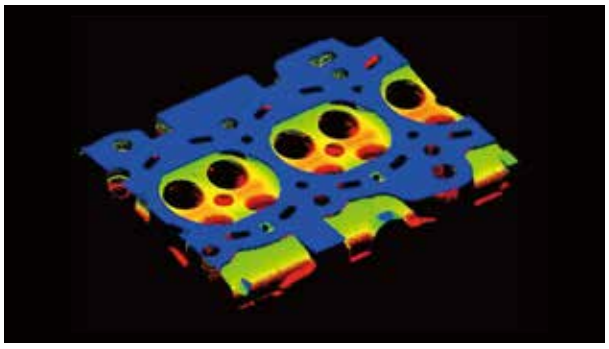
Preliminary

3D Optical Profiler
OPS-1000

The Santec OPS-1000 optical profiling system is designed for fast, high accuracy non-contact scans of 3D objects. The OPS-1000 scanning laser based system utilizes a novel interferometric approach to deliver the ultimate in signal sensitivity, capturing surfaces other profilers will miss.
Designed to support R&D and production application the OPS-1000 comes with intuitive control software allows the user to quickly configure scan geometries and export point cloud data for analysis.

Features

1 High Sensitivity
Minimum light detection sensitivity of 100dB
Dynamic Range >70dB



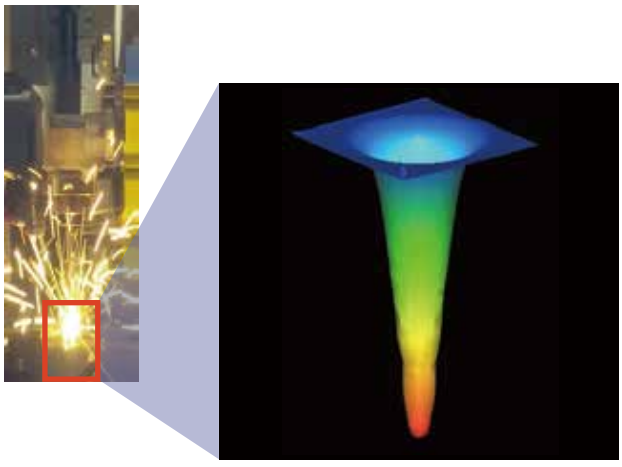
3D Scan of Cylinder Head

2 Single Beam Geometry
Single Beam Geometry minimizes structural interference within shapes and structures.

3 High Speed Measurement
OPS-1000 brings high speed measurement of 400,000 points per second for complete automatic inspection.

4 Long Measurement Range
The OPS-1000 may be configured up to a measurement range 1m.

5 Ambient Light Agnostic
OPS-1000 utilizes a coherent measurement principle; so is not affected by ambient light such as sunlight or stray light in a production environment, delivering reliable data. Shapes such as the keyhole formed during laser welding can be clearly measured using the OPS-1000.



Key Hole Shape

■ Applications

- 3D measurement of materials
- 3D detection of defects
- Fully automated profiling
- Real time process monitoring

■ Performance

		OPS-1000-100	OPS-1000-50	OPS-1000-6
Display Resolution [μm]	XY	0.1		
	Z	1	0.1	
Repeart Accuracy [μm]	XY	±25	±10	
	Z	±10	±1	
Measurement Range [mm]	XY	720	180	15
	Z	1000	32	32
Working Distance [mm]		1040	520	35
Measurement Speed [points/sec]		400,000	200,000	200,000

*Please note, these specifications are subject to change.

■ Website

https://www.santec.com/en/products/oct/3DOpticalProfiler/

For more information, Please access to this QR code

www.santec.com

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