

c-vision Benchtop

c-vision is the ultimate shop floor measuring system. Its rugged design and high load capacity put advanced automatic video measurement capability to work right where you need it.

- Telecentric dual magnification optical system
- Advanced digital imaging technology
- Shop hardened for harsh environments
- Fully automatic Measure-X[®] 2D measuring software

Benchtop Video Contour Projector[®]



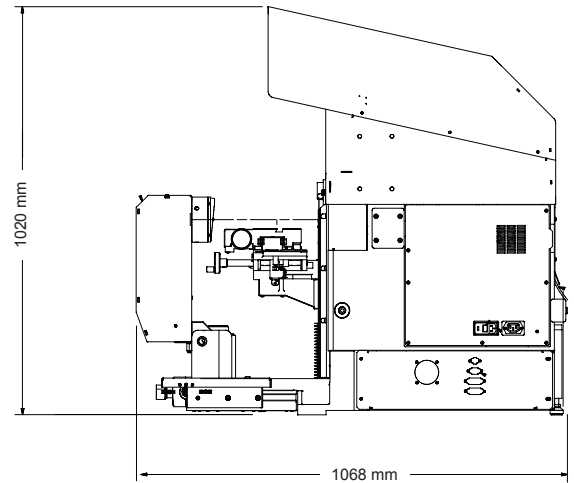
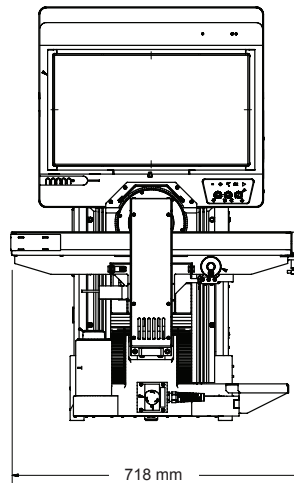
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Metrology Software:

- Measure-X® 2D metrology software
- Optional: MeasureFit®, SmartReport®, SmartTree™, CAD import option for Measure-X 2D, Measure-X 2D offline

Available Options and Accessories:

- Dual monitor optional user interface
- Bar code reader
- Fixture kit
- PSR Precision Stepper Rotary
- Overhead light shield
- Calibration standards
- Heavy duty steel weldment stand
- Ergonomic, motorized adjustable height stand
- CE mark available for systems delivered to Europe
- Moveable lamphouse
- Worktable dust cover
- Service and support contracts



Uncrated: 635 kg
Crated: 771 kg

	Standard	Optional
XYZ Travel Range	15" x 6" x 2"	18" x 6" x 2"
Helix Angle Range	±7.5° with pivoting worktable assembly and zero stop	
Throat Clearance	10.75"	
XY Scale Resolution	X: 0.00004" Y: 0.00002"	
XY Drive System	Motorized with variable speed joystick control	
Worktable	Hardcoat anodized aluminum with dovetail slot	
Recommended Maximum Load Capacity	60 lbs	
Optics	Dual Magnification, fully telecentric, long depth of field	
FOV Size	Low Mag: 3" diagonal High Mag: 0.75" diagonal	
Working Distance	6"	
Illumination	Green LED profile light and white LED through-the-lens surface light with continuously variable intensity control	Green LED oblique ring illuminator with eight selectable patterns
Camera	QVI® digital megapixel, black and white metrology camera	
Image Processing	256 gray level processing with 10:1 subpixel resolution	
System Controller	Windows® based PC with up to date processor and networking/communication ports	
Power Requirements	115/230 VAC, 50/60 Hz, 1Φ	
Rated Environment	18° - 22° C, stable at ±1° C; 30%-80% humidity; vibration <0.001g below 15 Hz	
Operating Environment, Safe	15° - 30° C	
Calibration Artifact	QVI FOV calibration reticle P/N 640133 for complete non-linear FOV and magnification calibration	QVI 25 intersection stage calibration reticle, P/N 428886
	Low Mag	High Mag
Feature Size Repeatability	5µm	2µm
Accuracy (E₂)*	10µm + L/150*	5µm + L/150*

*Where L = length in mm. XY axis artifact: QVI calibration reticle P/N 640133 positioned in the center of the FOV in the standard measuring plane. The standard measuring plane is defined as a plane 5mm above the maximum height of the worktable.



1174 Grange Hall Road
Beavercreek, OH 45430
Phone: (937) 426-9677 • Fax: (937) 426-4816
www.certifiedcomparator.com

