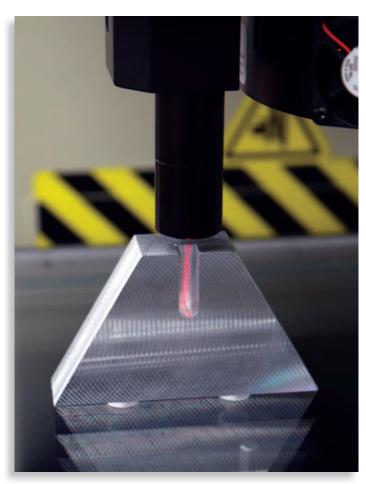


**TeleStar Probe** is a self-contained, off-axis, interferometric range sensor for surface contour measurement. TeleStar Probe offers sub-micron resolution, while scanning either specular or diffuse surfaces. Spot size as small as 5  $\mu$ m for measuring miniature features. The TeleStar Probe offers:

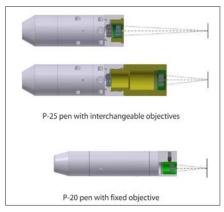
- Speed, Accuracy and Long
  Working Distance –
  Speeds up to 500 points/second
  with very high accuracy, internal
  reference, and up to 70 mm constant
  working clearance.
- Auto Deployment –
   Automatic deployment mechanism retracts when not in use on SmartScope ZIP® systems.
- Interchangeable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

## Off-Axis High Resolution Interferometric Range Sensor

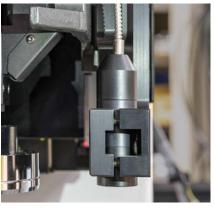


TeleStar P-20 Probe

## TeleStar® Probe



TeleStar Probe



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



P-20 integrated on FlexPoint® VersaFlex™ Multisensor Array

## **Technical Specifications**

Available for	Any SmartScope ZIP, Fusion®, or FlexPoint with a VersaFlex multisensor array		
Required Metrology Software	ZONE3®		
Probe Technology	Partial coherence interferometer		
Laser Class (internal laser pointer)	Class 2		
Deployment Mechanism (SmartScope ZIP Systems)	Mechanical, 38 mm deployment range		
Probes	P-20	P-25-35	P-25-70
Working Distance	25 mm	35 mm	70 mm
Measuring Range <sup>1</sup>	800 μm	800 µm	1400 µm
Spot Size² (nominal-FWHM)	5.8 µm	5.0 μm	9.2 µm
Acceptance Angle	> 75° from diffuse surface calibration sphere		
Resolution <sup>3</sup>	0.1 μm		
Accuracy <sup>4</sup>	1.0 µm		
Repeatability <sup>4</sup>	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).

<sup>&</sup>lt;sup>4</sup>Accuracy/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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<sup>&</sup>lt;sup>4</sup>With spot size at best focus. Spot sizes for this particular laser are the full width of the spot at half maximum value (FWHM). <sup>3</sup>Using high quality specular (polished glass) surface, 1σ.