



# StarLite

A Manual Benchtop  
Measurement System

150

## Automatic Measurements Without Motors

The StarLite™ 150 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.

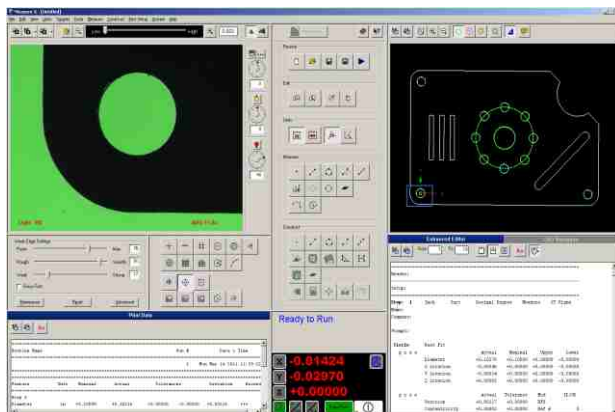
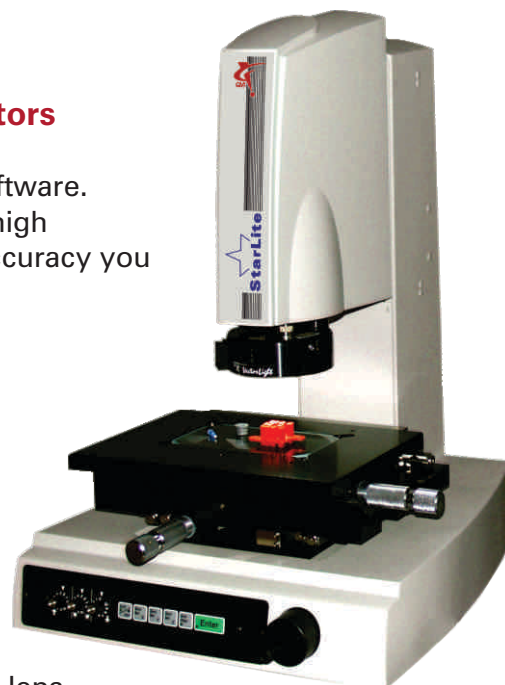
## Features

- 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
- 35X to 535X digital/optical magnification
- LED ringlight, backlight, and optional Coaxial Surface Light
- Accuracy to <5.0 micron

StarLite 150 with Measure-X metrology software, computer, with optional LCD monitor, keyboard and mouse.

## 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 Coarse/Fine X,Y position adjustment. 7 Kg load capacity. XYZ Zero Set, with Enter Point button and Skew Alignment.
<b>Z Stage</b>	Front mounted Z position adjustment, 70mm 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
<b>Optional add-on lenses</b>	0.5x, 0.75x, 1.5x, or 2.0x
<b>Field of View</b>	9.2mm low mag. to 0.6mm high mag. (diagonal)
<b>Camera</b>	Megapixel digital color camera
<b>Magnification on 20" LCD monitor</b>	35X to 535X digital/optical zoom
<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 Minimum specs</b>	Quad-Core processor, 4 GB RAM, 160 GB hard drive, CD-ROM, parallel serial and USB ports, and Windows™ Operating System
<b>Metrology software</b>	Measure-X® Metrology Software by QVI®
<b>Optional software</b>	MeasureFit®, SmartReport® powered by QC-CALC™, CAD interface, and FDA Compliant SmartFeature®
<b>Temperature</b>	20° ± 1° C (Rated), 15° - 30° C (Safe Operating)
<b>Power</b>	100-240 VAC, 50/60 Hz, 1Ø, 300 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* $E_1 = (3.5 + 6L/1000) \mu m$ XY* $E_2 = (4.5 + 8L/1000) \mu m$  Z** $E_1 = (7.0 + 8L/1000) \mu m$

\* 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.

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)	457 x 560 x 788
System Dimensions, in (XYZ)	18 x 22 x 28.75

