



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® Probe and TeleStar Plus TTL lasers, 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

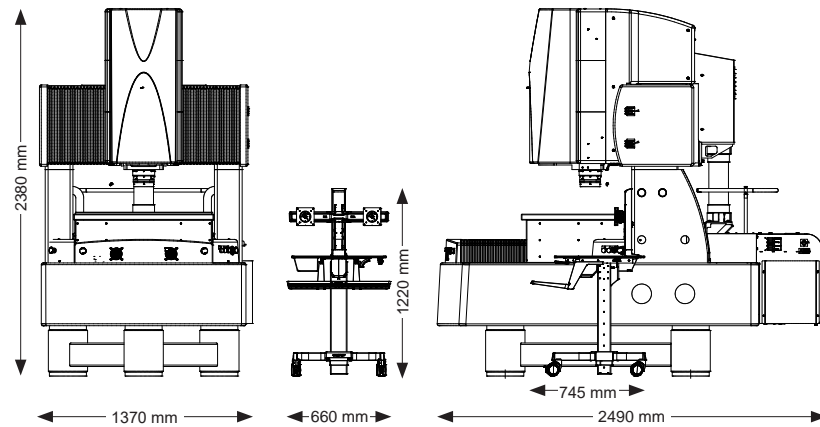
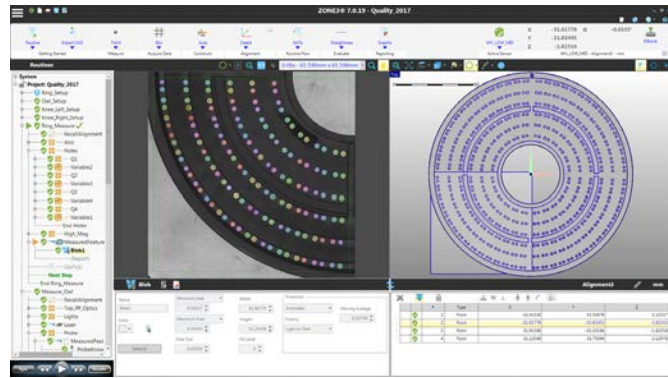
Axis	Travel (mm)
X axis	540
Y axis	500
Z axis	300

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



Shown with optional scanning probe

Fusion™ 600



Standard Software

- ZONE3® Express 3D Metrology Software
- QVI Portal

Optional Software

- ZONE3 Prime
- ZONE3 Pro
- ZONE3 Offline
- SmartProfile
- EVOLVE SPC

System Weight: 4910 kg
Shipping Weight: 6100 kg

Optics	Low Mag	High Mag
Camera	4-megapixel, digital monochrome	5-megapixel, digital monochrome
Field of View	100 mm, diagonal	20 mm, diagonal
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	540 x 500 x 300 mm	
XYZ Measuring Range (maximum)	Low Magnification: 600 x 560 x 300 mm High Magnification: 540 x 500 x 300 mm	
XYZ Scale Resolution	0.1 µm	0.05 µm
Drive System	XY: Liquid cooled linear motor; Z: DC servo with pneumatic counterbalance	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass	
Max Recommended Payload	100 kg	
Max XY Velocity	300 mm/sec	
Max XY Acceleration	500 mm/sec ²	
Profile Illumination	Collimated, full field, LED	
Surface Illumination	Square-on internal	
Oblique Surface Illumination	Oblique ring light with 8 programmable segments	
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 	<ul style="list-style-type: none"> • ZONE3 Prime • ZONE3 Pro • ZONE3 Offline • SmartProfile • EVOLVE SPC
Power Requirements	200 - 240 VAC, 50/60 Hz, 1 phase, 1550 W	
Compressed Air Requirements	Air supply pressure: 0.6 - 1.0 MPa; Minimum flow capacity: 7.5 NI/min; Air quality ISO 8573-1:2010 Class 4.3.4 or better	
Operating Environment, Safe Operation	15-30° C	
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	$E_1 = (3.5 + 4L/1000) \mu\text{m}$	$E_1 = (2.0 + 5L/1000) \mu\text{m}$ (with optional touch probe or TeleStar 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.



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