

Orbiter 3D-360°



Quality assurance, tolerance validation, early surface defect detection.

Quality control and 100% piece inspection for precision manufacturing.

Optical (non contact) inspection.

Less than 2 minutes scan for 360° full view 3D capture.

Export cloud point data to standard commercial 3D software tools.

Rapidform® software options with camera

3D Inspection

... see, measure, model

Dimensional inspection

Achievable resolution of 50 µm

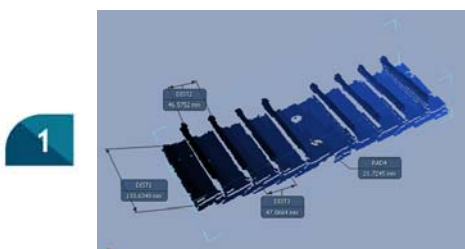
150 x 150 x 150 mm maximum inspection volume

White-light scanner

3D in 360 - Full 3D 360° scan system with rotary positioning

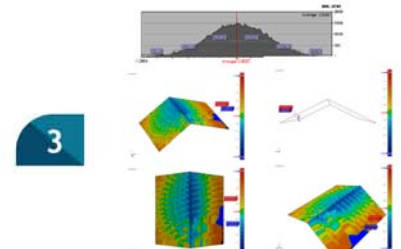
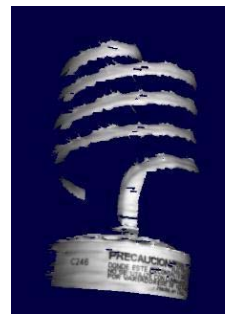
Full and dense 3D profiles in real time : 360° recovery in less than 2 minutes

Inspection of metal and plastic parts, medical devices, mechanical systems



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Orbiter3D-360 is a small lightweight full 3D profile capture system capable of 360 degrees recovery for surface inspection due to its object positioning system in an environmental case . Orbiter3D-360 is based on an advanced structured light 3D recovery algorithm, together with custom parallel processors for real-time 3D information recovery.

For other options or customization (recovery area, point cloud post-processing, in-process inspection), please inquire: 3d@prefixa.com

Technical specifications



Orbiter 3D-360 Full profile inspection

3D resolution	50 µm
Volume of inspection (Max)	150 x 150 x 150 mm (6 x 6 x 6 in)
Sensor resolution	Dual 5 MegaPixel CMOS sensor
Rotary system	Automated positioning
Rotary resolution	1° minimum step
Rotary speed	60 seconds full 360°
Maximum load weight	5.0 Kgs (11 lbs)
Measured 3D points	10 million points
Recovery time	Less than 2 minutes with 10 views
Accuracy	± 25 µm
Precision	3 sigma
Dimensions	220 mm(w) x 300 mm(h) x 700 mm(d) 8.6 in(w) x 11.8 in(h) x 27.5 in(d)
Weight	9 Kgs (20 lbs)
Power source	100-240 VAC, 40 W
Interface & Camera control	USB 2.0 interface, requires host PC computer
Operating System	MS Windows XP/Vista compatible
3D processing software	Rapidform® options available with camera



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Contact

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