

**Telecentric large field optics –**  
Dual optical paths — low mag with 100 mm viewing area and high mag for small feature measurement and autofocus, fully telecentric for image accuracy

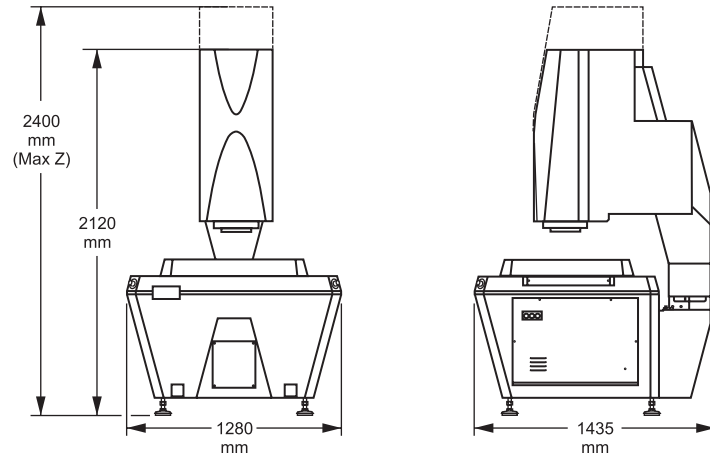
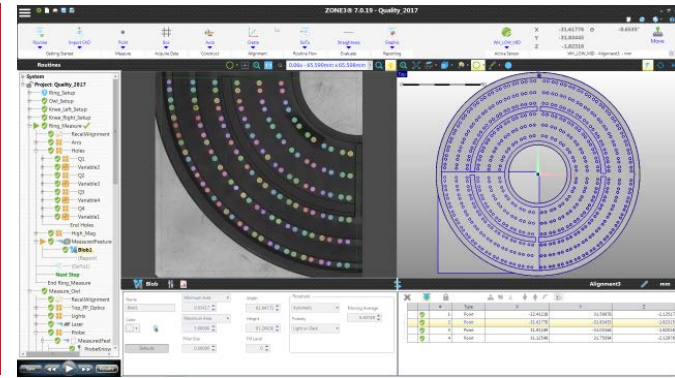
**Multisensor versatility –**  
Optional touch probe, TeleStar® TTL laser, micro-probe, continuous contact scanning probe, and 4<sup>th</sup> and 5<sup>th</sup> axis rotary indexers

**ZONE3® productivity –**  
CAD-based metrology software, with integral AutoID and AutoMeasure functions, ideal for large field of view (LFOV) optics

Axis	Travel (mm)	Measuring Range (mm)
X axis	350	400
Y axis	250	300
Z axis	250	250

## Innovative Large Field-of-View (LFOV) Multisensor Measuring System





Machine Weight: 2100 kg

## Standard Metrology Software

- ZONE3® Express 3D Metrology Software

## Optional Metrology Software

- ZONE3 Prime
- ZONE3 Pro
- ZONE3 Offline
- SmartProfile
- E-SPC

<b>Optics</b>	<b>Low Mag</b>	<b>High Mag</b>
<b>Camera</b>	4-megapixel, digital monochrome	5-megapixel, digital monochrome
<b>Field of view</b>	100 mm, diagonal	20 mm, diagonal
<b>Depth of field</b>	75 mm	2 mm
<b>Working distance</b>	185 mm	185 mm
<b>Accessories</b>		LED Grid Illuminator for focus contrast (optional, for high mag only)
<b>Transport</b>	<b>Standard</b>	<b>Optional</b>
<b>XYZ travel range</b>	350 x 250 x 250 mm	
<b>XYZ measuring range (maximum)</b>	Low Magnification: 400 x 300 x 250 mm High Magnification: 350 x 250 x 250 mm	
<b>XYZ scale resolution</b>	0.1 µm	0.05 µm zero expansion
<b>Drive system</b>	XY: High helix ball-screw DC servo; Z: DC servo with pneumatic counterbalance	
<b>Worktable</b>	Electroless nickel-plated steel, with fixture holes, removable stage glass	
<b>Max recommended payload</b>	30 kg	
<b>Max XY velocity</b>	400 mm/sec	
<b>Max XY acceleration</b>	1000 mm/sec <sup>2</sup>	
<b>Illumination</b>	<b>Standard</b>	
<b>Profile</b>	Collimated, full field, LED	
<b>Surface</b>	Square-on internal	
<b>Oblique surface</b>	Oblique ring light with 8 programmable segments	
<b>Sensors</b>	<b>Standard</b>	<b>Optional</b>
<b>Deployment mechanism</b>	On-axis, air-actuated rotational deployment mechanism (RDM)	
<b>Optical</b>		Deployable RP-1500 Rainbow Probe™ Deployable TeleStar Probe laser
<b>Tactile</b>	Touch probe adapter package	Touch probe, TP20, TP200 Scanning probe, SP25 Feather Probe™
<b>Laser</b>	Laser Range Finder system for optimal Z-focus positioning	TeleStar® interferometric TTL laser
<b>Controller</b>	Windows® based, with up-to-date processor and networking/communication ports	
<b>Controller accessory package</b>	24" flat panel LCD monitor, keyboard, 3-button mouse, ergonomic sit/stand operator workstation	Dual 24" flat panel LCD monitors
<b>Software</b>	<b>QVI Portal, including:</b> • ZONE3® Express Metrology Software • Portal Navigator • Independent Calibration Engine (ICE) • Multimedia Content Viewer • SmartLink™	<b>Metrology software:</b> ZONE3 Prime, Pro, or Offline <b>Productivity software:</b> MeasureFit® Plus, SmartFit® 3D, SmartProfile®
<b>Power requirements</b>	100-120 or 200-240 VAC, 50/60 Hz, 1 phase, 1000 W	
<b>Compressed air requirements</b>	Air supply rate: minimum 7.5 liters/min @ 0.55 Mpa (0.27 ft <sup>3</sup> /min @ 80 psi)	
<b>Rated environment</b>	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>Operating environment, safe operation</b>	15-30° C	
<b>XY area accuracy<sup>1</sup></b>	$E_z = (1.8 + 4L/1000) \mu\text{m}^{2,3,4}$	
<b>Z linear accuracy<sup>1</sup></b>		$E_z = (2.0 + 5L/1000) \mu\text{m}^4$ (with optional touch probe or TeleStar TTL laser)

<sup>1</sup>Where L = measuring length in mm. Applies to thermally stable system in rated environment. Maximum rate of temperature change: 1° C/hour. Maximum vertical temperature gradient: 1° C/meter. All optical accuracy specifications at maximum magnification. <sup>2</sup>With evenly distributed load up to 10 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. <sup>3</sup>Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. <sup>4</sup>E<sub>z</sub>, Z axis linear, and E<sub>z</sub>, XY area accuracy standards are described in QVI Publication Number 790762.



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