



## Large Capacity Measurement System

# RAM

SprintMVP large capacity measurements systems offer fully automatic, non-contact measurement for very large parts or groups of parts. An impressive list of standard features make these systems a great value. Trust SprintMVP systems for accurate, repeatable measurements.

- Moving bridge design convenient for part loading/unloading
- 3 different large capacity travel ranges to choose from
- Motorized zoom lens system with high resolution digital color camera
- Full function Measure-X® metrology software for fully automatic operation

| SprintMVP Measuring Ranges (mm) |      |      |      |     |
|---------------------------------|------|------|------|-----|
| Models                          |      | X    | Y    | Z   |
|                                 | 1500 | 900  | 1500 | 200 |
|                                 | 1550 | 1250 | 1500 | 200 |
|                                 | 1552 | 1500 | 1500 | 200 |



1783 W. University #135  
Tempe, AZ 85281  
E-Mail sales@tqscorp.com

Total Quality  
Systems Inc.

Inside Sales/Office 480-377-6422  
Fax 480-377-6426  
Todd direct 602-228-3863

SprintMVP 1500 model shown

# QVI® SprintMVP™ 1500|1550|1552

## Measurement Software

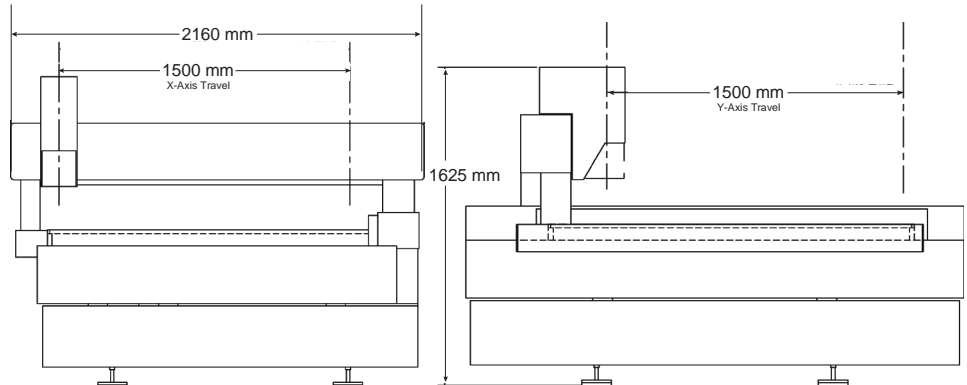
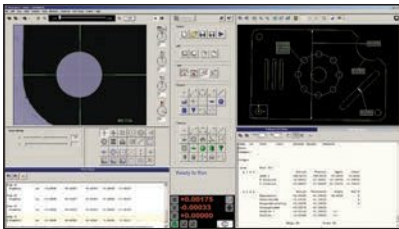
Measure-X® is the world's most popular metrology software. When paired with SprintMVP, Measure-X makes it easy to accurately measure fine features that require multi-step measurement routines, automatically combining autofocus, programmable lighting, and laser scanning.

## Optional Measurement Software

- MeasureFit®
- SmartReport® powered by QC-CALC™
- CAD interface
- SmartFeature® software for FDA compliant environments

## Miscellaneous Options

- Renishaw touch probe and change rack
- QVI® DRS laser
- Rotary indexer
- Digital I/O capability



SprintMVP 1552 Model Shown

**Crated System Weight:**  
**1500 Model: 2,590 kg**  
**1550 Model: 5,460 kg**  
**1552 Model: 6,380 kg**

|  |         | Standard  |  | Optional   |                      |                      |
|--|---------|---|--|--|----------------------|----------------------|
| X, Y, Z Travel   | 1500    | 900 x 1500 x 200 mm   |  | 900 x 1800 x 200 mm  | 900 x 2000 x 200 mm  | 900 x 1500 x 300 mm  |
|  | 1550    | 1250 x 1500 x 200 mm  |  | 1250 x 1800 x 200 mm   | 1250 x 2000 x 200 mm | 1250 x 1500 x 300 mm |
|  | 1552    | 1500 x 1500 x 200 mm  |  |  | 1500 x 2000 x 200 mm | 1500 x 1500 x 300 mm |
| X, Y, Z Scale Resolution                               |         | 0.5 µm  |  |  |                      |                      |
| Stage Drive System                                     |         | Moving bridge style XYZ transport, with dual Y-axis drives and scales   |  |  |                      |                      |
| Max Recommended Stage Load                             |         | 100 kg  |  |  |                      |                      |
| Working Distance                                       |         | 62 mm (with standard VectorLight™)  |  |  |                      |                      |
| Imaging Optics   |         | 6.5:1, 10 position motorized zoom lens  |  |  |                      |                      |
| Lens Attachments                                       |         | 0.5X, 0.75X, 1.5X, 2.0X   |  |  |                      |                      |
| Field of View (mm)<br>*Highest available magnification | Low Mag | 9.1 mm diagonal   |  | High Mag*  |                      |                      |
|  |         | 0.6 mm diagonal   |  |  |                      |                      |
| Metrology Camera                                       |         | QVI® Digital, Megapixel Metrology Camera  |  |  |                      |                      |
| Magnification on 24" LCD Monitor                       |         | 24x to 370x on-screen digital/optical magnification standard with full feature Measure-X layout   |  | 12x to 1470x on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface |                      |                      |
| Illumination   |         | LED VectorLight™ (six rings, seven sectors), LED backlight, LED surface light (square-on)   |  | Full LED VectorLight™ (six rings, eight sectors) with surface light  |                      |                      |
| Controller   |         | Windows™ Controller with Speed/Bus Core i5 Processor, 4 GB RAM, 160 GB hard drive   |  | Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse                                  |                      |                      |
| Temperature  |         | 20 ± 1° C (rated), 15-30° C (safe operating)  |  |  |                      |                      |
| Power  |         | 100/240 VAC, 50/60 Hz, 1 phase, 100 W   |  |  |                      |                      |
| XY Area Accuracy (at 20°C) *1,3                        |         | E <sub>2</sub> : (5.0 + 8L/1000) µm (1500 Model)<br>E <sub>2</sub> : (5.5 + 8L/1000) µm (1550 Model)<br>E <sub>2</sub> : (8.5 + 8L/1000) µm (1552 Model)  |  |  |                      |                      |
| Z Linear Accuracy (at 20°C) *2,3                       |         | E <sub>z</sub> : (5.6 + 8L/1000) µm (for standard optics) (All Models)  |  | E <sub>z</sub> : (4.0 + 8L/1000) µm (with 2.0X lens attachment) (All Models)                                     |                      |                      |
| Notes:   |         | 1. Where L = length in mm, with evenly distributed 40 kg load in the standard measuring plane, depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. XY axis artifact: 25 intersection grid reticle in the standard measuring plane. The standard measuring plane is defined as a plane that is 25 mm above the worktable. All optical accuracy specifications at maximum zoom lens setting.   2. Z axis artifact: QVI step gage or master gage blocks.   3. E <sub>z</sub> , Z axis linear and E <sub>xy</sub> , XY area accuracy standards are described in QVI Publication Number 790762. |  |  |                      |                      |



**Quality Vision International, Inc.**

Phone: +1 585 544 0450

Fax: +1 585 544 0131

raminfo@qvii.com

www.qvii.com/ram

