QVI® SNAP™ 200

Extended Range Digital Measuring Machine

RAM

SNAP 200 offers extended measuring range and optional dual magnifications optics for large *and* small feature measurement.

- Telecentric optics ensure accurate part measurements in shop conditions
- 205 x 55 mm measuring range with manual stage movement
- AutoID recognizes all parts within its measuring range, even multiple different parts
- Exclusive Zoom Anywhere™ technology lets you zoom in and measure details anywhere in the viewing area

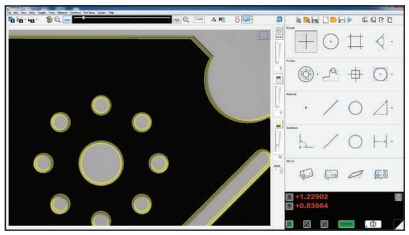
QVI

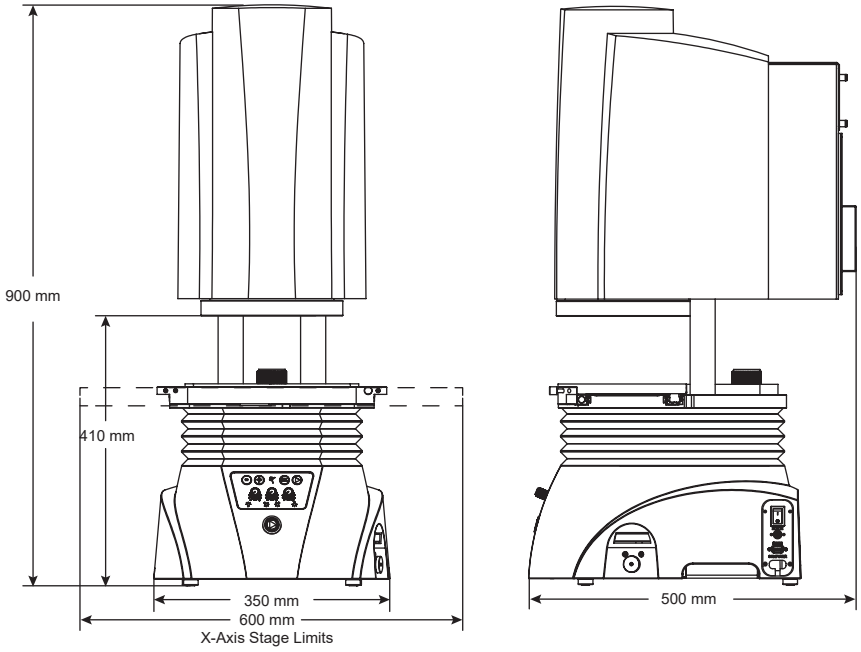
QVI® SNAP™ 200

Measurement Software

SNAP-X™ measurement software provides a full range of feature measurements with an unlimited number of points and measurement steps in a routine. SNAP-X makes it easy for QVI SNAP to accurately identify the part and its orientation. SNAP-X guides the user to reposition the stage when necessary.

Programming is simple too. Work from a CAD file, sample part, or just walk up and measure. **To run a part routine, just place the part on the stage and press** ▶





System Weight: 56 kg

	Standard	Optional
Measuring Unit	Rigid, cast aluminum base and nickel plated worktable, manual horizontal and vertical position adjustment	Motorized horizontal and vertical position adjustment
Stage	Nickel plated with glass insert, fixturing holes, manual X-axis stage, vertical position adjustment and programmable focus.	Rotary indexer
Maximum Measuring Range (X,Y,Z)	205 x 55 x 75 mm	250 x 100 x 75 mm (with Large Field Camera)
Stage Motion Range	X: 150 mm, Z: 75 mm	
Maximum Recommended Stage Load	4 kg	
Optics	Single magnification (fixed lens)	Fully telecentric, dual magnification
Metrology Camera	QVI High Density Megapixel Metrology Camera	QVI Large Field Megapixel Metrology Camera
Field of View (FOV)	78 mm diagonal in 8 digital zoom steps	*High Density Camera, Dual Mag:* Low Mag 78 mm, High Mag 19.5 mm in 10 zoom steps *Large Field Camera, Single Mag:* Low Mag 100 mm in 3 zoom steps *Large Field Camera, Dual Mag:* Low Mag 100 mm, High Mag 24.5 mm in 6 zoom steps
Depth of Field	Low Mag: 40 mm High Mag: 12 mm	*High Density Camera, Dual Mag:* Low Mag 40 mm, High Mag 5 mm *Large Field Camera, Single Mag:* Low Mag 50 mm *Large Field Camera, Dual Mag:* Low Mag 50 mm, High Mag 10 mm
Illumination	All LED, green substage profile light, programmable 8 sector green ring light	LED coaxial surface light
Image Processing	SNAP advanced image analysis, 256 level grayscale, with 10:1 - 50:1 sub-pixel resolution	
Controls	GO button, illumination controls	Control box with illumination controls and push button motion control for X and Z
System Controller *Controller configuration subject to change without notice.	QVI standard system controller with networking and communication ports*	Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse
Miscellaneous Options		Motorized X-axis, motorized Z-axis for programmable focus, rotary indexer, barcode reader, USB digital I/O capability, dust cover, fixture kit, peripheral support frame, calibration artifact
Rated Environment	Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz	
Power	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 160W	
X Accuracy (E_1) [1,2,3,4,5]	(10.0 + L/150) µm	(5.0 + L/150) µm (high optical / high digital)
XY Stage Accuracy (E_2) [1,2,3,4,5]	(10.0 + L/150) µm	**Low Mag**: (10.0 + L/150) µm; **High Mag**: (5.0 + L/150) µm
XY FOV Accuracy (E_2) [1,2,3,4,5]	**Low Digital Mag**: 10 µm; **High Digital Mag**: 5 µm	**Low Digital Mag**: 10 µm; **High Digital Mag**: 5 µm

1. Where L = Measurement length in mm. Applies to the entire field of view at the highest digital zoom level at each optical magnification and full X-axis travel. | 2. With evenly distributed 2.5 kg load. | 3. All specifications apply to a thermally stable system operated in the rated environment. | 4. QVI calibration artifact P/N 638696 for standard camera; 640685 for optional camera. | 5. Calibration artifacts are described in QVI publication number 790762.

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