



QVI® SNAP™ 200

Extended Range Digital Measuring Machine

RAM

SNAP measures complex parts instantly without programming. Simply place the part on the stage and press the GO button.

- Telecentric optics ensure accurate part measurements in shop conditions
- AutoID recognizes any known part in the field of view
- Automatically find and measure any unknown parts in the field of view
- Exclusive Zoom Anywhere™ technology lets you zoom in to measure details anywhere in the viewing area
- SNAP 200 offers extended measuring range and optional dual magnification optics for large *and* small feature measurements



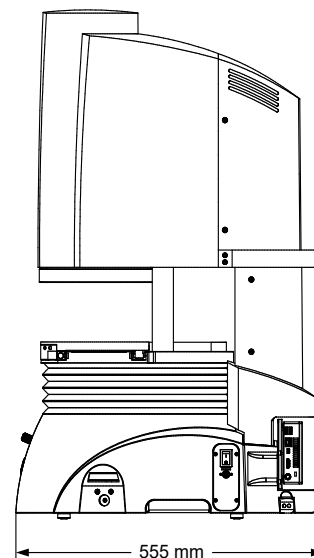
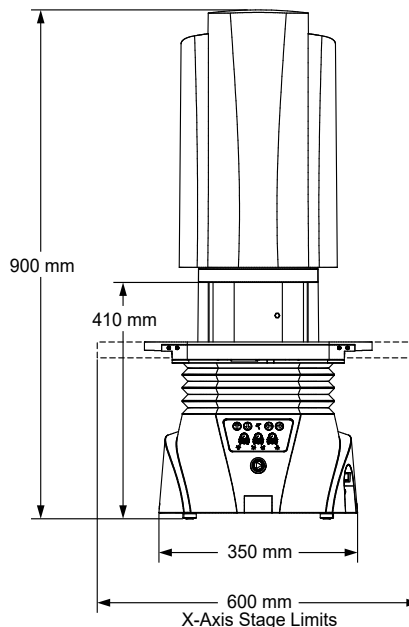
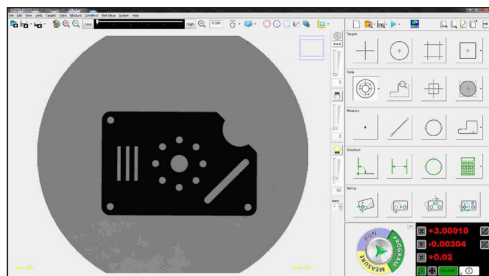
Measurements Made Simple

SNAP provides a full range of feature measurements with an unlimited number of points - with or without a pre-programmed routine. AutoID and FeatureExtractor™ allow SNAP to accurately identify, orient and measure any part in its field of view.

Choose the mode for your task:

- Run - for pre-programmed routines
- Measure - to automatically measure any part
- Program - to set up a part routine

To measure, 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; 75mm manual vertical position adjustment and stage lock 4 kg load capacity, evenly distributed		
Stage	Nickel plated worksurface with glass insert and tapped fixturing holes, manual X axis and Z axis position adjustment and programmable focus	Motorized X and Z axis positioning & Autofocus (with optional dual magnification optics) 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		
Optics	Telecentric, single optical magnification	Telecentric, dual optical magnification with 4X optical high magnification	
Metrology Camera	QVI High Density Megapixel Metrology Camera	QVI Large Field Megapixel Metrology Camera	
Maximum Field of View (diagonal)	Single Mag / High Density Camera: 78 mm	Single Mag / Large Field Camera: 100 mm Dual Mag / High Density Camera: Low Mag 78 mm, High Mag 19.5 mm Dual Mag / Large Field Camera: Low Mag 100 mm, High Mag 24.5 mm	
Digital Zoom Range	Single Mag / High Density Camera: 4:1 total zoom range	Single Mag / Large Field Camera: 3:1 total zoom range Dual Mag / High Density Camera: 16:1 total zoom range Dual Mag / Large Field Camera: 12:1 total zoom range	
Depth of Field	Single Mag / High Density Camera: 12 mm	Single Mag / Large Field Camera: 50 mm Dual Mag / High Density Camera: Low Mag 20 mm, High Mag 5 mm Dual Mag / Large Field Camera: Low Mag 50 mm, High Mag 10 mm	
Illumination	All LED, green substage profile light, programmable 8-sector green ring light	LED green coaxial surface light	
Image Processing	SNAP advanced image analysis, 256 level grayscale, with 10:1 - 50:1 sub-pixel resolution		
Controls	GO button, illumination & magnification controls	Push button motion control for motorized X and Z	
System Controller <small>*Controller configuration subject to change without notice.</small>	SNAP standard system controller with networking and communication ports*	Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse	
Miscellaneous Options		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		
XY Area Accuracy (E ₂) ^{1,2,3,4,5}	(10.0 + L/150) µm	Dual Mag / Low Optical Mag	Dual Mag / High Optical Mag
		(10.0 + L/150) µm	(5.0 + L/150) µm
XY FOV Accuracy (E ₂) ^{1,2,3,4,5}	Single Magnification Optics	Dual Magnification Optics / Low Mag	Dual Magnification Optics / High Mag
	5 µm	10 µm	5 µm

1. Where L = Measurement length in mm. All specifications apply to a thermally stable system operated in the rated environment. | 2. Applies to the highest digital zoom level at each optical magnification and full X-axis travel. | 3. With evenly distributed 2.5 kg load. | 4. QVI calibration artifact P/N 640133 or 640685 for high density camera; 640554 for large field camera. | 5. Calibration artifacts are described in QVI publication number 790762.

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