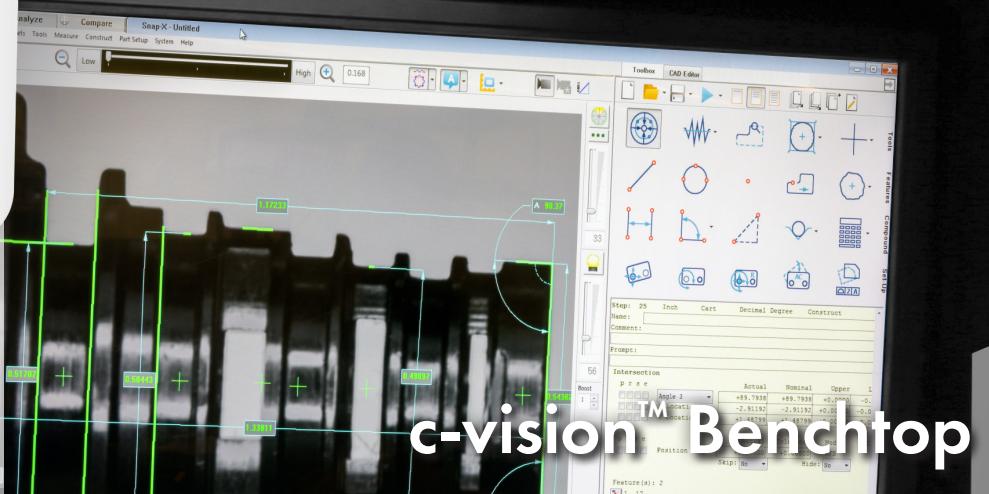




c-vision

c-vision Video Contour Projector®



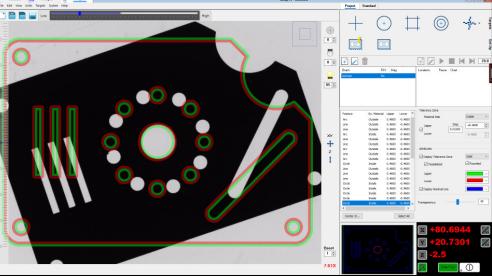
c-vision Benchtop, the ultimate shop floor video contour projector, has the largest measuring range in its class. c-vision Benchtop offers:

- Accurate Image/Low Distortion –** Provided by the telecentric, wide field dual magnification optical system with advanced digital imaging technology. The AccuCentric® assembly automatically compensates when switching between magnifications.
- Rugged Design –** The motorized XY table motion is driven by precision linear scales and fine adjusters. All LED illumination provides ultra-bright, long life. The helix stage is perfect for checking threads, and optional swing-away lamphouse provides agility in loading larger parts.
- Measure-X®: Powerful Software –** Display standard and custom overlay charts in Compare mode; Launch Measure mode for fully automatic video measurement; perform GD&T fitting in Analyze mode.

## Easy to Use, Dual-Magnification Benchtop Video Contour Projector

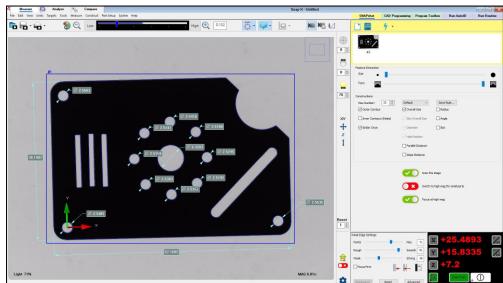


Rugged horizontal optical comparator, compact footprint that uses very little floor space. Shown with optional LED ring light.



