# StarLite™ 200|250|300

## Benchtop Measuring Machine

StarLite 200, 250, 300 models offer high performance on the workbench. StarLite systems feature reliable motorized zoom optics and high resolution digital cameras to provide the accuracy you need.

- 3-axis (X, Y, Z) measurement capability with optional motorized autofocus

- Digital megapixel color camera coupled with a motorized zoom lens

- LED backlight and VectorLight™ programmable LED ring light with 6 rings and 8 sectors

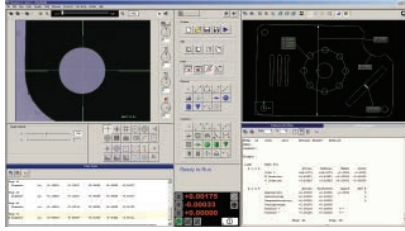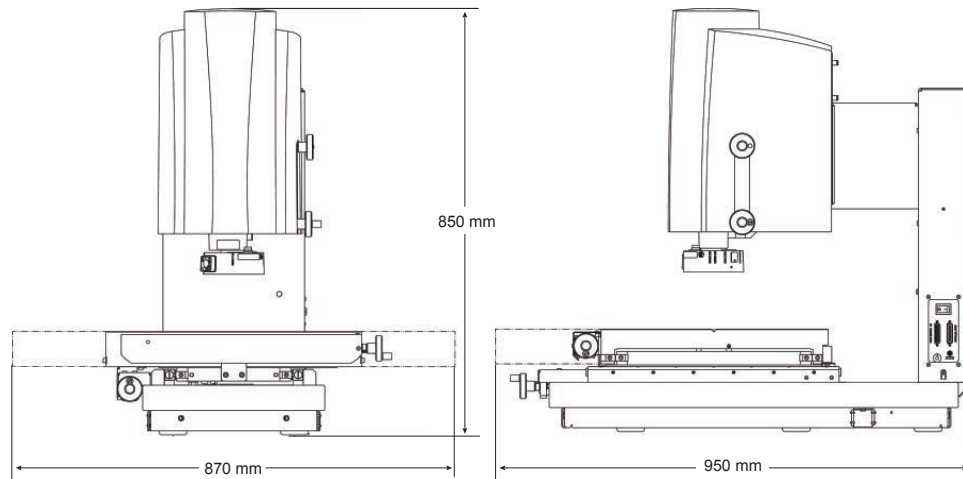| | StarLite Measuring Ranges (mm) | | | |
|---|---|---|---|---|
| Models | | X | Y | Z |
| | 200 | 200 | 150 | 150 |
| | 250 | 300 | 150 | 150 |
| | 300 | 300 | 300 | 150 |



StarLite 300 model shown

## Measurement Software

Measure-X® is the world's most popular metrology software. Measure-X makes it easy for QVI StarLite to accurately measure fine features that require multi-step measurement routines. All measurements are fully automatic. Measure-X guides the user to position each feature using the manual stage controls.

# StarLite™ 200|250|300

StarLite 300 Model Shown

850 mm
870 mm
950 mm

System Weight:
200 Model - 120 kg
250 Model - 120 kg
300 Model - 160 kg

| | | Standard | Optional |
|---|---|---|---|
| X, Y, Z Travel | 200 | 200 x 150 x 150 mm | |
| | 250 | 300 x 150 x 150 mm | |
| | 300 | 300 x 300 x 150 mm | |
| X, Y, Z Scale Resolution | | 1.0 µm | |
| Stage Drive System | | Precision compound stage with manual fine adjustment knobs | Motorized Z axis with rotary control knob and programmable positioning |
| Max Recommended Stage Load | | 23 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 |
| Metrology Camera | | QVI Digital, Megapixel Color Metrology Camera | |
| Field of View *Highest available magnification | | Low Mag / High Mag* — 9.1 mm diagonal / 0.6 mm diagonal | |
| Magnification on 24" LCD Monitor | | 24x to 370x on-screen digital/optical magnification standard with full feature Measure-X layout | 12x to 740x on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface |
| Illumination | | LED VectorLight™ programmable ring light with 6 rings and 8 sectors<br>LED backlight | Option 1: LED VectorLight™ SP programmable ring light with 6 rings and 7 sectors, LED backlight, LED square-on surface light<br>Option 2: LED VectorLight™ SF programmable ring light with 6 rings and 8 sectors, LED backlight, LED square-on surface light (reduced working clearance) |
| Controller *Controller configuration subject to change without notice. | | QVI standard system controller with networking and communication ports* | Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse |
| Software | | Measure-X | MeasureFit®, SmartReport®, CAD interface, SmartFeature® software for FDA compliant environments |
| Miscellaneous Options | | | Optical accessory kit, manual rotary indexer, NIST traceable calibration artifact, footswitch, dust cover |
| Rated Environment | | Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz | |
| Power | | 100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 250W | |
| X,Y Linear Accuracy [1,2,3,4,5,6] | | $E_1$: (2.5 + 6L/1000) µm (All Models) | |
| XY Area Accuracy [1,2,3,4,5,6] | | $E_2$: (3.5 + 6L/1000) µm (200, 250 Models)<br>$E_2$: (4.5 + 6L/1000) µm (300 Model) | |
| Z Linear Accuracy [1,2,3,4,5,6] | | $E_1$: (7.0 + 8L/1000) µm | $E_1$: (5.0 + 8L/1000) µm (requires motorized Z-axis option) |

1. Where L = Measurement length in mm. | 2. With evenly distributed 5 kg load in the standard measuring plane. Depending on load distribution, accuracy at maximum recommended load may be less than standard accuracy. | 3. All optical accuracy specifications at maximum optical magnification at 1:1 digital pixel resolution. | 4. All specifications apply to a thermally stable system operated in the rated environment. | 5. Maximum rate of temperature change: 1° C per hour. | 6. Calibration artifacts are described in QVI publication number 790762.

Confidence. When Results Matter.™