

The world leader in advanced metrology solutions

INTELLIPROBE 360

The IntelliProbe 360™ is a breakthrough accessory for the API Laser Tracker3™. It is a portable, hand held device which can measure hidden points with high accuracy at typical Laser Tracker ranges.

Easy To Hold, Easy to Use

The IntelliProbe 360 can be used to easily measure hidden points, and deep recesses that could not be measured with a standard SMR. Its unique, light-weight design makes it easy to pick up and easy to adjust to any working angle. With a full range of orientations, the operator can change probe angle or probe orientation at any time to better access a measured surface. There is an effectively unlimited acceptance angle!

Measure Longer

Unlike other probing devices, the IntelliProbe 360™ is able to take advantage of the large work envelope provided by modern Laser Trackers.

Applications

- ✓ Tooling, fixtures, and jigs
- ✓ Automobile body parts
- ✓ Molds and die cavities
- ✓ Alignment
- ✓ Surface contours
- ✓ Reverse engineering

The IntelliProbe 360 is available exclusively for use with the API Laser Tracker3™. Designed for portability and ease of use, the Laser Tracker3's™ advanced optical design translates to increased accuracy and measurement reliability. The Tracker3™ is designed to operate where the most benefit is realized...on the shop floor.

Specifications (Preliminary)

Range: 40 meters (with T3-40 or T3-60)

Pitch Angle: $\pm 40^\circ$

Yaw Angle: $\pm 360^\circ$

Roll Angle: $\pm 360^\circ$ unlimited

Flexible Orientation: 360° yaw and 360° roll provide effectively unlimited acceptance range of sensor head.

Tracking Speed: Greater than 2 m/s

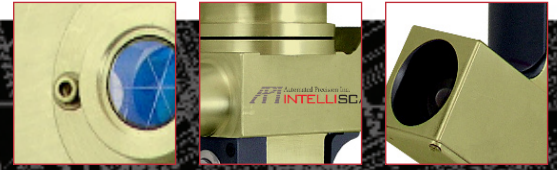
Weight: 1.4 kg

Accuracy: ± 0.1 mm or 10 ppm whichever is greater (Probe + Tracker)

Probing Modes: Static or Scanning

Probe Types: 6 mm dia (typical) Ruby or pointed hard tip





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INTELLISCAN 360

The IntelliScan 360 from Automated Precision is a handheld, non-contact geometry measurement solution, designed for manufacturing environments. This compact laser scanning system utilizes eye safe laser stripes and digital sensors to acquire 3D point clouds from many types of surfaces: vehicle, body panels, interior components, plastic parts, structural components, molds and dies. Because the IntelliScan 360 is non-contact by nature, applications on flexible or fragile parts can be completed easily and without concern.

With the API IntelliScan 360 you can perform:

- ✓ Reverse Engineering
- ✓ Fixture inspection
- ✓ Tool and die inspection
- ✓ In process inspection
- ✓ Part inspection and Quality Assurance

API IntelliScan 360 Systems are used on:

- ✓ Sheet metal
- ✓ Castings
- ✓ Body Inspection
- ✓ Injection molds
- ✓ Seating
- ✓ Mobile phones
- ✓ Shoes
- ✓ Dental brace
- ✓ Automobile parts
- ✓ Complex plastic parts

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Specifications (Preliminary):

Range:	40 meters (with T3-40 or T3-60)
Pitch Angle:	± 40°
Yaw Angle:	± 360°
Roll Angle:	± 360° unlimited
Flexible Orientation:	360° yaw and 360° roll provide effectively unlimited acceptance range of sensor head.
Tracking Speed:	Greater than 2 m/s
Weight:	1.4 kg
Scan rate:	18000 pts/sec
Standoff Distance:	150 mm
Measuring Depth:	75mm
Mean Scan Width:	100 mm
Resolution:	1µm
Point Density:	0.13 mm
Accuracy:	±0.05mm (Scanner Only)
Laser Safety:	Class II

