



# StarLite

A Manual Benchtop Measurement System

## Automatic Measurements Without Motors

The StarLite™ is an easy to use manual measurement system with fully automatic software. StarLite's robust stage, precision optics and high resolution digital color camera provide the accuracy you expect in a benchtop system.

## Features

- Precision compound X-Y stage
- 1.0 micron scales on X, Y and Z
- 3-axis measurement capability
- Digital camera coupled to a motorized zoom lens
- 35X to 535X digital/optical magnification
- LED ringlight and backlight Standard
- Accuracy to <5.0 micron



## Measurement Ranges (mm)

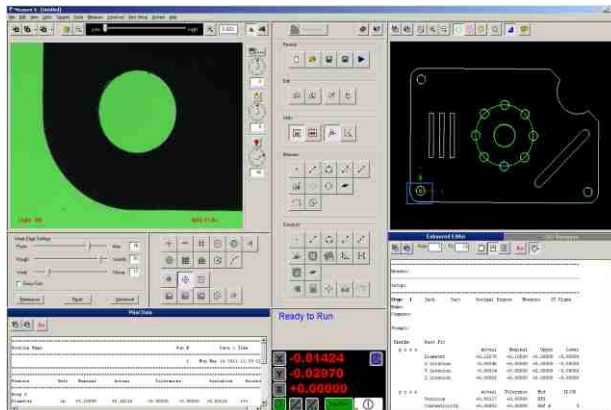
Models	X	Y	Z
StarLite 200	200	150	150
StarLite 250	300	150	150
StarLite 300	300	300	150



StarLite 300 with Measure-X software and optional monitor.

## Easy to Use Measure-X® Software

- Five different screen layouts available
- CompuFocus™ automatic focus tool for repeatable Z axis measurement by any operator
- XYZ Zero Set and Skew Alignment
- Full color imaging with image capture and storage
- Simple walk-up measurements or fully automatic routines
- Measurement routines fully compatible with motorized SprintMVP™ models



Measure-X metrology software provides a full feature set of functions for complete inspection programs.

Measure-X guides the user with innovative graphical icons and symbols.

CompuFocus™ ensures accurate, repeatable Z axis measurement by any user.

Measuring Unit	200	250	300
XYZ Travel, mm	200 x 150 x 150	300 x 150 x 150	300 x 300 x 150
XYZ Travel, in	8 x 6 x 6	12 x 6 x 6	12 x 12 x 6
Weight Approximate (kg/lbs)	89 / 196	91 / 202	127 / 280
System Dimensions, mm (XYZ)	495 x 535 x 838	570 x 535 x 838	570 x 950 x 838
System Dimensions, in (XYZ)	19 x 21.25 x 32.5	22 x 21.25 x 32.5	22 x 37.5 x 32.5

**X-Y Stage** Precision mechanical bearing compound stage, with fine adjustment knobs on a granite base, 23Kg load capacity.

**Scale resolution (XYZ)** 1.0 micron scale resolution on X, Y & Z

**Optics** Digital camera coupled to a motorized lens, manual focus control with coarse / fine adjustment knobs, working distance 70mm (with standard VectorLight™)

**Optional add-on lenses** 0.5x, 0.75x, 1.5x, or 2.0x

**Field of View** 9.2mm low mag. to 0.6mm high mag. (diagonal)

**Camera** Megapixel digital color camera

**Image Magnification on 20" LCD monitor** 35X to 535X digital/optical zoom

**Illumination** LED VectorLight (six rings, eight sectors), LED backlight, optional LED surface (square-on), optional full LED VectorLight (six rings, eight sectors) with surface light

**Controller Minimum specs** Quad-Core processor, 4 GB RAM, 160 GB hard drive, CD-ROM, parallel serial and USB ports, and Windows™ Operating System

**Metrology software** Measure-X® Metrology Software by QVI®

**Optional software** MeasureFit®, SmartReport® powered by QC-CALC™, CAD interface, and FDA Compliant SmartFeature®

**Temperature** 20° ± 1° C (Rated), 15° - 30° C (Safe Operating)

**Power** 100-240 VAC, 50/60 Hz, 1Ø, 300 W

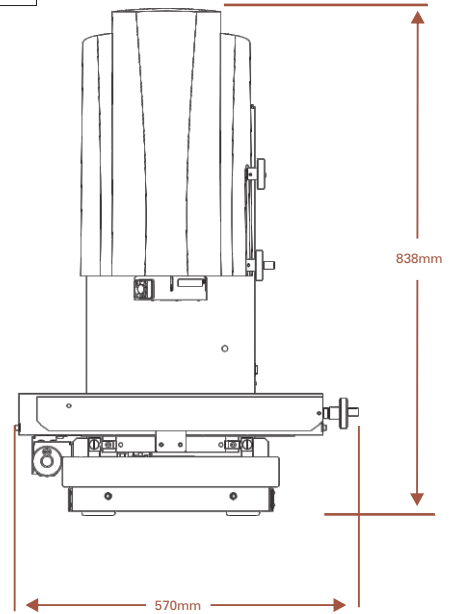
**Misc. options** Dust cover, footswitch, manual indexer, and calibration grid

**Measuring accuracy**  
 X,Y\*  $E_1 = (2.5 + 6L/1000) \mu\text{m}$  (All Models)  
 XY\*  $E_2 = (3.5 + 6L/1000) \mu\text{m}$  (200, 250)  
 $E_2 = (4.5 + 6L/1000) \mu\text{m}$  (300)

Z\*\*  $E_1 = (7.0 + 8L/1000) \mu\text{m}$  (All Models)

\* Where L = Length in mm, with evenly distributed 10 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.

\*\*Z axis artifact: QVI step gage or master gage blocks.



**300 Model Shown**

