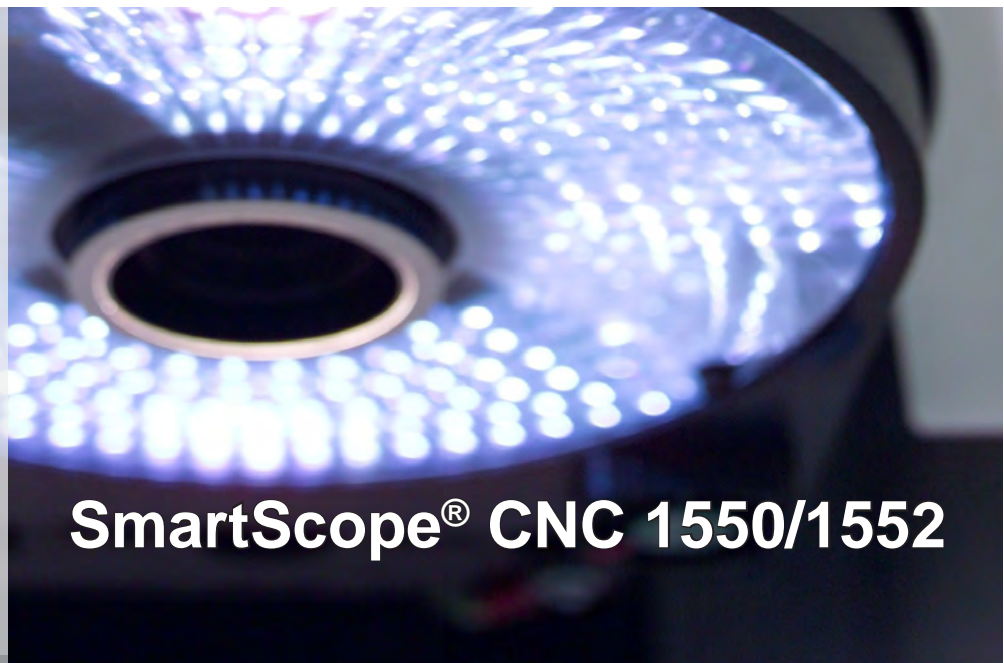




**Optical
Gaging
Products**



A Division of Quality
Vision International



SmartScope® CNC 1550/1552

- *Open work area* – Optics mounted on a moving bridge — part remains stationary and easily accessible to the operator
- *Precision optics* – High quality Zoom 12 AccuCentric® zoom lens autocalibrates with every magnification change
- *Exclusive illumination to measure the most challenging parts* – Substage, TTL, and SmartRing™ light illuminate parts from all angles
- *Multisensor versatility* – Optional touch probe and laser sensors

**Extra-Large XY-Travel
Multisensor Dimensional
Measuring System**

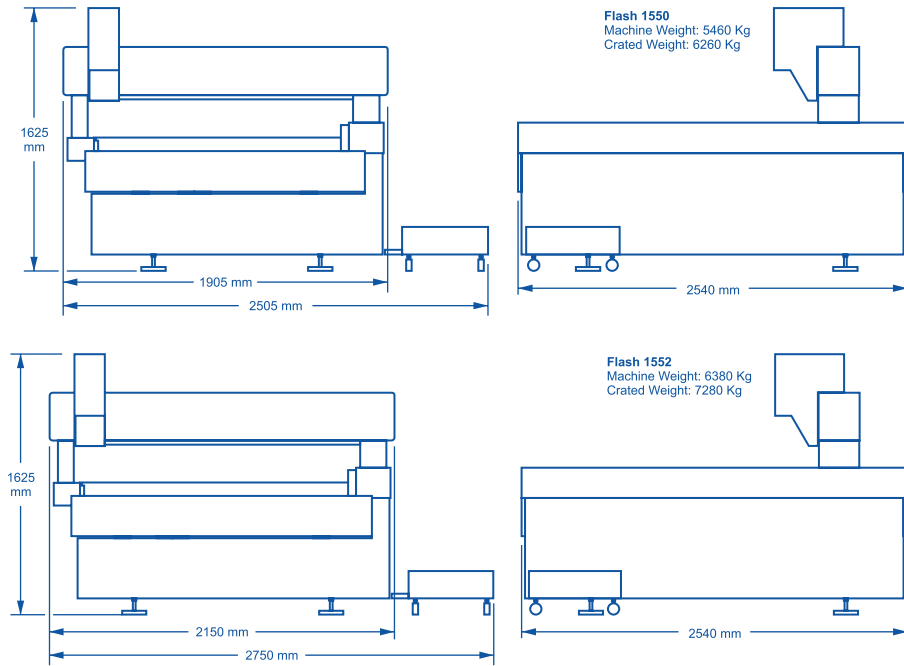


Flash 1550	
Axis	Travel (mm)
X axis	1250
Y axis	1500
Z axis	200
Extended Y (opt)	1800/2000

Flash 1552	
Axis	Travel (mm)
X axis	1500
Y axis	1500
Z axis	200
Extended Y (opt)	1800/2000



SmartScope® CNC 1550/1552



	Standard	Optional
XYZ travel	Flash 1550: 1250 x 1500 x 200 mm Flash 1552: 1500 x 1500 x 200 mm	Flash 1550 or 1552: Extended Y axis, 1800 or 2000 mm
XYZ scale resolution	0.5 µm, with dual Y-axis scales	
Drive system	DC servo with 4-axis control (X,Y,Z,zoom); with joystick (for Measure-X®) or multifunction handheld controller (for MeasureMind® 3D); dual Y-axis drives	
Worktable	Anodized, with fixture holes, removable stage glass, 100 kg recommended max payload	
Optics	Zoom 12 AccuCentric® auto-calibrating zoom with up to 25 calibrated positions	0.5x, 0.75x, 1.5x, and 2.0x lens attachments; 2.5x and 5.0x laser lenses (for use with or without optional TTL laser), LED grid projector; TTL laser adapter (includes laser pointer)
FOV size (std optical configuration)	Measured diagonally, 10.1 mm (low mag) to 1.1 mm (high mag)	
Illumination	LED substage (green), LED coaxial TTL surface, patented ¹ 8 sector/8 ring SmartRing™ LED (white)	
Camera	High resolution, color	
Image processing	256 level grayscale processing with 10:1 subpixel resolution	
Sensor options (contact OGP for possible combinations of sensors)		Touch probe and change rack, on-axis TTL laser, off-axis DRS™ laser
Controller	Windows® based, with up-to-date processor and on board networking/communication ports	
Controller accessory package		24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
Metrology software	Measure-X®	MeasureMind 3D MultiSensor®, Measure-X offline
Productivity software		MeasureFit® Plus, SmartReport® powered by QC-Calc, SmartFit® 3D, SmartProfile®, Scan-X®, TrueMap™, SmartScript®, SmartTree™
Power requirements	115/230 vac, 50/60 Hz, 1 phase, 700 W	
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 accuracy¹	Flash 1550: $E_2 = (5.0 + 8L/1000) \mu\text{m}^{2.3}$ Flash 1552: $E_2 = (8.0 + 8L/1000) \mu\text{m}^{2.3}$	
Z linear accuracy¹	$E_1 = (3.0 + 8L/1000) \mu\text{m}^3$	

¹Patent Number 5,690,417

²Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting.

³Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.

⁴E₁, Z axis linear and E₂, XY area accuracy standards are described in QVI Publication Number 790762.



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