Sprint MVP

A Large Capacity Video Measurement System

1500 - 1552

Automatic Large Area Measurement System

SprintMVP™ 1500 is an automatic, non-contact measurement system for large parts. An impressive list of standard features makes SprintMVP 1500 a great value, and a system you can trust for accurate, repeatable measurements.

Measurement Range (mm)

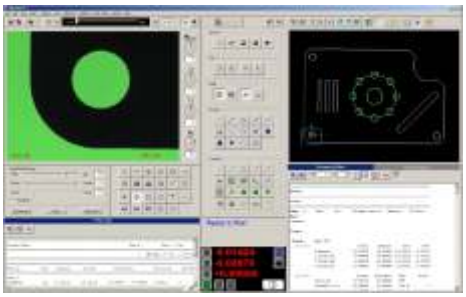
Models	X	Y	Z
SprintMVP 1500	900	1500	200
SprintMVP 1550	1240	1500	200
SprintMVP 1552	1500	1500	200

Features

- Solid granite base
- Motorized zoom lens system, 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 backlight, top light and high intensity ring light standard
- Motorized zoom optics and high resolution digital color camera
- Measure-X® metrology software - easily create and run automatic routines for any part

Software That Makes Measurements Simpler

QVI® Measure-X software makes it easy to measure parts or create automatic measurement routines. FeatureFinder® makes it easy to measure any feature in the video window instantly. If CAD files are available, just download the DXF and let Measure-X create the program for you. AutoCorrelate™ lets you stage and measure parts without fixturing.



Powerful Measure-X Metrology Software

Sprint MVP Features & Technical Specifications

Measuring Unit	1500	1550	1552
XYZ Travel, mm	900 x 1500 x 200	1240 x 1500 x 200	1500 x 1500 x 200
XYZ Travel, in	35 x 59 x 8	49 x 59 x 8	59 x 59 x 8
System Dimensions, mm (XYZ)	1680 x 2286 x 1625	1905 x 2540 x 1625	2159 x 2540 x 1625
System Dimensions, in (XYZ)	66 x 90 x 64	75 x 90 x 64	90 x 90 x 64
System Weight, kg/lbs	2590 / 5700	5460 / 12,000	6380 / 14,100
Shipping Weight, kg/lbs	3000 / 6600	6260 / 13,800	7280 / 16,100

Stage — Moving bridge style XYZ sensor transport, dual Y-axis drives & scales

Recommended Max Load — Max: 30 kg load evenly distributed on glass
Max: 100 kg load evenly distributed on stage rails

Extended Travel — Y-Axis up to 2000mm

Scale Resolution XYZ (dual On Y) — 0.5µm (0.00002")

Optics — Digital camera coupled to a motorized zoom lens, standard VectorLight™

Camera — Megapixel Digital Color Camera

Field Of View — 9.1mm low mag. to 0.6mm high mag. (diagonal)

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

Auxiliary Lenses (Optional) — 0.5x, 0.75x, 1.5x, 2.0x

Illumination — LED VectorLight (six rings, seven sectors), LED bac light, LED surface (square-on), optional full LED VectorLight (six rings, eight sectors)

Controller — Windows® PC

Software — Measure-X® Metrology Software by QVI®. Optional MeasureFit® Plus, SmartReport® powered by QC-CALC™, CAD interface, and SmartFeature® software for FDA compliant environments

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

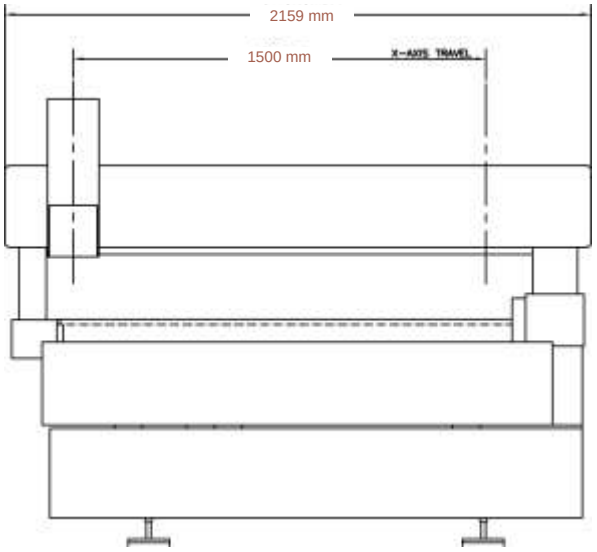
Power — 100-240 VAC, 50/60Hz, 1Ø, 1000 W

Misc. Options — Motorized rotary indexer; computer workstation stand

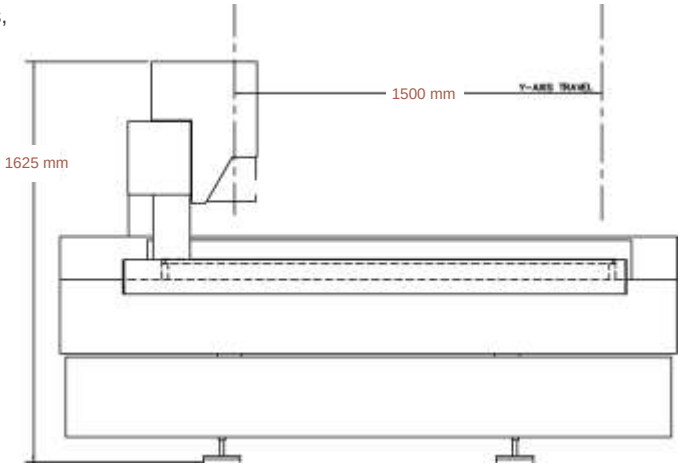
Sensor Options — TP20 touch probe, touch probe change rack, and QVI DRS laser

XY Accuracy* — XY* $E_2 = (5.0 + 8L/1000)$ µm (SprintMVP 1500)
$E_2 = (5.5 + 8L/1000)$ µm (SprintMVP 1550)
$E_2 = (8.5 + 8L/1000)$ µm (SprintMVP 1552)

Z** $E_1 = (4.0 + 8L/1000)$ µm (All Models)



1552 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.

RAM Optical Instrumentation

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