

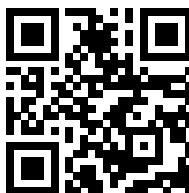


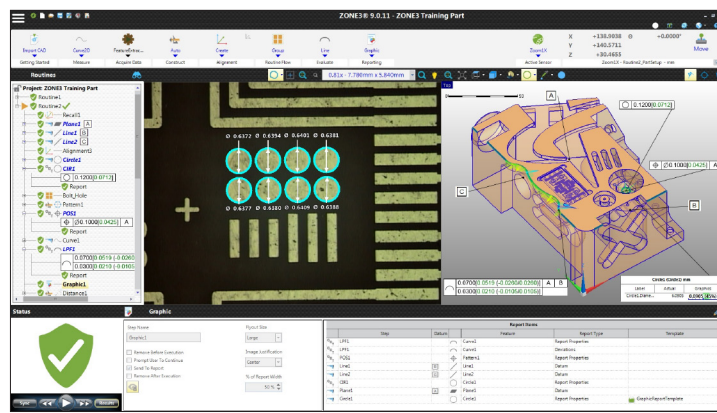
SmartScope® Flash™ 1500|1550|1552

SmartScope Flash 1500|1550|1552 – Flash 1500 series multisensor systems feature a large XY travel with a massive granite base and moving bridge design where the part remains stationary. Measurement range accommodates large parts, such as LCDs, displays, circuit boards, and multi-component fixtures. Flash 1500 series offers:

- **Precision Optics** – High quality AccuCentric® zoom lens automatically compensates magnification for each zoom position.
- **Flexible Illumination** – Standard profile light, coaxial surface light, and SmartRing™ light illuminate parts from all angles.
- **Multisensor Versatility** – Optional touch probe, laser, Rainbow Probe™, and rotary indexers.

Extra-Large XY-Travel Multisensor Dimensional Measuring System

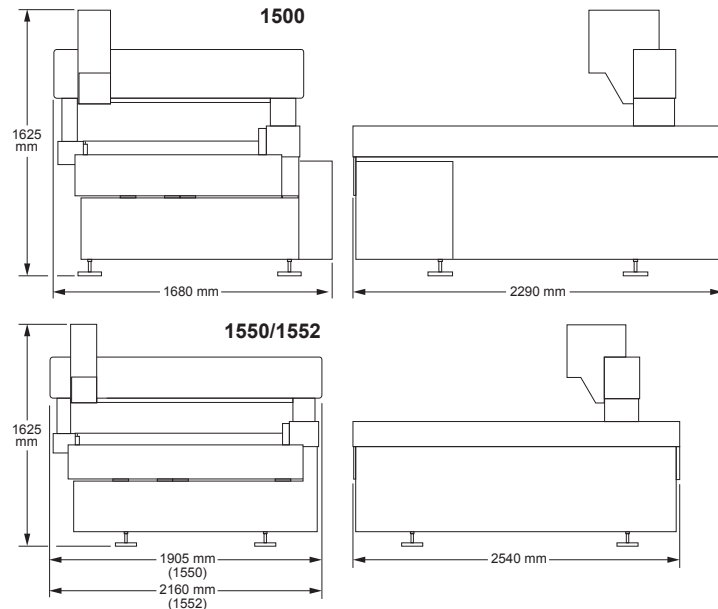




ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems, providing faster, easier, and more productive measurements.

SmartScope® Flash™

1500 | 1550 | 1552



Flash 1500
System Weight: 2590 kg
Shipping Weight: 3000 kg

Flash 1550
System Weight: 5460 kg
Shipping Weight: 6260 kg

Flash 1552
System Weight: 6380 kg
Shipping Weight: 7280 kg

	Standard	Optional
XYZ Travel	1500: 900 x 1500 x 200 mm 1550: 1250 x 1500 x 200 mm 1552: 1500 x 1500 x 200 mm	
XYZ Scale Resolution	0.1 µm, including dual Y-axis scales	
Drive System	DC servo with 4-axis control (X, Y, Z, zoom); with multifunction handheld controller	
Worktable	Anodized, with fixture holes, removable stage glass, 100 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR™), MicroTheta Rotary (MTR™)
Optics*	AccuCentric® auto-compensating zoom, motorized; 1.0x lens	Focus Grid Projector: LED Source Laser Adapter: Allows for field retrofit of TTL Laser. Includes Laser Pointer Replacement Lenses: 2.5x, 5.0x Laser Lenses: 2.0x (Included with TTL Laser), 5.0x Lens Attachments for 1.0x Lens: 0.5x, 0.75x, 1.5x, 2.0x
Illumination	Substage LED profile, coaxial LED surface, SmartRing LED ring light (white)	Red, Green, or Blue SmartRing; Flexible SmartRing for 0.5x lens attachment
Metrology Camera	Color metrology camera	Monochrome metrology camera
Field of View**	8.0 mm x 6.0 mm (low zoom) to 0.90 mm x 0.68 mm (high zoom)	14.6 mm x 10.9 mm (1.0x lens, 0.5x attachment) to 0.19mm x 0.14 mm (5.0x lens)
Working Distance	64 mm	Up to 97 mm (1.0x lens, 0.5x attachment)
Sensor Options***		Tactile: TP20 or TP200 Touch Probe Non-Contact: Through-the-Lens (TTL) Laser, DRS Laser, Rainbow Probe
Software	• ZONE3 Express or Measure-X metrology software • QVI® Portal	Metrology software: ZONE3 Prime, ZONE3 Pro Productivity software: Measure-X® Analyze, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: ZONE3, Measure-X
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports	
Controller Options	Ergonomic sit/stand operator workstation	24" flat panel, 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, 700 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	
XY Area Accuracy	Flash 1500 1550: $E_z = (5.0 + 6L/1000) \mu\text{m}$ Flash 1552: $E_z = (8.0 + 6L/1000) \mu\text{m}$	
Z Linear Accuracy	$E_1 = (3.0 + 8L/1000) \mu\text{m}$	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications 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.

*Lenses and lens attachments can be manually interchanged to change magnification and working distance. **FOV sizes with optional monochrome camera are 15% smaller in Measure-X. ***Rainbow Probe only supported in ZONE3.



Confidence. When Results Matter.™

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