

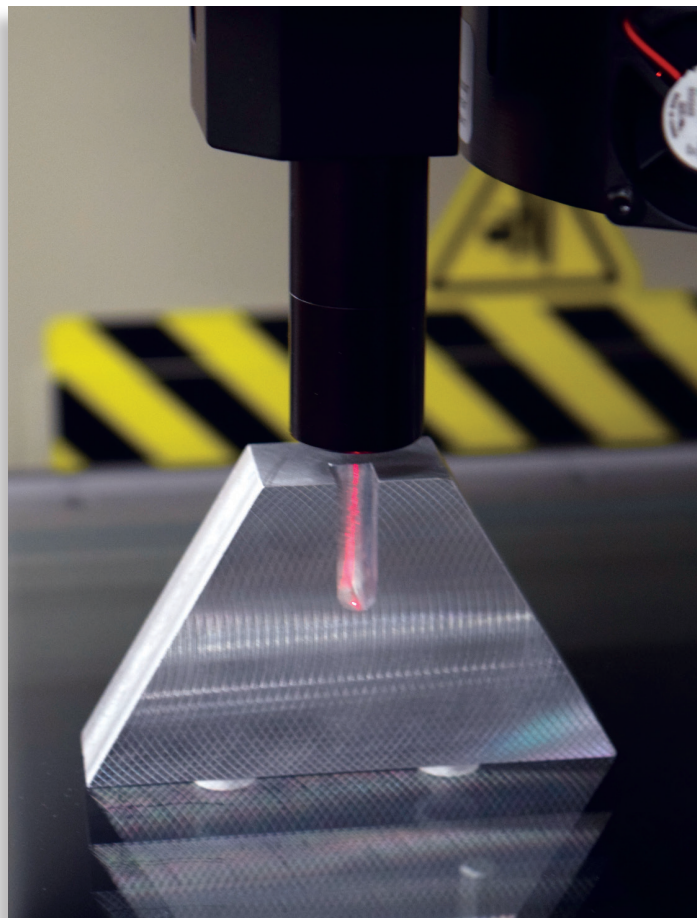


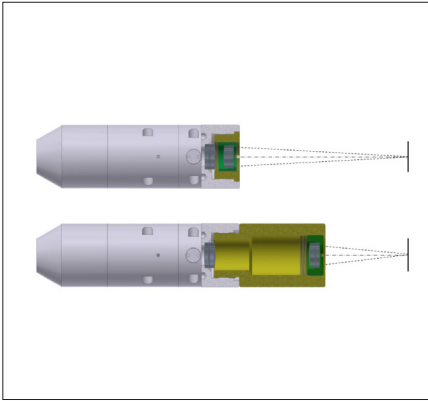
TeleStar® Probe

TeleStar Probe is a self-contained, off-axis, interferometric range sensor for surface contour measurement. TeleStar Probe offers sub-micron resolution, while scanning either specular or diffuse surfaces. Spot size as small as 5 μm for measuring miniature features. The TeleStar Probe offers:

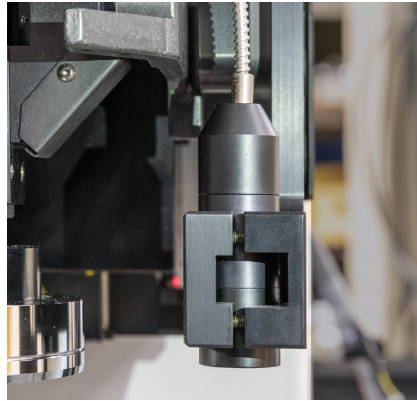
- **Speed, Accuracy and Long Working Distance –**
Speeds up to 500 points/second with very high accuracy, internal reference, and up to 70 mm constant working clearance.
- **Auto Deployment –**
Automatic deployment mechanism retracts when not in use on SmartScope systems.
- **Interchangeable Lenses –**
P-25 probe offers interchangeable objective lenses for different applications.

Off-Axis High Resolution Interferometric Range Sensor





P-25 with interchangeable objectives



P-25-70 integrated on a SmartScope® with fixed mount



TeleStar Probe integrated on FlexPoint® VersaFlex™ Multisensor Array

Technical Specifications

Available for	SmartScope M-Series, ZIP, or FlexPoint systems	
Required Metrology Software	ZONE3®	
Probe Technology	Partial coherence interferometer	
Laser Class (internal laser pointer)	Class 2	
Deployment Mechanism (SmartScope Systems)	Mechanical, 38 mm deployment range	
Probes	P-25-35	P-25-70
Working Distance	35 mm	70 mm
Measuring Range ¹	800 µm	1400 µm
Spot Size ² (nominal-FWHM)	5.0 µm	9.2 µm
Acceptance Angle	> 75° from diffuse surface calibration sphere	
Resolution ³	0.1 µm	
Accuracy ⁴	1.0 µm	
Repeatability ⁴	0.1 µm (1σ)	

¹Measuring Range is the Z-range over which the performance of the sensor is linear and calibrated.

²With spot size at best focus. Spot sizes for this particular laser are the full width of the spot at half maximum value (FWHM).

³Using high quality specular (polished glass) surface, 1σ.

⁴Accuracy/Repeatability of the laser on horizontal specular surfaces within the measuring range. System performance varies with machine type.



Safety Considerations

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



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