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

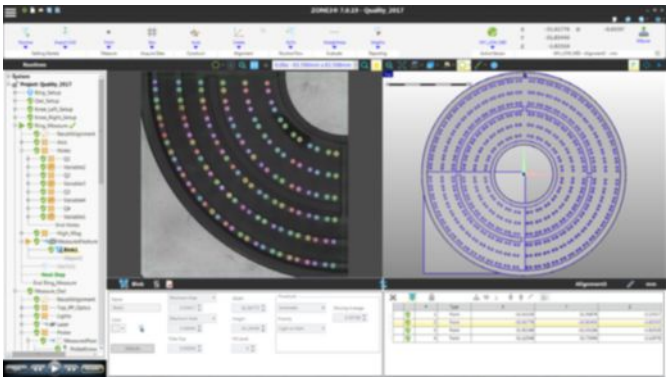
Multisensor versatility – Optional touch probe, TeleStar TTL laser, micro-probe, continuous contact scanning probe, and 4th and 5th axis rotary indexers

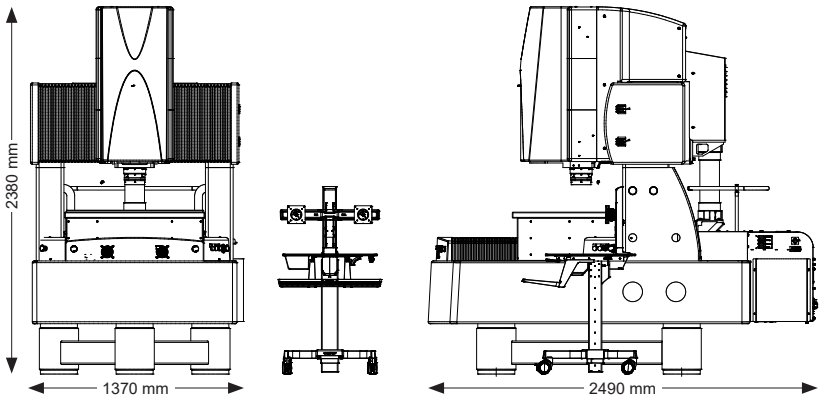
ZONE3 productivity – CAD-based metrology software, with integral AutoID and FeatureExtractor functions, ideal for large field of view (LFOV) optics

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

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

Fusion 600





Standard Metrology Software

- ZONE3 Express 3D Metrology Software
- QVI Portal

Optional Metrology Software

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

System Weight: 4910 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		LED Grid Illuminator for focus contrast (optional, for high mag only)

Transport	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 zero expansion
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	

Illumination	Standard	
Profile	Collimated, full field, LED	
Surface	Square-on internal	
Oblique surface	Oblique ring light with 8 programmable segments	

Sensors	Standard	Optional
Deployment mechanism	On-axis, air-actuated rotational deployment mechanism (RDM)	
Non-Contact		Deployable RP-1500 Rainbow Probe Deployable TeleStar Probe laser
Tactile	Touch probe adapter package	Touch probe, TP20, TP200 Scanning probe, SP25
Laser	Laser Range Finder system for optimal Z-focus positioning	TeleStar 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	ZONE3 Express 3D Metrology Software • QVI Portal	• 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 Nl/min; Air quality ISO 8573-1:2010 Class 4.3.4 or better	
Rated environment	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
Operating environment, safe operation	15-30° C	
XY area accuracy[1]	E_2 = (1.8 + 4L/1000) µm	
Z linear accuracy[1]	E_1 = (3.5 + 4L/1000) µm	E_1 = (2.0 + 5L/1000) µm (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. 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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