

c-vision^{Lite}

c-vision^{Lite} is a manual, easy to use video comparator. Precision optics and vCAD electronic overlay charts make comparative inspections easy.

- Three available optical lenses
- Single fixed lens or multiple lenses with optional push button selection
- Shop hardened and convenient for use on a workbench
- vCAD™ Virtual Chart Gage software - displays both standard and custom overlay charts
- Manual XY table motion with precision linear scales and fine adjusters. Motorized XY motion optional

Benchtop Video Contour Projector®



Shown with optional ring light and motorized XY worktable

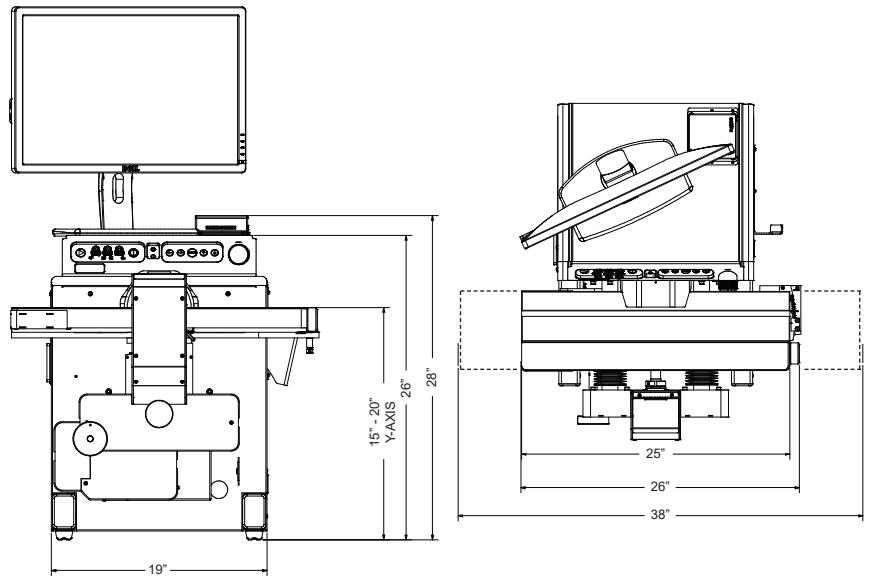


Metrology Software:

- vCAD™ virtual chart gage software
- Optional: SNAP-X® 2D FOV metrology software, MeasureFit, Smart Report, SmartTree

Available Options and Accessories:

- Barcode reader
- Universal fixture kit
- Rotary indexer
- Calibration standards
- Heavy duty steel weldment stand
- Ergonomic, motorized adjustable height stand
- Worktable dust cover
- Service and support contracts
- Motorized worktable (X,Y)



Uncrated: 355 lb Crated: 400 lb

	Standard	Optional	
XYZ travel range (in)	12 x 5 x 1.5		
Helix angle range	±6.5° with pivoting worktable assembly and zero stop		
Throat clearance (in)	8.0		
Worktable	Hardcoat anodized aluminum with dovetail slot		
Recommended maximum load capacity (lb)	45		
XY scale resolution (in)	0.00004	0.00002	
XY drive system	Manual with quick release x-axis and fine adjustment knobs in X and Y	Motorized with variable speed joystick control and manual fine adjustment	
Optics	Telecentric, upright and corrected image	Optional motorized three-lens turret	
Magnification Lenses and Field of View	Standard Magnification Lens 2-inch field of view 1.5 inch depth of field 4-inch working distance	Medium Magnification Lens 1-inch field of view 1-inch depth of field 4-inch working distance	High Magnification Lens 0.5 inch field of view 0.5 inch depth of field 4-inch working distance
Illumination	Green LED profile light with continuously variable intensity	Green LED oblique (dark field) ring light with eight selectable patterns and continuously variable intensity	
Camera	QVI® digital megapixel metrology camera		
Image processing	256 level grayscale processing with 10:1 subpixel resolution with optional software (available with optional SNAP-X 2D Software).		
System controller <small>*Controller configuration subject to change without notice.</small>	QVI micro system controller with Windows		
Power requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 400W		
Rated environment	65° - 72° F, stable at ± 2° F; 30%-80% humidity; vibration <0.001g below 15 Hz		
Operating environment, safe	60° - 85° F		
Field of view accuracy (in)	Low Mag: 0.0003 ^{1,2,3,4}	Med Mag: 0.0002 ^{1,2,3,4} High Mag: 0.00016 ^{1,2,3,4}	

¹Applies to the smallest field size at each optical magnification. ²XY axis artifact: QVI calibration reticle P/N 640298 or 640271. ³Calibration artifacts must be positioned in the standard measuring plane, defined as perpendicular to the optical axis within 0.02 inch, and within 0.20 inch of best focus. Weight not to exceed 11 lb equally distributed on the worktable. ⁴Applies to a thermally stable system calibrated and operated within the rated environment.



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