

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

- Telecentric optics ensure accurate part measurements in shop conditions
- AutoID recognizes any known part in the field of view
- Automatically find and measure unknown parts in the measuring range
- Zoom Anywhere[™] technology lets you zoom in to measure details anywhere in the viewing area
- Optional motorized 150 mm
 Z axis with video autofocus
- Optional touch probe and laser for high accuracy Z axis measurements



Large Area Digital Measuring Machine

RAM



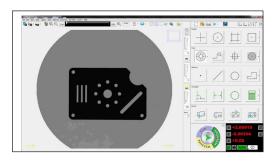
Measurements Made Simple

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.

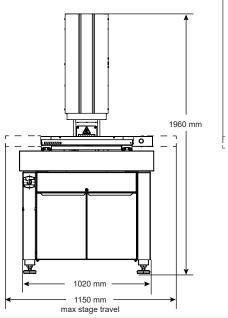
Choose the mode for your task:

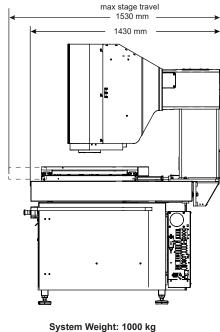
- Run for pre-programmed routines
- Measure to automatically measure any part
- Program to set up a part routine

To measure, just place the part on the stage and click >









	Standard	Optional		
Measuring Unit	Rugged steel frame and column with granite surface plate			
Stage	Precision motorized compound X,Y stage with DC servo drives	Precision motorized 150 mm Z axis with DC servo drive		
Stage Motion Range	X,Y: 350 x 350 mm Z: 75 mm (manual preset)	X: 510 mm; Z: 150 mm w/automatic focus (with optional dual magnification optics)		
Maximum Measuring Range (X,Y)	440 x 400 mm	480 x 460 mm (with optional Large Field Camera) 570 x 400 mm (with optional extended X axis travel) 610 x 460 mm (with optional Large Field Camera and extended X axis travel)		
Maximum Recommended Stage Load	30 kg			
Optics	Telecentric, single optical magnification	Telecentric, dual optical magnification with 4X optical high magnification 16X high magnification lens (dual magnification, large field camera systems only)		
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: Low Mag 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, 4X Mag 24.5 mm, 16X Mag 5mm		
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 (4X high mag); (60:1 with 16X)		
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 (4X) 10 mm; (16X) 2 mm		
Sensor Options		Touch probe and change rack; DRS™ Laser (both require optional motorized Z axis)		
Illumination	All LED, green substage profile light and programmable 8-sector green ring light	LED green coaxial surface light		
Image Processing	SNAP advanced image analysis, 256 level grayscale, with	SNAP advanced image analysis, 256 level grayscale, with 10:1 - 50:1 sub-pixel resolution		
User Control Unit	Multi-function hand controller with joystick and lighting controls			
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		Barcode reader, USB digital I/O, fixture kit, rotary indexer, 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, 400W			
XY Area Accuracy (E ₂) 1,2,3,4,5	(5.0 + 8L/1000) µm			
Z Accuracy (E ₁) 1,2,3,4,5		(25.0 + 6L/1000) µm (with optional dual magnification optics and motorized Z-axis) (5.0 + 6L/1000) µm (with optional touch probe or DRS laser)		
XY FOV Accuracy (E ₂) 1,3,4	Single Magnification Optics	Dual Magnification Optics / Low Mag	Dual Magnification Optics / High Mag	
	5 μm	10 μm	5 μm (4X) 1 μm (16X)	

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.



