

I-360™

Hand-Held Probing & Scanning

Specifications for the I-360™ model are those of IntelliProbe 360™ and IntelliScan 360™ combined. Specifications for uncertainty are typical values achieved through normal use in a stable environment.

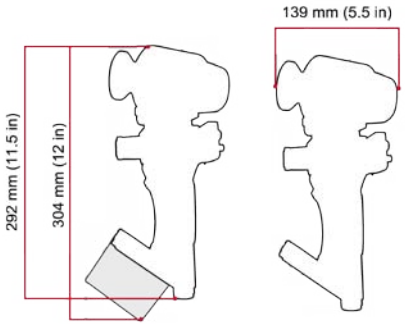
Definitions

3D Points Uncertainty ($3D^U$)
$3D^U$ is the deviation between a point measured with the I-360™ and the nominal position of that point.

Spatial Length Uncertainty (SL^U)
SL^U is the deviation between a length measured with the I-360™ and its nominal value.

Sphere Radius Uncertainty (R^U)
R^U is the deviation between a measured spheres radius and its nominal value where the reference sphere has a radius between 10 mm and 50 mm.

Surface Uncertainty (Sr^U)
Sr^U is deviation between a measured surface and its nominal value.



* I-360 hand-held probing and scanning models weigh approximately 1.14 kg (2.5 lbs)

I-SCAN

175mm Stand-off

	7 m	15 m	Above 15 m
Spatial Length (SL^U)	50 µm	80 µm	20 µm + 4 µm/m
Sphere Radius (R^U)	±50 µm	±75 µm	±(30 µm + 5) µm/m
Surface (Sr^U)	±100 µm	±110 µm	±(80 µm + 2) µm/m

I-PROBE

Vertical Probe Position (Top)
100mm Effective Stand-off (w/ 50mm Stylus)

	7m	15m	Above 15m
3D Points ($3D^U$)	75 µm	115 µm	40µm + 5 µm/m
Spatial Length (SL^U)	±45 µm	±85 µm	±(10µm + 5) µm/m
Sphere Radius (R^U)	±24 µm	±38 µm	±(10µm + 2) µm/m

Horizontal I-Probe
130mm Effective Stand-off (w/ 50mm Stylus)

	7 m	15 m	Above 15 m
3D Points ($3D^U$)	100 µm	140 µm	65 µm + 5 µm/m
Spatial Length (SL^U)	±50 µm	±90 µm	±(15 µm + 5) µm/m
Sphere Radius (R^U)	±30 µm	±45 µm	±(15 µm + 2) µm/m

Vertical I-Probe (Bottom)
310mm Effective Stand-off (w/ 50mm Stylus)

	7 m	15 m	Above 15 m
3D Points ($3D^U$)	125 µm	165 µm	90 µm + 5 µm/m
Spatial Length (SL^U)	±65 µm	±105 µm	±(30 µm + 5) µm/m
Sphere Radius (R^U)	±34 µm	±50 µm	±(20 µm + 2) µm/m

Automated Precision Inc.
www.apisensor.com

15000 Johns Hopkins Dr. | Rockville, MD 20850 | 1-800-537-2720 | info@apisensor.com | www.apisensor.com