SAZ V8.0 Dual Wavelength Static Attitude Measurement Probe

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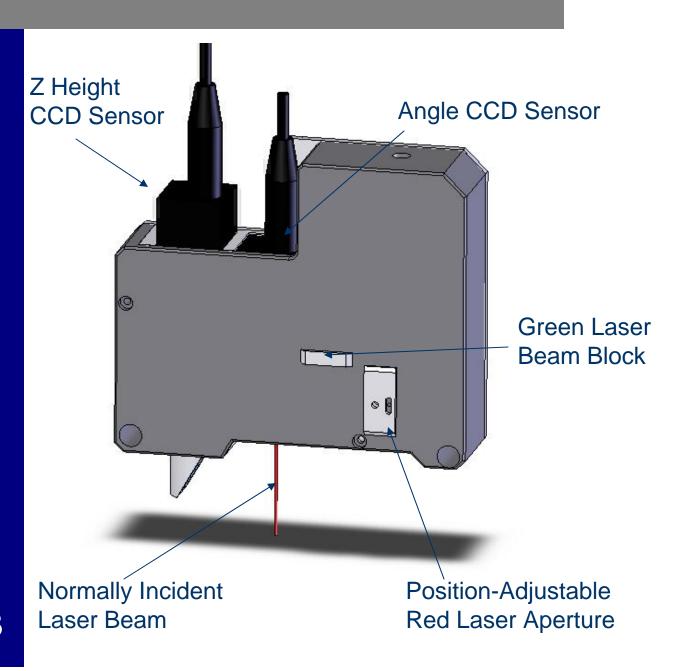


SAZ V8.0 Overview

- Independent Angle and Z lasers
 - eliminates unwanted tradeoffs
 - User selectable angle spot size
 - Spots are easily positioned relative to one another
- Lasers are normally incident to substrate
- Improved Signal / Noise for Angle measurement
- Direct replacement for Veeco SAT probes
 - Replacement SATIS software option available.



SAZ V8.0 Features





Preliminary Performance Specifications

	PSA	RSA	Z Height
Sensor Technology	½" CCD		½" CCD
Laser Wavelength / Power	635 nm / < 1mW		532 nm / 1mW
Measurement Range ¹	7.5°	5.5°	±2mm
Resolution (n=1)	0.0003°		0.10 µm
Resolution (n=5)	NA		0.06 μm
RMS Repeatability	0.0003°		0.10 µm
Linearity ⁴	1.5% / 4° range		TBD
Spot Size ²	0.1-1mm		~50µm
Measurement Speed ³	35 msec		35 msec

- 1. Actual usable measurement range. Sensor range is 10% larger.
- 2. User selectable aperture for angle measurement laser.
- 3. PSA / RSA measurements are simultaneous. HS (High Speed) option available to simultaneously acquire PSA, RSA, and Z-height.
- 4. Uncompensated linearity. LUT or Empirical compensation can reduce angular linearity to < 0.50%.



V8 Mounting Diagram

