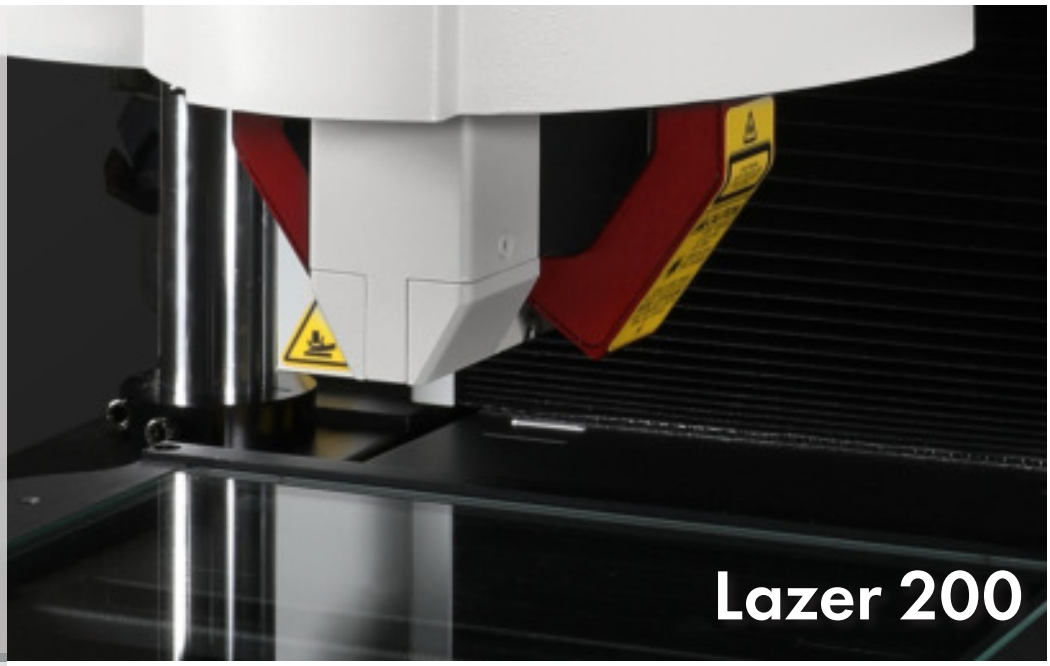


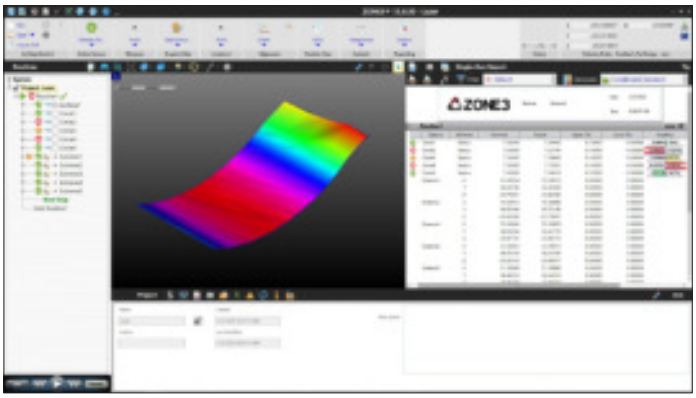
Lazer 200 – An innovative non-contact measuring system that uses laser scanning for surface topography measurements. The Digital Range Sensor (DRS™) laser delivers high quality non-contact laser scans of critical part surfaces. Lazer 200 features:

- **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.

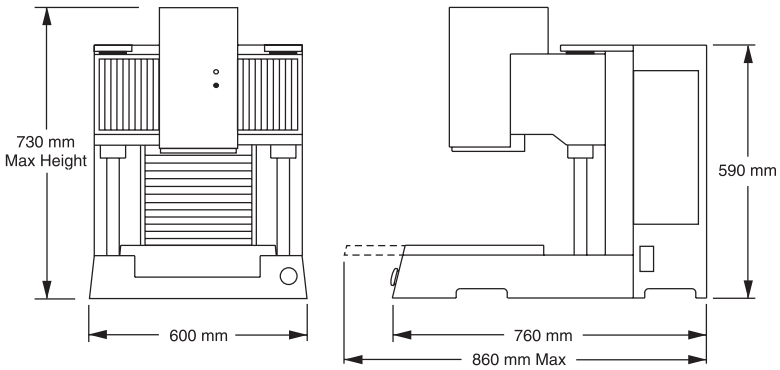
Compact Benchtop Non-contact Laser Metrology System

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
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:** MeasureFit® Plus, 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, 500 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	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	
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.
[1]Distance in Z from the lowest point on the DRS laser to the middle of the measuring range.
[2]Measuring Range is the Z-range over which the performance of the sensor is linear and calibrated.
[3]With spot size at best focus.
[4]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.**

Confidence. When Results Matter.™

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