

Orbiter 3D



Quality assurance, tolerance validation, early surface defect detection.

Quality control and 100% piece inspection for precision manufacturing.

Optical (non contact) inspection.

Less than 4 Seconds for 3D profile recovery.

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

Rapidform® configurations available

3D Inspection

... see, measure, model

Dimensional inspection

Achievable resolution of 50 μ m

75x75x75 mm to 500x500x300 mm inspection volume

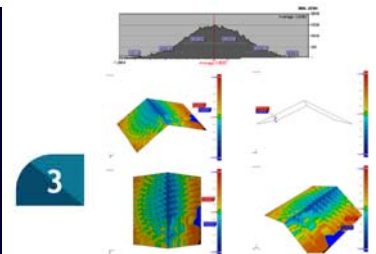
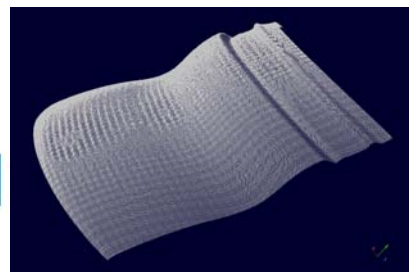
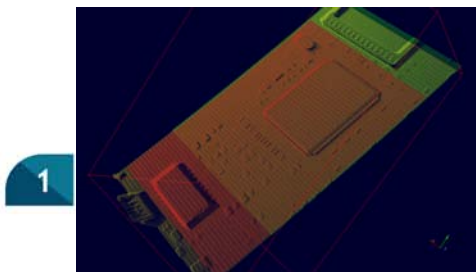
White-light scanner

Full and dense 3D profiles in real time

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

Cost effective for in-process inspection

Possible to operate multiple Orbiter3D cameras in parallel



Orbiter3D can capture, visualize, 3D model and measure surfaces for quality control applications. The camera is intended for dimensional inspection in production lines where metal and plastics parts, medical devices or any other assembly facility require in-line 3D inspection. Orbiter3D is based on an advanced white light 3D data recovery algorithm, together with custom parallel processors for real-time 3D information recovery. Orbiter3D can be used for 100% part inspection in critical devices where sampling and statistical methods are not effective enough.

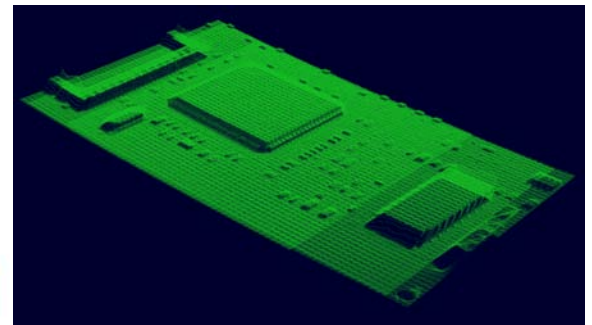
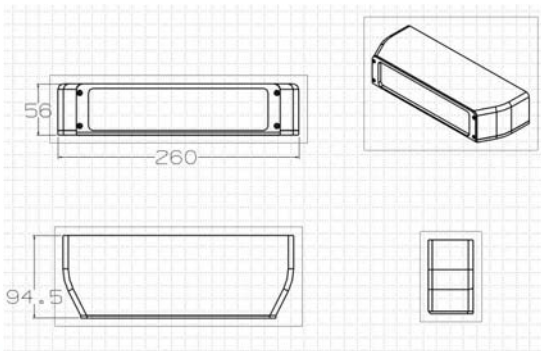
For other options or customization (recovery area, point cloud post-processing, in-process inspection), please inquire: 3d@prefixa.com

Technical specifications



Orbiter 3D - profile inspection camera

3D resolution	50 μ m
Volume of inspection (Range)	75 x 75 x 75 mm (3 x 3 x 3 in) to 500 x 500 x 300 mm (18 x 18 x 12 in)
Sensor resolution	Dual 5 MegaPixel CMOS sensor
Lens	Integrated and pre-calibrated
Illumination	Integrated digital projector
Work distance	360 mm - 460 mm (14 in - 18 in)
Measured 3D points	10 million points
Recovery time	Less than 4 seconds (250ms with Real-Time Module Option)
Accuracy	\pm 25 μ m
Precision	3 sigma
Dimensions	260 mm(w) x 56 mm(h) x 94 mm(d) 10.0 in(w) x 2.0 in(h) x 3.7 in(d)
Weight	1.2 Kgs (2.6 lbs)
Power source	100-240 VAC. Cons 20 W
Interface & Camera control	USB 2.0 and Ethernet, requires host PC computer
Operating System	MS Windows XP/Vista compatible
3D processing software	Rapidform® options available with camera



Contact

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