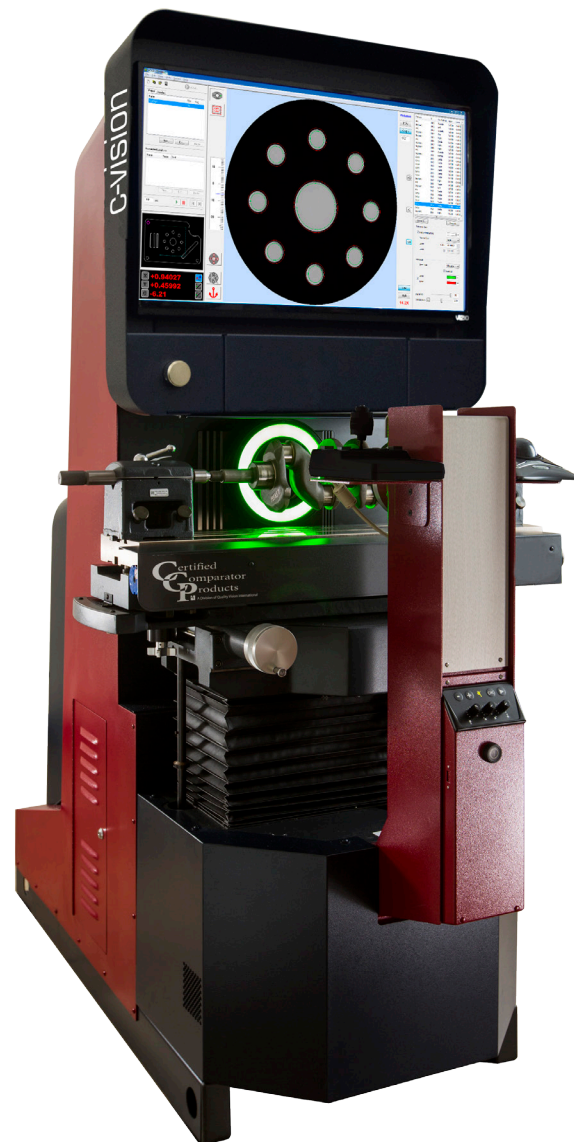


**c-vision** is the ultimate shop floor measuring system. Its rugged design and 250 lb load capacity put advanced automatic video measurement capability to work right where you need it.

- Telecentric dual magnification optical system with advanced digital imaging technology
- vCAD™ Virtual Chart Gage software - directly compare parts to CAD
- Motorized XY table with precision linear scales and manual fine adjusters
- Internal computer with keyboard mounted on a convenient fold-down tray
- Optional fully automatic Measure-X® 2D measuring software

High Capacity Video Contour Projector®



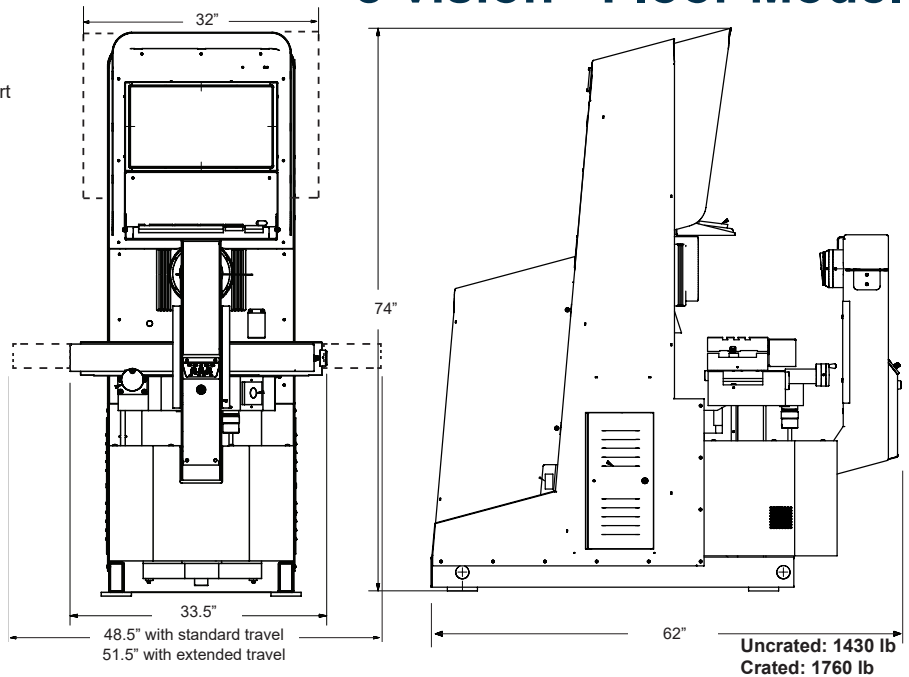
# c-vision™ Floor Model

## Metrology Software:

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

## Available Options and Accessories:

- Extended X-axis travel
- Dual monitor user interface
- 32" monitor
- Bar code reader
- Universal fixture kit
- Rotary indexer
- Calibration standards
- Swing away lamphouse
- Worktable dust cover
- Service and support contracts



|  | Standard  | Optional  |
|--|---|---|
| XYZ Travel Range (in)  | 15 x 9 x 2  | 18 x 9 x 2  |
| Helix Angle Range  |   | ±7.5° with pivoting worktable assembly and zero stop                                  |
| Throat Clearance (in)  | 16.0  |   |
| XY Scale Resolution (in)   | 0.00004   | 0.00002   |
| XY Drive System  | Motorized with variable speed joystick control  |   |
| Worktable  | Heavy duty cast iron nickel plated worktable, 32 x 8 in                                       |   |
| Recommended Maximum Load Capacity (lb)   | 250   |   |
| Optics   | Dual magnification, fully telecentric, long depth of field                                    |   |
| Camera   | QVI® High Density Megapixel Metrology Camera  | QVI Large Field Megapixel Metrology Camera  |
| FOV Size (in)  | Low Mag: 3 (diagonal)<br>High Mag: 0.75 (diagonal)  | Low Mag: 4 (diameter)<br>High Mag: 1 (diagonal)                                       |
| Depth of Field (in)  | Low Mag: 1.5<br>High Mag: 0.2   | Low Mag: 2<br>High Mag: 0.4   |
| Working Distance (in)  | 6.0   |   |
| Illumination   | Green LED profile light and green LED oblique ring illuminator with eight selectable patterns | Green LED through-the-lens surface light with continuously variable intensity control |
| Image Processing   | 256 level grayscale processing with 10:1 subpixel resolution                                  |   |
| System Controller  | QVI standard system controller with networking and communication ports*                       |   |
|  | *Controller configuration subject to change without notice.                                   |   |
| Power Requirements   | 100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1200W  |   |
| Rated Environment  | Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz         |   |
| Operating Environment, Safe  | 15° - 30° C   |   |
| Stage Accuracy (E <sub>2</sub> ) <sup>1</sup>  | (7.5 + L/100) μm  |   |
| Field of View Accuracy <sup>2</sup>  | Low Mag: 7.5 μm<br>High Mag: 4.0 μm   |   |
| <sup>1</sup> Where L = measuring length in mm. Applies to the highest digital magnification at high optical magnification. XY axis artifact: QVI calibration reticle P/N 640298 or 640271.<br><sup>2</sup> Applies to the highest digital magnification at each optical magnification. QVI calibration artifact P/N 640685 for low magnification and high magnification. Calibration artifacts must be positioned in the standard measuring plane, defined as perpendicular to the optical axis within 0.02 in, and within 0.20 in of best focus. Applies to a thermally stable system calibrated and operated within the rated environment. |   |   |



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