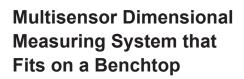




- Designed-in accuracy -Patented<sup>†</sup> "elevating bridge" design eliminates errors common to other designs
- Precision optics -High quality Zoom 12 AccuCentric® zoom lens autocalibrates with every magnification change
- Superb illumination for the best video measurements -Substage, TTL, and SmartRing™ light illuminate parts from all angles
- Multisensor versatility -Optional touch probe, laser, and micro-probe sensors

Axis	Travel (mm)
X axis	200
Y axis	200
Z axis	150









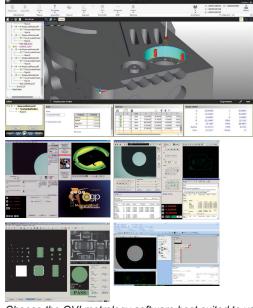






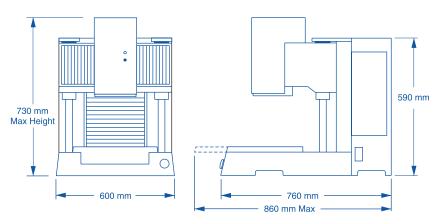


Shown with optional touch probe



Choose the QVI metrology software best suited to your manufacturing setting — 3D CAD-based ZONE3®, MeasureMind® 3D, Measure-X®, VMS™ or Elements®.

## **SmartScope®** Flash 200



Machine Weight: 100 Kg Crated Weight: 149 Kg

	Standard	Optional
VV7 traval		Орнопа
XYZ travel	200 x 200 x 150 mm	
XYZ scale resolution	0.5 µm, with dual Z-axis scales standard	0.1 μm
Drive system	DC servo with 4-axis control (X,Y,Z,zoom); with multifunction handheld controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 16 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 pointer (not available with TTL laser sensor)
FOV size (std optical configuration)	Measured diagonally, 10.1 mm (low mag) to 1.1 mm (high mag)	
Illumination	Patented <sup>††</sup> LED numerical aperture matching substage, LED coaxial TTL surface, 8 sector/8 ring SmartRing™ LED (white)	Flexible SmartRing light for long working distance optical configurations (in lieu of standard SmartRing light)     8 sector/6 ring Vu-Light™ LED ring light, standard working distance (70 mm), or low incidence working distance (36 mm) (in lieu of standard SmartRing light)     • Red or green SmartRing light (in lieu of standard white SmartRing light)
Camera	High resolution color metrology camera	
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 (touch probe not available with optional Vu-Light), on-axis TTL laser, Feather Probe™
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)
Software	QVI Portal, including:  • Portal Navigator  • Independent Calibration Engine (ICE)  • Multimedia Content Viewer  • SmartLink™	Metrology software: ZONE3® or ZONE3 Pro, MeasureMind® 3D MultiSensor, Measure-X®, VMS™, Elements® Productivity software: MeasureFit® Plus, SmartFit® 3D, SmartProfile® Offline software: ZONE3, MeasureMind 3D MultiSensor, Measure-X, VMS
Power requirements	115/230 vac, 50/60 Hz, 1 phase, 600 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 accuracy <sup>1</sup>	$E_2 = (2.0 + 6L/1000) \mu m^{2.3.4}$	
Z linear accuracy <sup>1</sup>	E <sub>1</sub> = (3.5 + 6L/1000) μm <sup>4</sup>	$E_1$ = (2.5 + 6L/1000) $\mu$ m <sup>4</sup> (with optional 2.0x replacement lens and grid projector, TTL laser, or TP200 touch probe)

Patent Number 6,518,996 "Patent Number 6,161,940" Where L = measuring length in mm. Applies to thermally stable system in rated environment. All optical accuracy specifications at maximum zoom lens setting. With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. Weasured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. 'E, Z axis linear and E<sub>z</sub> XY area accuracy standards are described in QVI Publication Number 790762.



