ Part Reflectivity: 1% to 100% — no attenuation filter required
- ◇ Acquisition Time: Approximately 30 seconds per single measurement
- ◇ Camera Frame Rate: < 17 frames per second at maximum resolution
- ◇ Focus Range: Fixed focus configuration
- ◇ Part Alignment: None required — integrated holding fixtures ensure precise alignment
- ◇ Reference Optics: Includes 75 mm tenth-wave calibration flat
- ◇ Maximum Workpiece Size: 72 mm diameter
- ◇ Maximum Measurement Range: Supports parts up to 50 mm Φ and 75 mm Φ
- ◇ Mounting Options:
 - ◇ Fixed holder configuration
 - ◇ Direct-on-mount capability
- ◇ Compatible Part Geometries: Circular parts (up to 215 mm Φ) and rectangular parts (up to 215 x 215 mm)