



Lazer 200 – An innovative noncontact measuring system that uses laser scanning for surface topography measurements. The Digital Range Sensor (DRS[™]) laser delivers high quality non-contact laser scans of critical part surfaces. Lazer 200 features:

- Innovative Elevating Bridge
 Design –
 Provides for a large working area
 in a compact unit.
- **Z-axis Tracking** Keeps the DRS laser within its capture range throughout the scan.
- Integral On-axis Video Imaging Used to locate the part, set datums, and choose laser scan start and stop points.

Compact Benchtop Non-contact Laser Metrology System





Shown with DRS-500 Laser Sensor.





ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems, providing faster, easier, and more productive measurements.





System Weight: 100 kg Shipping Weight: 150 kg

	Standard	Optional
XYZ Travel	200 x 200 x 100 mm	
XYZ Scale Resolution	0.5 µm	0.1 µm
Drive System	DC servo with 3-axis control (X, Y, Z); with multifunction handheld controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 16 kg recommended max payload.	
Rotary Axis		Miniature Servo Rotary (MSR [™])
Optics	Fixed objective lens	
Illumination	Linear white LED surface, LED substage	
DRS [™] Sensor	DRS-500 (Red Laser)	DRS-500B (Blue Laser)
Type Of Surface	Specular or diffuse reflective surfaces	Best for translucent or white parts
Working Distance ¹	17 mm	
Measuring Range ²	500 µm	
Spot Size ³ (nominal)	16 x 23 µm	13 x 20 μm
Resolution ^₄	0.125 µm	
Triangulation Angle	70°	
Software	ZONE3 Express metrology software QVI® Portal	Metrology software: ZONE3 Prime, ZONE3 Pro Productivity software: SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: ZONE3
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports	
Controller Options		24" flat panel LCD monitor; or dual 24" flat panel LCD monitors Keyboard, 3-button mouse (or user supplied)
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 900 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 0.5 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
Z Linear Accuracy, Laser	E ₁ = (1.5 + 5L/1000) μm	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. 'Distance in Z from the lowest point on the DRS laser to the middle of the measuring range. "Measuring Range is the Z-range over which the performance of the sensor is linear and calibrated.

³With spot size at best focus. ⁴Using high quality specular (polished glass) surface, 1σ.



Safety Considerations

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



World Headquarters: Rochester, NY, USA • 585.544.0400 • www.ogpnet.com OGP Shanghai Co, Ltd: Shanghai, China 86.21.5045.8383/8989 • www.smartscope.com.cn OGP Messtechnik GmbH: Hofheim-Wallau, Germany 49.6122.9968.0 • www.ogpmesstechnik.de Optical Gaging (S) Pte Ltd: Singapore • 65.6741.8880 • www.smartscope.com.sg