

# SNAP

Large-Field-of-View Measuring Systems

# Measurements Made Simple

**SNAP™** measurement systems are general purpose large-field-of-view (LFOV) video measuring machines, capable of performing fast accurate measurements on a wide array of parts from the lab to the shop floor.

At the heart of the SNAP, OGP exclusive LFOV telecentric optics, provide an accurate image throughout the field of view (up to 100mm). Coupled with a depth of focus (up to 50mm) measurements are performed with much greater speed than traditional video measurement systems.

Creating the best image for measuring, the SNAP's three programmable light sources – profile, surface and TTL (through the lens) – let you choose the best illumination for a variety of feature types and materials. A high-resolution camera designed for metrology, processes the magnified image for measurement.

SNAP-X Measurement Software is a simple, powerful user interface, including a full range of measurement capabilities. SnapShot™, AutoID, and Zoom Anywhere make it easier for the operator by simplifying measurement tasks.

Available in a variety of platform configurations, bench top and floor based, to match the customer's requirements for size and quantity of parts.

The features listed above, make the SNAP unique in the combination of speed, accuracy, and simplicity. SNAP Large Field of View Video Measurement systems give operators the power to make accurate measurements, quickly and easily, from the lab to the shop floor.

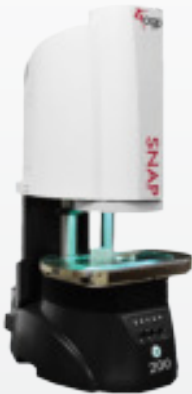


# A Size for Every Need



## SNAP 100

Stage Motion	<b>Z:</b> 75 mm
Optics	Telecentric, Single Optical Mag
Field of View	62 mm x 46 mm
Depth of Field	20 mm
Maximum Measuring Range (X,Y)	62 mm x 46 mm



## SNAP 200

Stage Motion	<b>X:</b> 150 mm, <b>Z:</b> 75 mm
Optics	Telecentric, Dual Optical Mag
Field of View	<b>Low Mag:</b> 100 mm Diameter <b>High Mag:</b> 32 mm x 32 mm (4x)
Depth of Field	<b>Low Mag:</b> 50 mm <b>High Mag:</b> 10 mm (4x)
Maximum Measuring Range (X,Y)	250 mm x 100 mm



## SNAP 300

Stage Motion	<b>X:</b> 150 mm, <b>Y:</b> 50 mm, <b>Z:</b> 75 mm
Optics	Telecentric, Dual Optical Mag
Field of View	<b>Low Mag:</b> 100 mm Diameter <b>High Mag:</b> 32 mm x 32 mm (4x) or 13 mm x 13 mm (10x)
Depth of Field	<b>Low Mag:</b> 50 mm <b>High Mag:</b> 10 mm (4x) or 2 mm (10x)
Maximum Measuring Range (X,Y)	250 mm x 150 mm



## SNAP 350

	Standard	Optional
Stage Motion	<b>X:</b> 350 mm, <b>Y:</b> 350 mm, <b>Z:</b> 150 mm	<b>X:</b> 510 mm
Optics	Telecentric, Dual Optical Mag	
Field of View	<b>Low Mag:</b> 100 mm Diameter <b>High Mag:</b> 32 mm x 32 mm (4x) or 13 mm x 13 mm (10x)	
Depth of Field	<b>Low Mag:</b> 50 mm <b>High Mag:</b> 10 mm (4x) or 2 mm (10x)	
Maximum Measuring Range (X,Y)	450 mm x 450 mm	610 mm x 450 mm

# Choose the Software That's Right for You

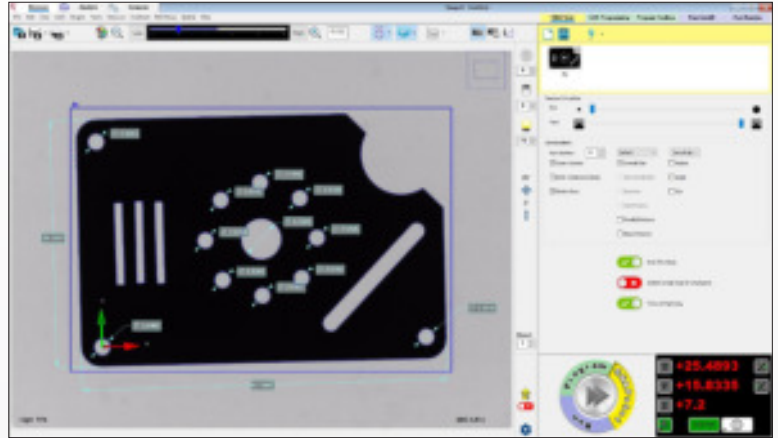
## SNAP-X

SNAP-X Measurement Software is a simple, powerful interface with a full range of feature measurements with or without a preprogrammed routine. SNAP-X software has three functions to allow for a range of different uses.

**Measure:** Place the part on the stage, press the green button. The SNAP scans the image and Feature Extracts all discernable features. They can be viewed with no further action, or the features can be turned into measured steps for a program.

**Analyze:** Gives SNAP users the ability to address more complex GD&T requirements such as profile or true position. The display and reporting capabilities provide both graphical, color coded whiskers of deviation, and GD&T callouts on the part CAD.

**Compare:** Compare the live video image to the CAD overlay as with an optical comparator, but with much greater resolution. Color coded tolerance bands help to identify if a part is within tolerance.

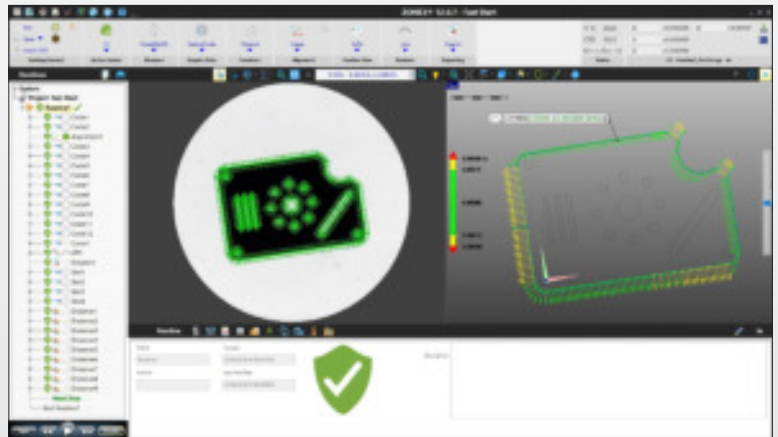


## ZONE3

ZONE3® is fast, capable, and easy to use regardless of which member of the ZONE3 family you use – Express, Prime, or Pro.

SnapShot™ Full-Field Image processing combined with intelligent routine Optimization can be used to measure as many features as can be seen simultaneously.

ZONE3 recognizes ASME Y14.5 and ISO 1101 standards for GD&T and results can be output graphically to truly visualize the result.



**ZONE3 Express** offers full measurement capabilities and tools, basic GD&T functionality, and the ability to work with 2D CAD files.

**ZONE3 Prime** offers all the functionality of Express, plus full 3D CAD capability and advanced GD&T functionality.

**ZONE3 Pro** adds enhanced productivity and analysis tools as well as the LaunchPad operator interface and modules for thread and gear evaluation.



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