



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

- Bi-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 magnification optics for large and small feature measurements

## Desktop digital measuring machine



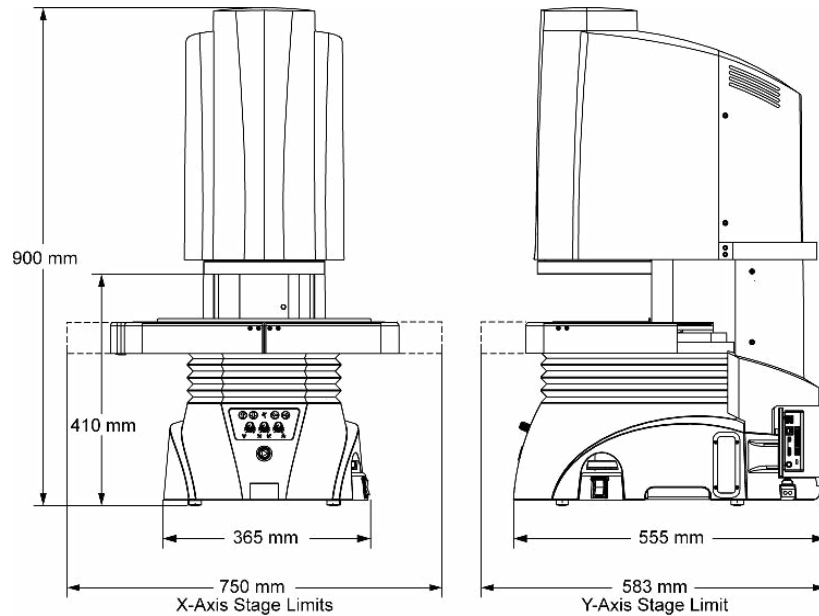
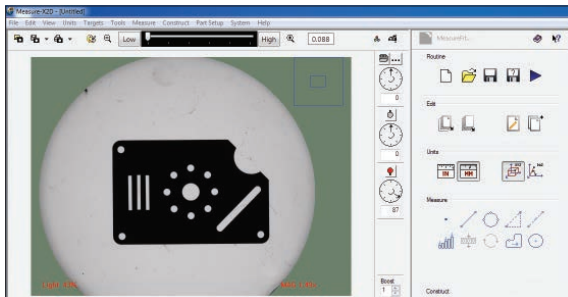
## Measurements Made Simple

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: 65 kg

|   | Standard   | Optional   |   |   |
|---|--|--|---|---|
| <b>Measuring unit</b>   | Rigid, cast aluminum base and nickel plated worktable; 4 kg load capacity, evenly distributed  |  |   |   |
| <b>Stage</b>  | Motorized 150 mm X, 50 mm Y, and 75 mm Z axis position adjustment and programmable focus   | SNAP Rotary indexer  |   |   |
| <b>Maximum measuring range (X,Y)</b>  | 205 x 105 mm   | 250 x 150 mm (with Large Field Camera)   |   |   |
| <b>Illumination</b>   | Bi-telecentric, single optical magnification   | Bi-telecentric, dual optical magnification with 4X high magnification lens<br>9.6X ultra high mag lens in lieu of standard high mag lens for dual mag systems  |   |   |
| <b>Metrology camera</b>   | QVI High Density Megapixel Metrology Camera  | QVI Large Field Megapixel Metrology Camera   |   |   |
| <b>Maximum field of view (diagonal)</b>   | Single Mag / High Density Camera: 78 mm  | Single Mag / Large Field Camera: 100 mm<br>Dual Mag / High Density Camera: Low: 78 mm High: 19.5 mm Ultra High: 8.1 mm<br>Dual Mag / Large Field Camera: Low: 100 mm High: 45.0 mm Ultra High: 19.0 mm |   |   |
| <b>Depth of field</b>   | Single Mag / High Density Camera: 20 mm  | Single Mag / Large Field Camera: 50 mm<br>Dual Mag / High Density Camera: Low: 20 mm High: 5 mm Ultra High: 1 mm<br>Dual Mag / Large Field Camera: Low: 50 mm High: 10 mm Ultra High: 2 mm             |   |   |
| <b>Image processing</b>   | SNAP advanced image analysis, 256 level grayscale, with 10:1 - 50:1 sub-pixel resolution   |  |   |   |
| <b>Controls</b>   | GO button, illumination & magnification controls; Push button motion controls for motorized X, Y stage, and toggle switch for Z motion control |  |   |   |
| <b>System controller</b><br><small>*Controller configuration subject to change without notice</small> | SNAP standard compact system controller with USB communication ports   | Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse  |   |   |
| <b>Miscellaneous options</b>  | Barcode reader, USB digital I/O capability, USB - Ethernet adapter, dust cover, fixture kit, peripheral support frame, calibration artifact    |  |   |   |
| <b>Rated environment</b>  | Temperature 18 °C - 22 °C, stable to ±1 °C; 30-80% humidity; vibration <0.001g below 15 Hz   |  |   |   |
| <b>Power</b>  | 100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 160 W   |  |   |   |
| <b>XY FOV accuracy (E<sub>2</sub>)</b>  | <b>Single Magnification Optics</b>   | <b>Dual Magnification Optics</b>   |   |   |
|   | (4.0 + L/50) μm <sup>1,2,3,4,5</sup>   | (4.0 + L/50) μm <sup>1,2,3,4,5</sup><br>(low mag lens)   | (2.0 + L/50) μm <sup>1,2,3,4,5</sup><br>(high mag lens)   | (1.0 + L/50) μm <sup>1,2,3,4,5</sup><br>(ultra high mag lens)   |
| <b>XY area accuracy (E<sub>2</sub>)</b>   | (9.0 + L/50) μm <sup>1,2,3,4,5,6</sup>   | (9.0 + L/50) μm <sup>1,2,3,4,5,6</sup><br>(low mag lens)   | (7.0 + L/50) μm <sup>1,2,3,4,5,6</sup><br>(high mag lens) | (6.0 + L/50) μm <sup>1,2,3,4,5,6</sup><br>(ultra high mag lens) |

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 640113 or 640685 for high density camera; 640554 for large field camera. | 5. Calibration artifacts are described in QVI publication number 790762. | 6. Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface.



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