

SNAP 350 offers up to a 100 mm field of view with expansive XY stage travel to measure dimensions of large parts with critical details or numerous small parts automatically.

- 350 x 350 mm XY stage travel for large parts
- AutoID recognizes and measures all parts within its measuring area - even multiple different parts
- Zoom Anywhere[™] technology lets you zoom in to measure fine details anywhere in the field of view
- Optional motorized 150 mm
 Z-axis with video autofocus
- Optional touch probe for high accuracy Z-axis measurements



RAM



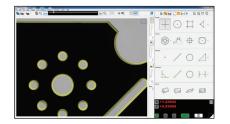


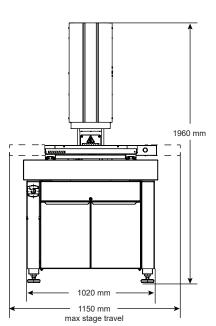


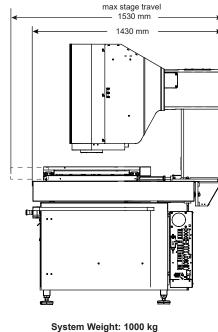
Measurement Software

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

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 the ▶ button.







	Standard		Optional	
Measuring Unit	Rugged steel frame and colu	Rugged steel frame and column with granite surface plate		
Stage	Precision motorized compour drives	nd X,Y stage with DC servo	Precision motorized Z-axis stage with DC servo drives	
Stage Motion Range	X,Y: 380 x 360 mm Z: 75 m	m (manual preset)	X,Y: 510 x 360 mm Z: 150 mm (motorized with automatic focus)	
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	30 kg		
Optics	Fully telecentric, single optical	l magnification	Fully telecentric, dual optical magnification	
Camera	QVI High Density Megapixel	Metrology Camera	QVI Large Field Megapixel Metrology Camera	
Maximum Field of View (diagonal)	Single Mag / High Density Ca	amera: 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, High Mag 24.5 mm	
Digital Zoom Range	Single Mag / High Density Ca	amera: 8 Digital Zoom Steps	Single Mag / Large Field Camera: 3 Digital Zoom Steps (3:1 total zoom range) Dual Mag / High Density Camera: 10 Digital Zoom Steps (16:1 total zoom range) Dual Mag / Large Field Camera: 6 Digital Zoom Steps (12:1 total zoom range)	
Depth of Field	Single Mag / High Density Ca	amera: 40 mm	Single Mag / Large Field Camera: 50 mm Dual Mag / High Density Camera: Low Mag 40 mm, High Mag 5 mm Dual Mag / Large Field Camera: Low Mag 50 mm, High Mag 10 mm	
Sensor Options			Touch probe and change rack; DRS™ Laser (both require optional motorized Z-axis)	
Illumination	All LED, green substage prof 8-sector green ring light	ile light and programmable	LED green coaxial surface light	
Image Processing	SNAP advanced image analy	SNAP advanced image analysis, 256 level grayscale, with 10:1 - 50:1 sub-pixel resolution		
User Control Unit	Multi-function hand controller	Multi-function hand controller with joystick and lighting controls		
System Controller *Controller configuration subject to change without notice.	QVI standard system controll communication ports*	er with networking and	Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse	
Rated Environment	Temperature 18-22° C, stable	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	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 400W		
XY Stage Accuracy (E ₂) 1,2,3,4,5	(5.0 + 8L/1000) μm	(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	Low Digital Mag	High Digital Mag		
	10 µm	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 over the full range of X,Y travel. | 2. With evenly distributed 5 kg load. | 3. All specifications apply to a thermally stable system operated in the rated environment. | 4. QVI calibration artifacts are described in QVI publication number 790762.



