

# 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, motorized zoom 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
- 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
- LED ringlight and backlight Standard
- Accuracy to <5.0 micron

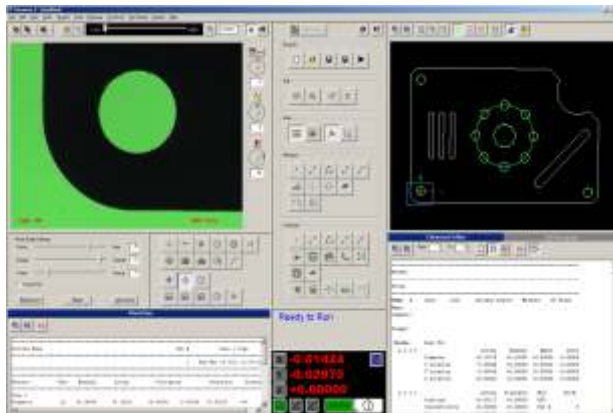


## Measurement Ranges (mm)

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

## 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.





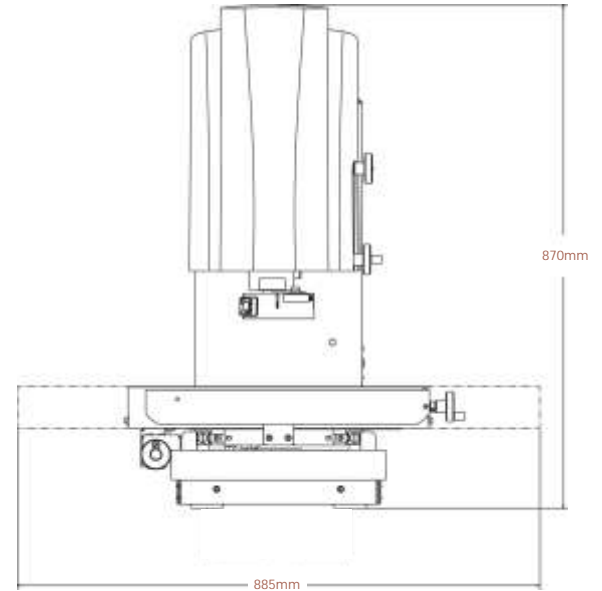
# Features & Technical Specifications

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)	685 x 650 x 870	885 x 650 x 870	885 x 950 x 870
System Dimensions, in (XYZ)	27 x 25.6 x 34.2	35 x 25.6 x 34.2	35 x 37.4 x 34.5

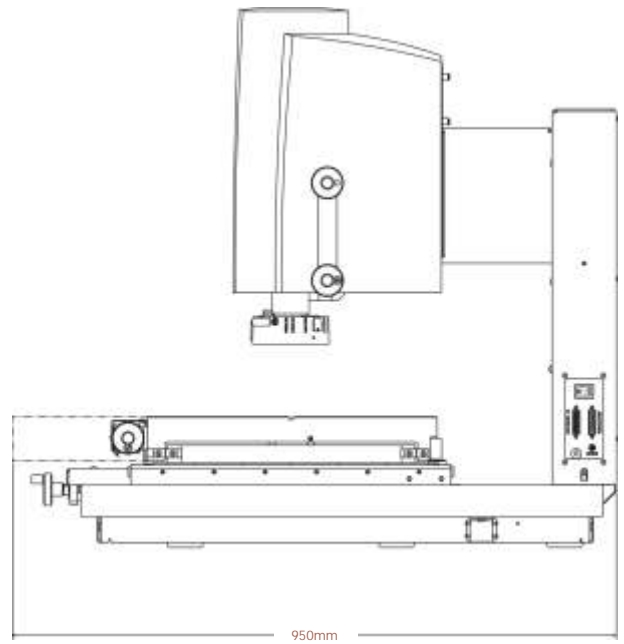
- X-Y Stage** Precision mechanical bearing compound stage, with fine adjustment knobs on a granite base, 23 kg max recommended load
- Scale resolution (XYZ)** 1.0  $\mu\text{m}$  (0.00004")
- Optics** Digital camera coupled to a motorized zoom lens, manual focus control with manual adjustment knobs, working distance 62mm (with standard VectorLight™)
- Optional add-on lenses** 0.5x, 0.75x, 1.5x, or 2.0x
- Field of View** 9.1mm low mag. to 0.6mm high mag. (diagonal)
- Camera** Megapixel digital color camera
- Image Magnification on 24" LCD monitor** 24X to 370X on-screen digital/optical magnification standard with full feature MX layout  
12X to 1470X on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface
- 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** Windows® PC
- Metrology software** Measure-X® Metrology Software by QVI®
- Optional software** MeasureFit®, SmartReport® powered by QC-CALC™, CAD interface, and SmartFeature® software for FDA compliant environments
- Temperature** 20° ± 1° C (Rated), 15° - 30° C (Safe Operating)
- Power** 100-240 VAC, 50/60 Hz, 1Ø, 100 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)  
 $E_2 = (3.5 + 6L/1000) \mu\text{m}$  (200, 250)  
 $E_2 = (4.5 + 6L/1000) \mu\text{m}$  (300)

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



300 Model Shown



\* Where L = Length in mm, with evenly distributed 5 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

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



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