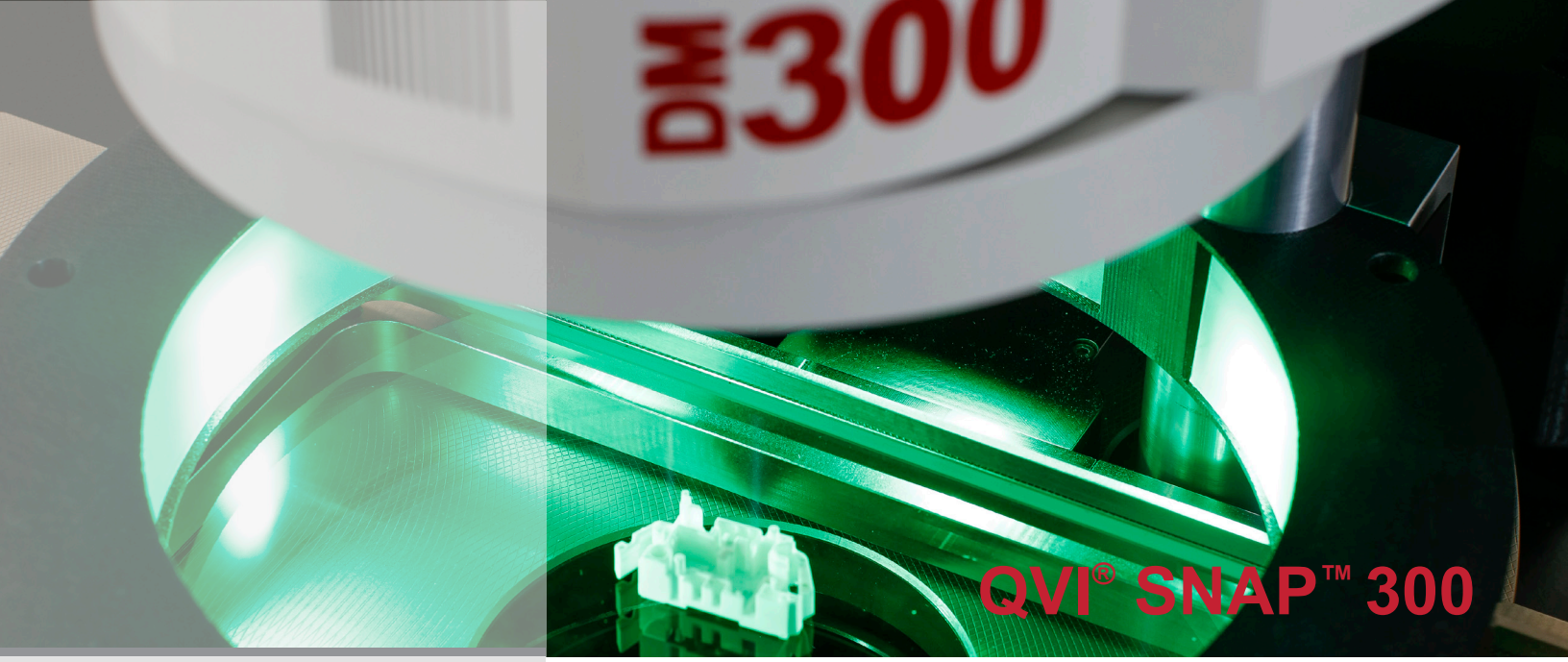


Extended Range Digital Measuring Machine

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 300 offers extended X and Y measuring range and optional dual magnfication optics for large *and* small feature measurements

QVI

QVI® SNAP™ 300

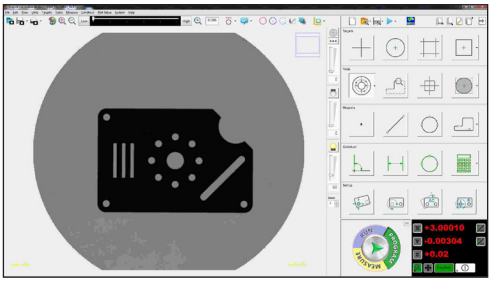
Measurements Made Simple

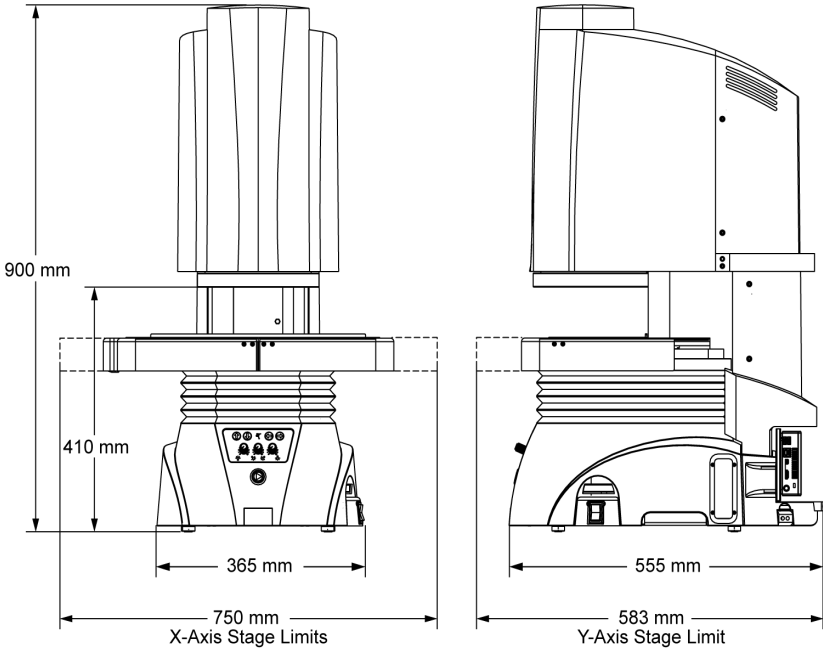
SNAP provides a full range of feature measurements with an unlimited number of points - with or without a pre-programmed routine. AutoID and FeatureExtractor™ accurately identify, orient and measure any part in its field of view.

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: 60 kg

	Standard	Optional	
Measuring Unit	Rigid, cast aluminum base and nickel plated worktable; 4 kg load capacity, evenly distributed		
Stage	Motorized X, Y and Z axis position adjustment and programmable focus	Rotary indexer	
Maximum Measuring Range (X,Y)	205 x 105 mm	250 x 150 mm (with Large Field Camera)	
Stage Motion Range	X: 150 mm, Y: 50 mm, Z: 75 mm		
Optics	Telecentric, single optical magnification	Telecentric, dual optical magnification with 4X optical mid magnification 16X optical high magnification lens in lieu of 4X mid mag 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:* 100 mm *Dual Mag / High Density Camera:* Low Mag 78 mm, 4X Mid Mag 19.5 mm *Dual Mag / Large Field Camera:* Low Mag 100 mm, 4X Mid Mag 24.5 mm, 16X High 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);(60:1 total zoom range (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	
Illumination	All LED, green substage profile light, programmable 8 sector green ring light	LED green coaxial surface light Deployable 8-sector green LED ring light with variable incidence angle	
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 controls for motorized X, Y stage, and toggle switch for Z motion control		
System Controller *Controller configuration subject to change without notice.	SNAP standard system controller with USB communication ports	Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse	
Miscellaneous Options		Barcode reader, USB digital I/O capability, USB - Ethernet adapter, 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,Y Linear Accuracy (E_1) [1,2,3,4,5]	(12.5 + L/50) 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 (4X) 1 µm (16X)

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. | 3. With evenly distributed load ≤ 2.5 kg.
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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RAM

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