

SITA

NEW

SITA *FluoScan* 3D

Automated cleanliness inspection
of part surfaces



- ✓ **Detection of fluorescent organic contamination**
- ✓ **Measurement on three-dimensional surfaces**
- ✓ **Flexible adaption towards new measuring tasks**

SITA FluoScan 3D is an automatic measuring system for cleanliness inspection of parts which uses proven SITA fluorescence sensor technology combining advantages of hand-held measuring devices and inline measurement technology for flexible use in your laboratory:

- Measurement of three-dimensional surfaces with 3-axis system
- High reproducibility due to precise positioning without interference of user and ambient light
- Measurement at process speed with high measuring resolution through high traversing speed and scanning rate
- Flexible measuring programs with predefined functions, configurable measuring sequences
- Easy teach-in directly at the part
- Multipart-Scan: Efficient measuring of several parts in one run

Application examples

- Automated inspection of die cast aluminium before bonding
- Inspection of soldering pads on printed circuit boards
- Monitoring of anti-corrosive layers
- Inspection of large metal parts before coating and printing
- Process analysis and optimization through determining the dispersion of contamination on part surfaces or analysis of test substrates



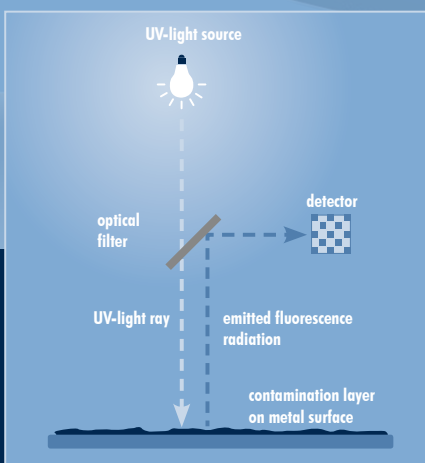
Technical data

Measuring range	(0...2,000) RFU *	Dimensions (WxDxH)	1.22 m x 1.15m x 2.00 m
Measuring deviation	max. 0.5% of measuring range	Weight	approx. 390 kg
Excitation	365 nm, max. 150 mW	Table surface	850 mm x 750 mm
Detection	460 nm	Traversing range	500 mm x 530 mm
Measuring distance	4.7 mm	Traversing speed	100 mm/s
Diameter measuring point	1 mm	Reproducibility	<0.1 mm
Scanning rate	50 Hz	Stroke	150 mm

* Relative Fluorescence Unit

further configurations upon request

Measuring principle



Typical contamination on surfaces in industrial manufacturing processes such as oils, greases or surfactants fluoresce when excited with ultraviolet light. The measured intensity of fluorescence radiation increases with the thickness of the contamination layer.

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