

METROLOGY GRADE HAND-HELD LASER SCANNER

Integrated with Radian Plus and Pro Laser Trackers, iScan3D's crossed blue laser lines are capable of scanning in any direction. Dual stylus-mounting locations for probing of hidden features provide measurement flexibility with precise results. iScan3D can scan a wide variety of surface textures, including high-gloss and contrast areas. It also provides unique probing ability for hidden-point measurements.

FEATURES & BENEFITS

- Large Scanning Volume iScan3D works in tandem with API's Radian Laser Trackers to scan large areas. Its rotating head provides flexibility by allowing complete 360° rotation.
- RFID Automatic probe stylus recognition uses RFID technology to automatically identify probe length and tip size of the stylus and eliminate user probe selection during measurements.
- Smart Buttons Pre-programmed buttons for better hardware and software interaction minimize user computer interaction with full measurement control at their fingertips.
- Blue Crossed-Lines Scanner Crossed laser lines provide the ability to scan a surface in any direction with ease and flexibility.
- Tactile Probing A variety of probe styli (up to 500mm supported) to suit every application provide the ability to probe profound features.
- **Dense Point Cloud** Blue lasers and high-resolution camera provide dense point cloud with fine details of the features in real-time.
- **Dynamic Stability** Advanced electronics, gyroscopes and level sensors compensate for small perturbations and hand vibrations during measurement.
- Controllerless The versatility of iScan3D makes large-scale scanning quick and simple.

APPLICATIONS

- Reverse Engineering
- Flush and Gap
- Surface Contours
- Large Body Assemblies
- Rapid Prototyping
- Mold and Die Cavities
- Compare CAD
- Fixture Inspection
- Tooling, Fixtures, and Jigs





PRODUCT SPECIFICATIONS

System Accuracy			
	2 -7 Meters	7-15 Meters	Above 15 Meters
Spatial Length (2σ)	± 50μm	± 80μm	± (20μm + 4μm/m)
Sphere Radius (2σ)	± 50μm	± 75μm	± (30μm + 4μm/m)
Surface (2σ)	± 60µm	± 70μm	± (80μm + 2μm/m)
Attributes			
Angle Acceptance	±45°(Pitch and Yaw) 360° Roll		
Sampling Frequency	100Hz		
Max. Scanning Speed	200,000 pts/sec		
Laser Line Width	150µm		
Laser Line Color	Blue		
Min. Point Spacing	70μm		
Stand Off Distance	170mm ±40mm		
Depth of Field	±40mm		
Field of View	110mm x 100mm		
Size and Weight	H 265mm x W 110mm x L 110mm / 1.03kg		
Working range	Up to 50m (using 50m cable)		
Autolock			
iVision Field of View	30° (diagonal)		
Acquisition Range	2m – 40m		
Environmental			
Operating Temperature	-10°C – 45°C		
Relative Humidity	10% – 95% (non-condensing)		
Power			
Power Supply Voltage	110v/230v ±10%		
Power Consumption	100w		

