



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

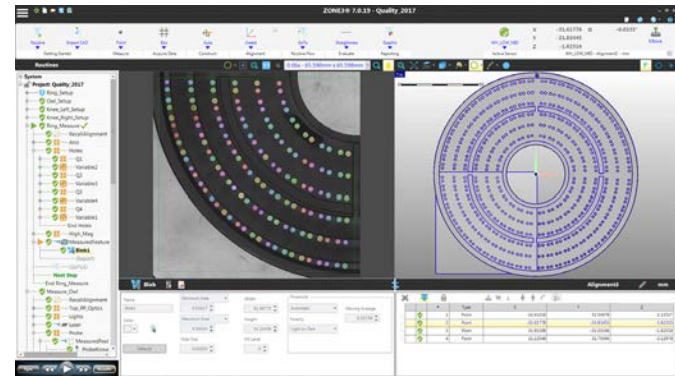
Multisensor versatility –
Optional touch probe, TeleStar® Plus TTL laser, Rainbow Probe™, continuous contact scanning probe, and 4th and 5th axis rotary indexers

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

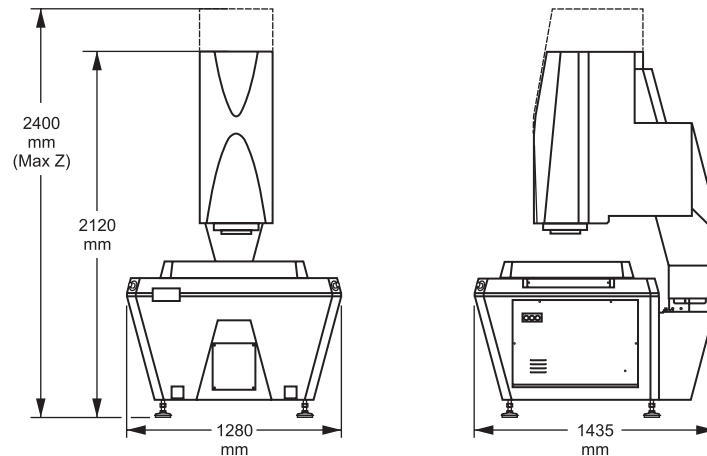
Innovative Large Field-of-View (LFOV) Multisensor Measuring System



Shown with optional MTR rotary



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



Machine Weight: 2100 kg
Shipping Weight: 2325 kg

Optics	Low Mag	High Mag
Camera	4-megapixel, digital monochrome	5-megapixel, digital monochrome
Field of view	70 x 70 mm	14 x 14 mm
Depth of field	75 mm	2 mm
Working distance	185 mm	185 mm
Accessories	Laser Range Finder system for optimal Z-focus positioning	LED Grid Illuminator for focus contrast (optional, for high mag only)

System	Standard	Optional
XYZ Travel Range	350 x 250 x 250 mm	
XYZ Measuring Range (maximum)	Low Magnification: 400 x 300 x 250 mm High Magnification: 340 x 240 x 250 mm	
XYZ Scale Resolution	0.1 µm	0.05 µm
Drive System	XY: DC servo; Z: DC servo with pneumatic counterbalance	
Worktable	Granite surface plate, with fixture holes, and removable stage glass, 30 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR™), MicroTheta Rotary (MTR™), Heavy Duty Rotary (HDR), High Precision Rotary (HPR™), Dual Rotary
Transport Velocity / Acceleration (max)	Velocity: XY Vector = 400 mm/sec, Acceleration: XY Vector = 1000 mm/sec ²	
Illumination	All LED substage profile, coaxial surface, and programmable ring light with 2 rings and 8 sectors	
Sensor Deployment Mechanism	On-axis, air-actuated rotational deployment mechanism (RDM)	
Deployable Non-Contact Sensors		RP-1500 Rainbow Probe™ TeleStar Probe laser
Deployable Tactile Sensors		TP20 or TP200 touch probe SP25 scanning probe
Through-the-Lens Lasers		TeleStar® Plus interferometric TTL laser
Controller	Windows® based, with up-to-date processor and networking/communication ports	
Controller Accessory Package	24" flat panel LCD monitor, keyboard, 3-button mouse, ergonomic sit/stand operator workstation	Dual 24" flat panel LCD monitors
Software	<ul style="list-style-type: none"> • ZONE3® Express 3D Metrology Software • QVI Portal 	Metrology Software: ZONE3 Prime, ZONE3 Pro Productivity Software: MeasureFit® Plus, SmartFit® 3D, OGP® EVOLVE® Suite (Design, OGP EVOLVE SPC, Manufacturing, SmartProfile®) Offline Software: ZONE3
Power Requirements	100-120 or 200-240 VAC, 50/60 Hz, 1 phase, 1000 W	
Compressed Air Requirements	Air supply rate: minimum 7.5 liters/min @ 0.55 Mpa (0.27 ft ³ /min @ 80 psi)	
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	
XY Area Accuracy	$E_2 = (1.8 + 4L/1000) \mu\text{m}$	
Z Linear Accuracy		$E_z = (2.0 + 5L/1000) \mu\text{m}$ (requires optional touch probe or TeleStar Plus TTL laser)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specification apply within the rated environment. Accuracy specifications are verified with the imaging sensor unless otherwise specified. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 10 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard.



Optical Gaging Products, a division of Quality Vision International
 850 Hudson Avenue • Rochester, NY 14621 • USA
 Phone: (585) 544-0400 • (800) 647-4243 • Fax: (585) 544-8092
 info@ogpnet.com
 www.ogpnet.com