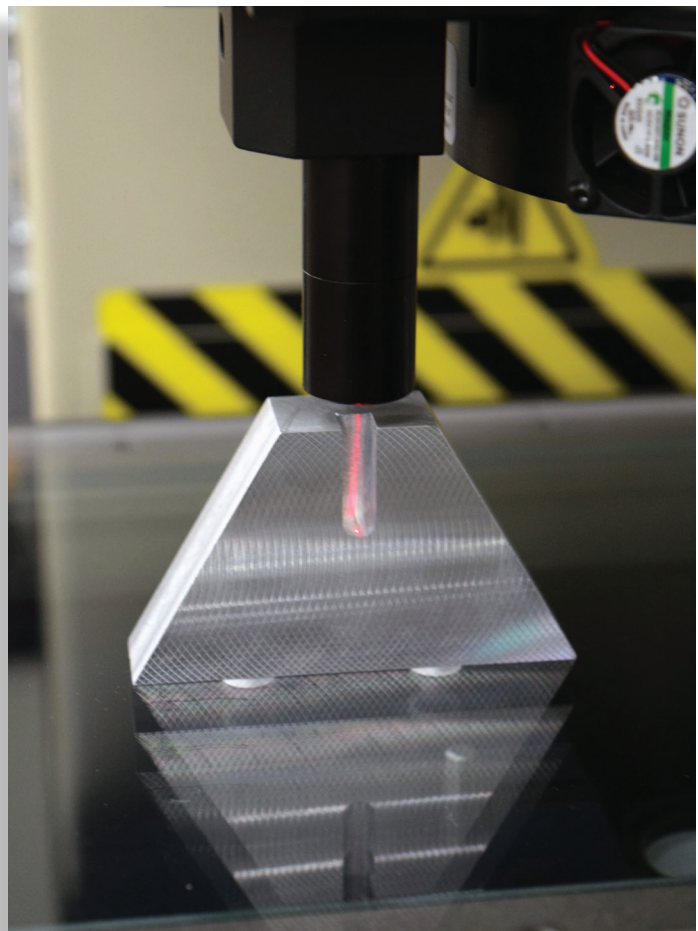


TeleStar® Probe

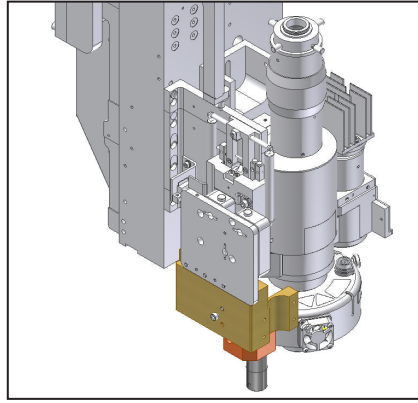
- **Sub-micron resolution** – Resolution $\leq 0.1 \mu\text{m}$, with excellent performance on both specular and diffuse surfaces
- **Fast and accurate** – Speeds up to 500 points/second with $1.0 \mu\text{m}$ accuracy, and internal reference
- **Long working distance** – 25 mm constant working clearance
- **Auto-deployment** – Optional automatic deployment mechanism retracts when not in use

High Resolution Interferometric Profiling Sensor





TeleStar Probe



Integrated on SmartScope ZIP® zoom optics system



Integrated on FlexPoint™ VersaFlex™ Multisensor Cluster

Technical Specifications¹

Available for	Any OGP® SmartScope® SP or ZIP Advance; or FlexPoint™ VersaFlex™ Multisensor Cluster
Probe type	Partial coherence interferometer
Laser class (internal laser pointer)	Class 2
Probe (pen) dimensions	Tube length, 97 mm; diameter, 20 mm
Controller dimensions	85 x 275 x 46 mm
Deployment mechanism	Mechanical, 38 mm deployment range
Working distance	25 mm
Measurement range ²	800 µm
Spot size ³ (nominal-FWHM)	6 µm
Acceptance angle	> 75° from diffuse surface calibration sphere
Resolution ⁴	0.1 µm
Accuracy ⁵	2.0 µm
Repeatability	0.1 µm (1σ)

¹Specifications are nominal for TeleStar lasers installed on QVI systems and used in the specified operating environment.

²Measuring Range is the Z-range over which the performance of the sensor is linear and calibrated. The Measuring Range tracks within the system's Z-axis travel and is surface dependent.

³With spot size at best focus. Spot sizes for this particular laser are the full width of the spot at half maximum value (FWHM).

⁴Using high quality specular (polished glass) surface, 1σ.

⁵Accuracy on horizontal specular surfaces within the measuring range.



Safety Considerations

This system is classified as a Class 2 laser device by IEC 825 (2001). **Do not stare directly into the laser source.**



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