

**Lazer 200**

**Lazer 200** – An innovative non-contact 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.

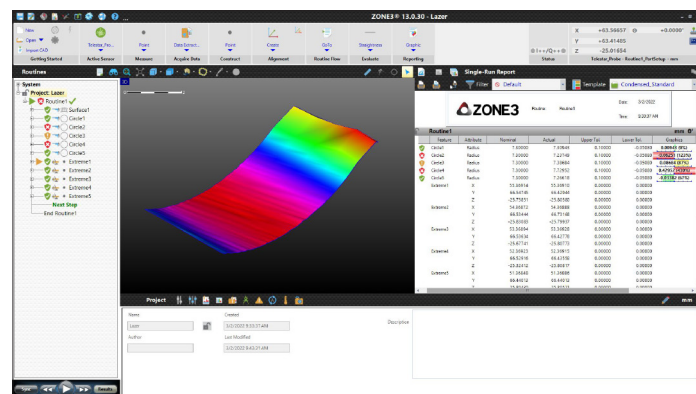
## Compact Benchtop Non-contact Laser Metrology System



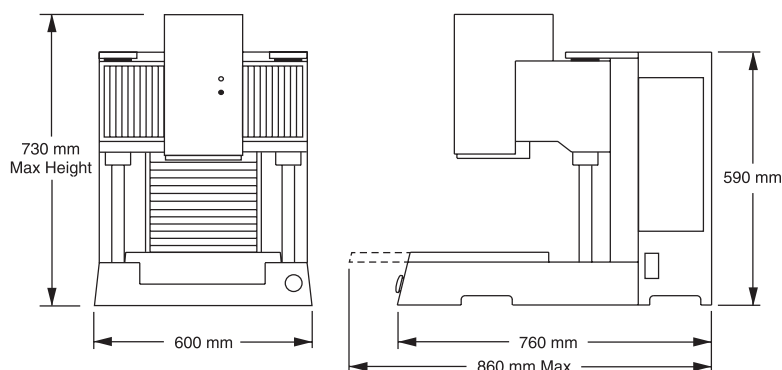
Shown with DRS-500 Laser Sensor.



# Lazer 200



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
<b>XYZ Travel</b>	200 x 200 x 100 mm	
<b>XYZ Scale Resolution</b>	0.5 µm	0.1 µm
<b>Drive System</b>	DC servo with 3-axis control (X, Y, Z); with multifunction handheld controller	
<b>Worktable</b>	Hardcoat anodized, with fixture holes, removable stage glass, 16 kg recommended max payload.	
<b>Rotary Axis</b>		Miniature Servo Rotary (MSR™)
<b>Optics</b>	Fixed objective lens	
<b>Illumination</b>	Linear white LED surface, LED substage	
<b>DRS™ Sensor</b>	<b>DRS-500 (Red Laser)</b>	<b>DRS-500B (Blue Laser)</b>
Type Of Surface	Specular or diffuse reflective surfaces	Best for translucent or white parts
Working Distance <sup>1</sup>	17 mm	
Measuring Range <sup>2</sup>	500 µm	
Spot Size <sup>3</sup> (nominal)	16 x 23 µm	13 x 20 µm
Resolution <sup>4</sup>	0.125 µm	
Triangulation Angle	70°	
<b>Software</b>	<ul style="list-style-type: none"> <li>• ZONE3 Express metrology software</li> <li>• QVI® Portal</li> </ul>	<b>Metrology software:</b> ZONE3 Prime, ZONE3 Pro <b>Productivity software:</b> MeasureFit® Plus, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) <b>Offline software:</b> ZONE3
<b>System Controller</b>	Windows® based, with up-to-date processor and onboard networking/communication ports	
<b>Controller Options</b>		24" flat panel LCD monitor; or dual 24" flat panel LCD monitors Keyboard, 3-button mouse (or user supplied)
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 500 W	
<b>Safe Operating Environment</b>	15-30 °C, non-condensing	
<b>Rated Environment</b>	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>Z Linear Accuracy, Laser</b>	$E_1 = (1.5 + 5L/1000) \mu m$	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment.

<sup>1</sup>Distance in Z from the lowest point on the DRS laser to the middle of the measuring range.

<sup>2</sup>Measuring Range is the Z-range over which the performance of the sensor is linear and calibrated.

<sup>3</sup>With spot size at best focus.

<sup>4</sup>Using 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.**



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