



*The Fastest, Easiest, Most Accurate Way to Compare a Part to a CAD File™*

# VisionGauge® Digital Optical Comparator 300 Series / Field-of-View Systems

- Automatically compare parts to their CAD data with our proprietary CAD Auto-Align and CAD Auto Pass/Fail tools , in seconds
- Needs no overlays, templates or Mylars™
- Instantly computes and displays deviations-from-nominal and out-of-tolerance areas
- No operator-to-operator variation
- Extremely fast & easy-to-use!
- Full automated measurement capability
- The best, highest-resolution, clearest & sharpest image available!
- Joystick & barcode reader driven
- Intuitive software interface
- Innovative patent pending technology
- Accurate to +/- 0.0001" (2.5 μ)
- Automatic image & data collection
- Built-in SPC capability
- All-LED computer-controlled multi-illumination modules (back, front square-on and front oblique) are standard!
- High-resolution precision optics
- No moving parts
- No consumable parts
- Convenient desktop configuration
- Easy to learn and operate. You'll be up & running on "day one".
- Perfect for both the shop floor and the quality control lab



The 300 Series VisionGauge® Digital Optical Comparators are extremely cost effective Field-of-View Systems that are ideal for smaller parts (up to 1.7" x 1.2").

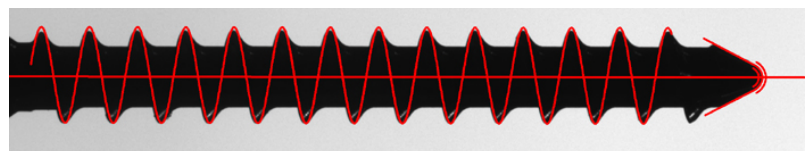
They have an extended depth-of-field for tall parts (as high as 1.1") and a long working distance that provides ample clearance and room to work between the part and the lens.

They produce a stunning super-high-resolution image to carry out fine, detailed inspections.

Three different types of LED illumination are standard: collimated back, front off-axis (i.e. "dark field") and front on-axis (i.e. "bright field"). This allows the system to produce crisp, sharp edges and perform beautifully even when working with hard-to-image materials (for example: shiny, reflective or even translucent surfaces) and difficult geometries (such as deep holes).

VisionGauge® Digital Optical Comparators are complete, ready-to-run Windows-based solutions. They are delivered network-ready and include on-site installation, NIST-traceable calibration & training.

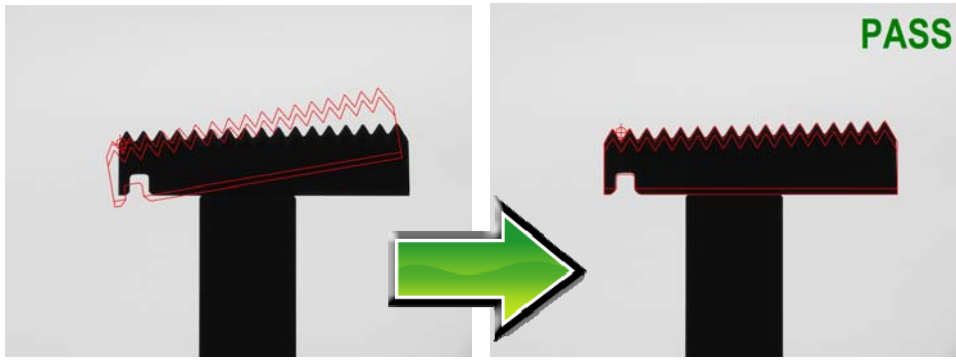
The 300 Series Field-of-View Systems are desktop instruments that have all of the functionality of the 500 Series VisionGauge® Digital Optical Comparators, with the sole exception that they are limited to smaller parts.



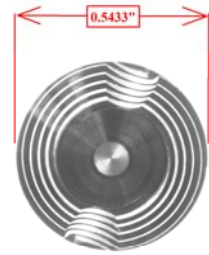
# VisionGauge® Digital Optical Comparator 300 Series - Principal Specifications

