



Digital Optical Comparator /  
Digital Profile Projector  
(PATENTED & OTHER PATENTS PENDING)

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

## VisionGauge® Standalone Inspection & Measurement System



The VisionGauge® Standalone Inspection and Measurement System's main unit can be installed in any orientation: horizontally, vertically, upside-down... however best suits the space in your automation cell.

### The VisionGauge® Standalone Inspection and Measurement System:

- Is a VisionGauge® system designed specifically for automation applications
- Is a very widely-applicable and extremely general-purpose system
- Has all of VisionGauge's® advanced inspection and measurement capabilities, including our patented CAD Auto-Align™ and CAD Auto-Pass/Fail™ tools
- Can easily be dropped into an existing automated cell
- Has a very high-resolution optical system, with a large depth-of-field and a long working distance
- Includes 3 different types of LED illumination:
  - Transmitted back illumination
  - Reflected off-axis illumination
  - Reflected coaxial illumination
- Produces very crisp & clear, high-contrast, high-resolution images
- Is easy to interface with a robot or other part-positioning equipment
- Includes extensive communication capabilities (e.g. TCP/IP over Ethernet, digital I/Os, etc...) for full 2-way handshaking (with a robot or cell controller, for example)
- Is available in both 10X and 20X magnifications
- Is perfect for carrying out very high-accuracy inspections & measurements
- Includes extensive data collection, statistics, charting, data manipulation & exchange capabilities



Remote cabinet with controls, user interface & I/O connections

# VisionGauge® Standalone Inspection and Measurement System

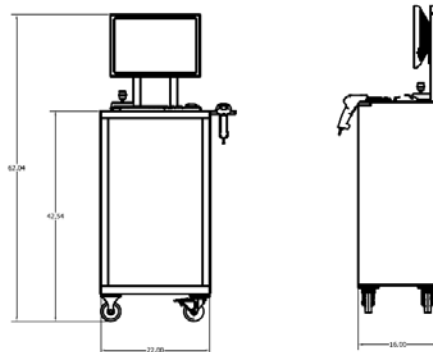
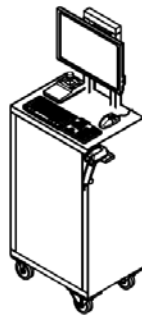
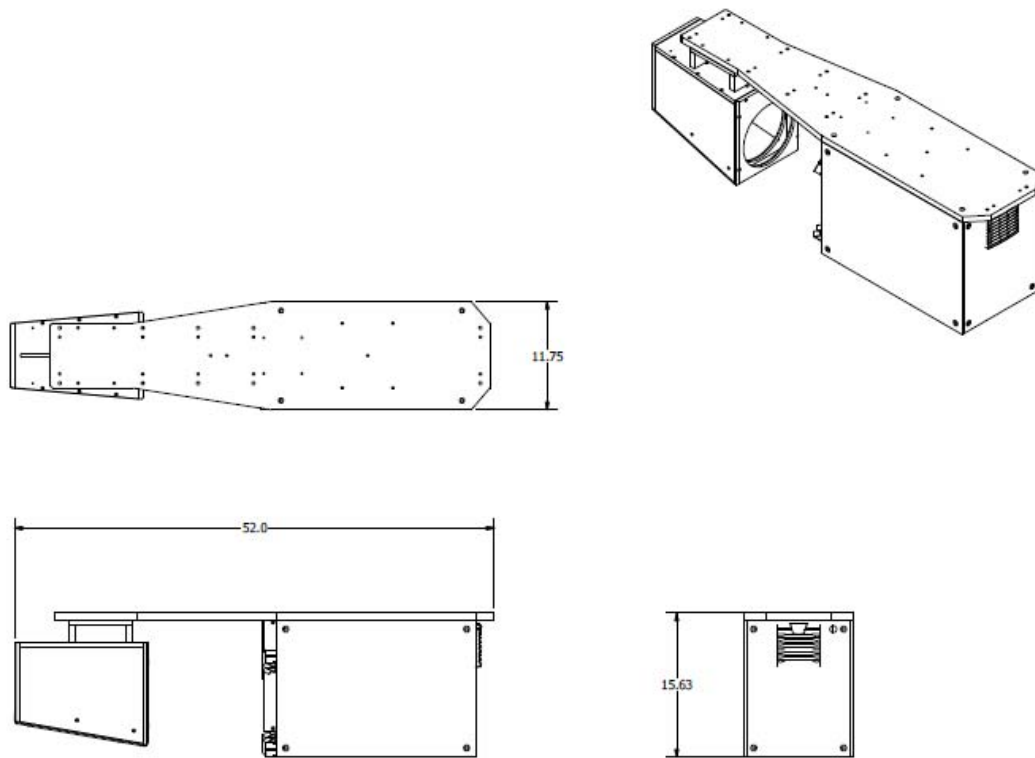
## Technical Specifications

Model #:	VGSIMS-10X	VGSIMS-20X
Equivalent Magnification:	10X	20X
Optical Field-Of-View:	3.60" H x 2.17" V (4.20" Diag.) 91.44 mm H x 55.12 mm V (106.68 mm Diag.)	2.00" H x 1.24" V (2.35" Diag.) 50.80 mm H x 31.50 mm V (59.69 mm Diag.)
Optical Working Distance:	11.00" (279.6 mm)	8.98" (228.0 mm)
Optical Depth-Of-Field:	5.7" (145 mm)	1.8" (45 mm)
Optical Accuracy:	+/- 0.000 3" (+/- 7.5 um)	+/- 0.000 15" (+/- 4 um)
Built-in Illumination:	<ul style="list-style-type: none"><li>• Transmitted back illumination</li><li>• Reflected off-axis illumination</li><li>• Reflected coaxial illumination</li></ul> All illumination is LED-based	
Camera Resolution:	9 MegaPixel	
Ethernet Ports:	2 (1 for TCP/IP controller communication & 1 for general network connectivity)	
Digital I/Os:	24 "high-drive" 0-5V I/Os (8 inputs & 16 outputs)	
Power requirements:	110V, 10 Amps (single standard power cord)	

Note: specifications subject to change without notice.

VisionGauge® is applicable across a wide range of industries, including:

- Medical
- Aerospace
- Power & Energy
- Automotive
- 3D Printing
- Military & Defense
- Extrusions
- Cutting tools
- Grinding
- General Machining
- Etc...



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