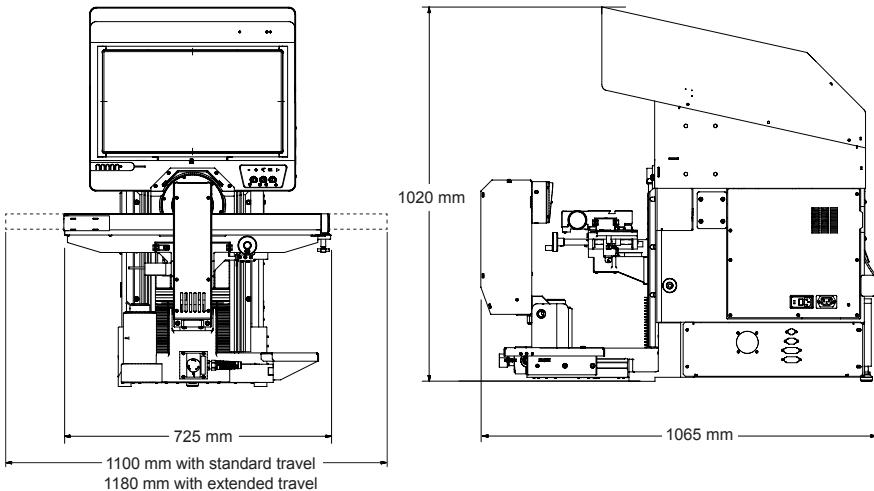
### Measure-X Compare Software

Measure-X Compare software provides a range of standard comparator charts for virtual gaging such as centerline and radius, as well as custom charts based on the part CAD design.



### Measure-X Measure Software

Measure-X Measure software provides fully automatic video measurement.



System Weight: 270 kg  
Shipping Weight: 325 kg

	Standard	Optional
<b>XYZ Travel</b>	380 x 150 x 50 mm	450 x 150 x 50 mm
<b>XY Scale Resolution</b>	1 $\mu$ m	0.5 $\mu$ m
<b>Drive System</b>	Motorized with variable speed joystick control and manual fine adjustment	
<b>Worktable</b>	Hard coat anodized aluminum worktable, 510 mm x 130 mm, with dovetail fixturing slot with 30 kg load capacity	
<b>Helix Angle Range</b>	$\pm 7.5^\circ$ with pivoting worktable assembly and zero stop	
<b>Throat Clearance</b>	250 mm	
<b>Optics</b>	Dual magnification with six field of view sizes, fully telecentric, long depth of field, upright and fully corrected image	
<b>Illumination</b>	Green LED profile light with continuously variable intensity	Green LED oblique (dark field) ring illuminator with eight selectable patterns. Green LED through-the-lens surface light with continuously variable intensity control.
<b>Magnification Lenses</b>	<b>Low Magnification Lens</b> 80 mm Field of View (FOV) 20 mm Depth of Field (DOF) 100 mm Working Distance (WD)	<b>4x High Magnification Lens</b> 20 mm Field of View (FOV) 5 mm Depth of Field (DOF) 100 mm Working Distance (WD)
<b>Metrology Camera</b>	High density megapixel metrology camera	
<b>Software</b>	Measure-X Measure and Compare	Measure-X Analyze, Measure-X Offline, EVOLVE® SPC
<b>System Controller</b>	Standard system controller with networking and communication ports	
<b>Accessories</b>		Motorized rotary indexer; Calibration reticles; Swing away lamphouse; Ergonomic, motorized adjustable height stand; Steel weldment stand; Rotary vise; Staging centers and V-blocks
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 800 W	
<b>Safe Operating Environment</b>	15°-30° C, non-condensing	
<b>Rated Environment</b>	Temperature 18°-22 °C, stable at $\pm 1$ °C, max rate of change 1 °C/hour, max vertical gradient of 1 °C/meter; 30%-80% humidity; vibration <0.001g below 15 Hz	
<b>Stage Accuracy (E<sub>2</sub>)</b>	(7.5 + L/100) $\mu$ m	
<b>Field of View Accuracy (E<sub>2</sub>)</b>	Low Mag: 7.5 $\mu$ m High Mag 4x: 4.0 $\mu$ m	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as perpendicularly to the optical axis within 0.5 mm, and within 5.0 mm of best focus. Depending on load distribution, accuracy at maximum payload may be less than standard. This equipment complies with EMC directive EN IEC 61326-1, Class A.



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