	Model #	
	VG300DOC-30V-20X	VG300DOC-30V-10X
Maximum part size (i.e. field-of-view dimensions)	1.7" (horizontal) x 1.2" (vertical) (i.e. 2.0" diagonal)	3.1" (horizontal) x 2.3" (vertical) (i.e. 3.9" diagonal)
Maximum part height	0.8"	3.0"
Vertical clearance (between the working surface and the lens)	6.5"	8.9"
Equivalent optical magnification (approx.)	20X	10X
"Desktop" configuration	Yes	
Image viewing area (diagonal)	38"	
Software	VisionGauge® OnLine Standard Edition	
Software interface	Intuitive, windows-based graphical user interface (i.e. "point & click")	
Part fixturing configuration (if desired)	Tapped hole pattern on main working surface surface (#10-24)	
Working surface finish	Hard coat anodized aluminum with glass insert	
Maximum load	50 lbs	
Camera	High-resolution, digital (9 MegaPixel)	
Live video "refresh"	Real-time	
Illumination	<ul style="list-style-type: none"> <li>• LED-based (for very stable illumination conditions, with a very long life)</li> <li>• Programmable and computer-controlled (for repeatable illumination conditions)</li> <li>• Includes 3 different illumination modules: collimated transmitted (i.e. back), on-axis reflected (i.e. front) and oblique reflected (i.e. front) illumination modules are standard</li> </ul>	
Lens	Very low distortion telecentric, with long working distance and extended depth-of-field	
Real-time mathematical image processing, enhancement and correction	Yes	
Multi-monitor display	Yes	
Overall Quad-Monitor size	35" (wide) x 27" (high)	
Auto Pass / Fail (to determine if the part matches the CAD data)	Yes	
Auto Pass / Fail Control Sections & Geometric ENTITIES	User-selectable, with bi-directional tolerances	
CAD Auto-Align	Yes: automatically align the CAD data to the part (either XY or XY & Rotation alignment) along an arbitrary number of user-specified datums.	
Extended set of high-accuracy measurement tools	Yes	
Sub-pixel accurate edge detection	Yes	
Quickly carry out on-screen measurements using either the mouse or joystick	Yes	
Joystick	3-axis, 3-speed industrial grade	
Image annotation tools	Yes	
Quickly and easily save images of parts, either with or without the CAD overlay, measurements as well as time & date information	Yes	
Built-in SPC capabilities, with automatic numerical charts & PASS / FAIL graphs	Yes	
Automatic data export to Excel™	Yes	
Automatic data export to other applications	Yes (through Windows™ DDE or other mechanisms)	
Built-in Dynamic Data Exchange (DDE) support	Yes	
Easy file data import & export	Yes	
Automatically load-in a CAD file using the system's barcode reader	Yes	
Barcode reader	Honeywell, industrial grade	
Align the DXF overlay (position & orientation) using either the external 3-speed joystick or the intuitive on-screen controls	Yes	
DXF Overlay Toolbox for quick CAD data and settings changeover & recall	Yes ("1-click")	
Quick changeover between DXF overlay and crosshair or bull's eye (for measurements)	Yes ("1-click")	
Supervisor-level / operator-level password protection	Yes	
Operating System	Windows™ 7	
Built-in "F1 Help"	Yes	
Power requirements	110V, 2 Amp	
Operating temperature	10 °C - 30 °C	
Clear and easy-to-use documentation (both printed and electronic "pdf" format)	Yes	
Support (by phone, fax & email)	Included for a full year	
Free software updates	Included for a full year	
Warranty	1 year (complete)	

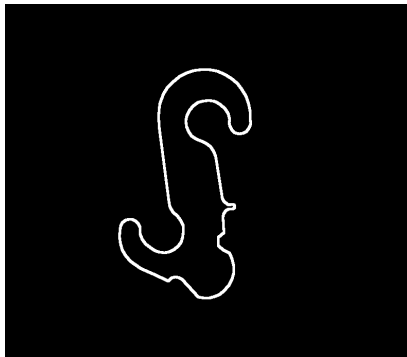
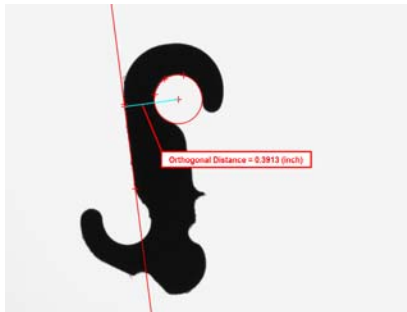
Note: specifications subject to change without notice.



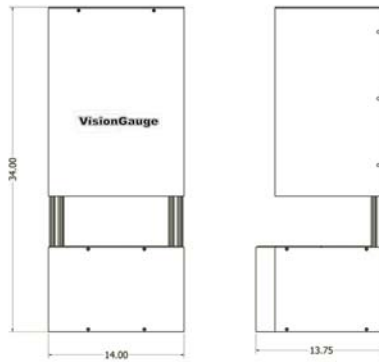
Proprietary CAD Auto-Align and Auto Pass/Fail tools work almost instantly and produce very accurate, operator-independent results



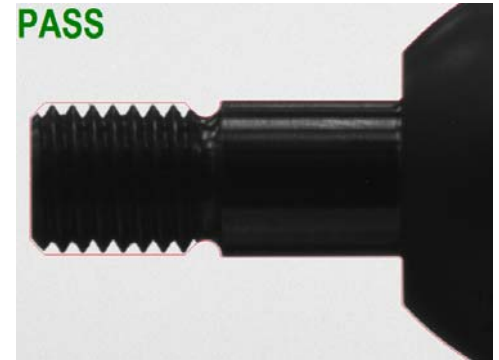
Fast and accurate automated measurements



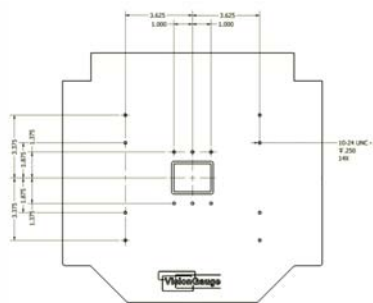
Reverse Engineer...



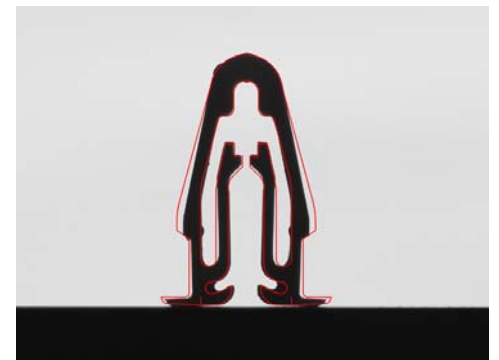
Main unit overall dimensions  
(Model # VG300DOC-30V-20X)



The groundbreaking CAD Auto Pass/Fail tool eliminates operator subjectivity



All-purpose mounting hole pattern  
for easy & flexible part fixturing (in the case  
where parts are to be fixtured)



Quickly and easily check flexible and other  
hard-to-inspect parts against their CAD data

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