



# StarLite

A Manual Benchtop Measurement System

## Automatic Measurements Without Motors

The StarLite™ 150 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.

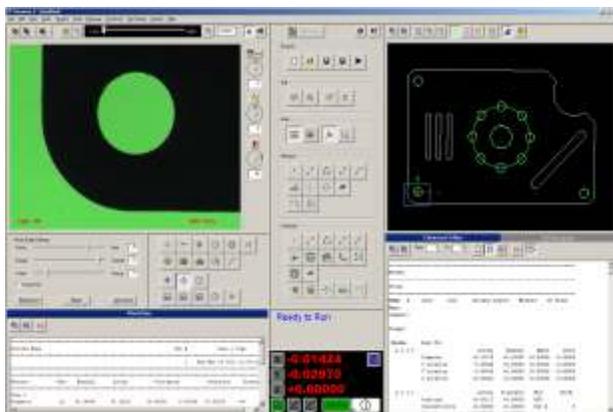


## Features

- 150 x 75 x 125mm X, Y, Z measuring range
- 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, backlight, and optional Coaxial Surface Light
- Accuracy to <5.0 micron
- User front control panel
  - XYZ Zero
  - Axis alignment
  - English/metric option
  - 3 controls for light settings

## 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.

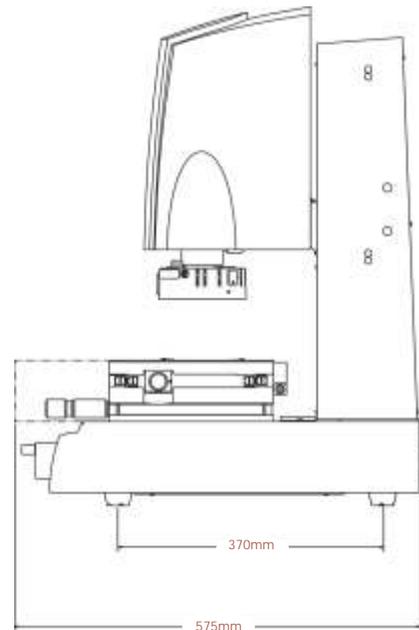
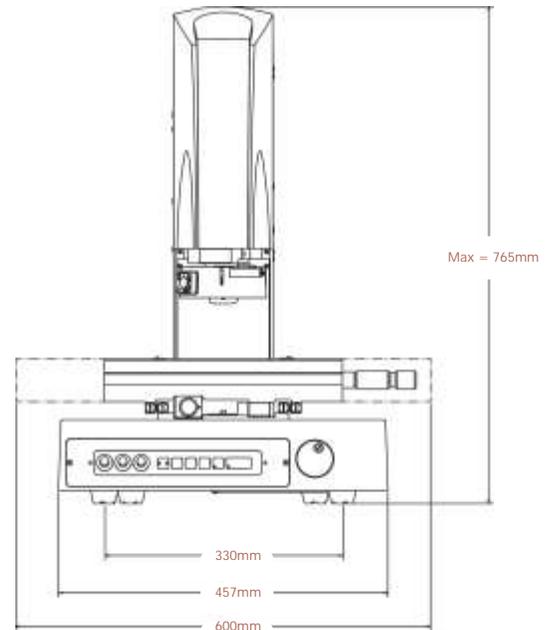
CompuFocus™ ensures accurate, repeatable Z axis measurement by any user.



# Features & Technical Specifications

<b>X-Y Stage</b>	Mechanical bearings with both coarse and fine X,Y position adjustment. 7 kg maximum recommended load
<b>Z Stage</b>	Front mounted Z position adjustment, 62mm working distance (with standard VectorLight™)
<b>Scale resolution (XYZ)</b>	1.0 μm (0.00004")
<b>Front Panel Controls</b>	XYZ zero set, with enter point button and skew alignment; illumination controls
<b>Optics</b>	Digital camera coupled to a motorized zoom lens, manual focus control with manual adjustment knobs, working distance 62mm (with standard VectorLight™)
<b>Optional add-on lenses</b>	0.5x, 0.75x, 1.5x, or 2.0x
<b>Field of View</b>	9.1mm low mag. to 0.6mm high mag. (diagonal)
<b>Camera</b>	Megapixel digital color camera
<b>Magnification on 24" LCD monitor</b>	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
<b>Illumination</b>	LED VectorLight (six rings, eight sectors), LED backlight, optional LED surface (square-on), optional full LED VectorLight (six rings, eight sectors) with surface light
<b>Controller</b>	Windows® PC
<b>Metrology software</b>	Measure-X® Metrology Software by QVI®
<b>Optional software</b>	MeasureFit®, SmartReport® powered by QC-CALC™, CAD interface, and SmartFeature® software for FDA compliant environments
<b>Temperature</b>	20° ± 1° C (Rated), 15° - 30° C (Safe Operating)
<b>Power</b>	100-240 VAC, 50/60 Hz, 1Ø, 100 W
<b>Misc. options</b>	Dust cover, footswitch, optical accessory kit, manual indexer, and NIST traceable 25 intersection reticle
<b>Measuring accuracy</b>	X,Y* $E_1 = (3.5 + 6L/1000) \mu\text{m}$ XY* $E_2 = (4.5 + 8L/1000) \mu\text{m}$  Z** $E_1 = (7.0 + 8L/1000) \mu\text{m}$

Measuring Unit	150
XYZ Travel, mm	150 x 75 x 125
XYZ Travel, in	6 x 3 x 5
Weight Approximate (kg/lbs)	43 / 95
System Dimensions, mm (XYZ)	600 x 575 x 765
System Dimensions, in (XYZ)	23.6 x 22.6 x 30



\* 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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