

# **SAZ V9.0 Dual Wavelength Static Attitude Measurement Probe**

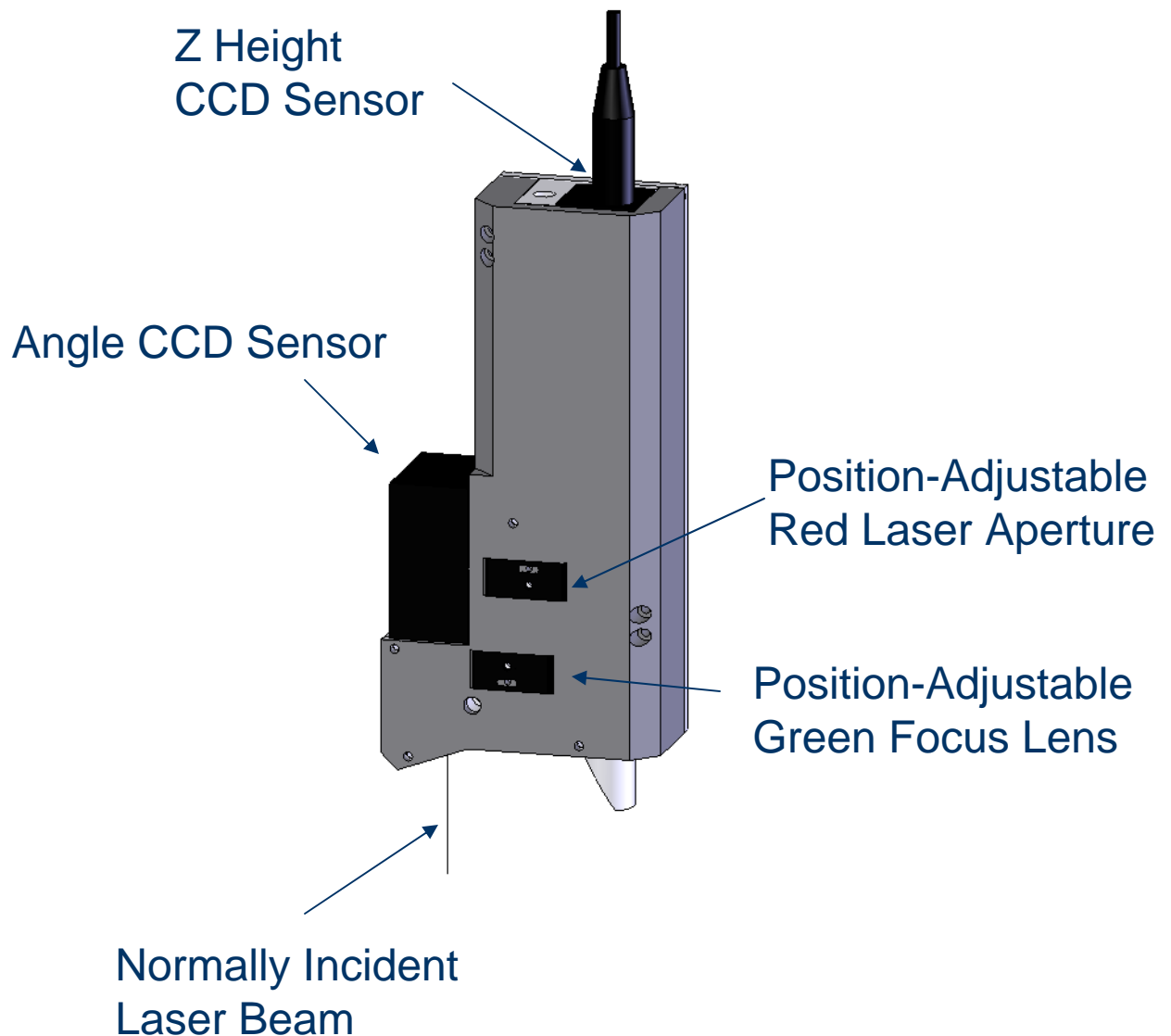
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## SAZ V9.0 Overview

- 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 the AKI V6 Probes

# SAZ V9.0 Features





# Preliminary Performance Specifications

	PSA	RSA	Z Height
Sensor Technology	1/2" CCD		1/2" CCD
Laser Wavelength / Power	635 nm / < 1mW		532 nm / 1mW
Measurement Range <sup>1</sup>	9.6°	7.2°	±2mm
Resolution (n=1)	0.0003°		0.10 µm
Resolution (n=5)	NA		0.06 µm
RMS Repeatability	0.0003°		0.10 µm
Linearity <sup>4</sup>	1.5% / 4° range		TBD
Spot Size <sup>2</sup>	0.1-1mm		~50µm
Measurement Speed <sup>3</sup>	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%.

# V9 Mounting Diagram

