Sample Scanner

We help our customers to overcome today's cleanliness challenges in microtechnology. At Fastmicro, we believe you can accomplish breakthroughs in cleanliness control with fast, accurate and quantitative surface particle measurements.

Fastmicro enables process quality engineers to make reliable decisions on where and how to improve their cleanliness processes and deliver consistent quality products. And ultimately, achieve high equipment performance for their end users. To do this, we collaborate with the best to accomplish breakthroughs in cleanliness control.

Modular: fit for each production process

The modular Fastmicro Product Scanner can be customized to suit each production qualification process or to fit into a production line. This can include clean and automated handling: package openers for inspection and cleaning, filling stations, robot arms, an inspection spot and a port for cleaning.

The Fastmicro module allows for a scaled inspection surface to suit customer needs, without introducing extra imaging time and using limited floor space.

CONSISTENT MEASUREMENTS IN PROCESS

- 1. Fast: imaging in seconds on large surfaces
- Quantified: fit for qualification and monitoring in production, as well as in an R&D environment
- 3. Easy to operate: operator independent, even automated and clean handling. Your product stays clean: no contact, no contamination
- 4. **Accurate:** high-resolution measurement (quantity, position, size)
- Consistent: objective measurements, time after time
- 6. High throughput: processing within a minute

Direct measurements on product surface

The Fastmicro Product Scanner has been developed to measure surface particle contamination levels directly on a product's surfaces in any industry. The primary applications are in semicon (pellicles, reticles, wafers) and the display market.



The scanner has an unlimited scanning area due to its modular and scalable design.

The system can be customized, depending on the shape and position of the surface that needs to be tested. The scanner module is also available as a white label solution for system integrators.





Product Scanner

Specifications

Fast and high production throughput	 Imaging in seconds on surfaces of any size Processed in a minute, depending on the number of particles
Data output	 Analysis: Quantity, Position and Size of particles Annotated image with particle detection overlay, plus '3D' signal representation of any operator-selected particle Reporting: export function including KLARF and Excel Files (including standard bin sizes) Optional qualification report in UI and PDF, according to ISO standard 14644-9 Data exchange via USB, or via an optional ethernet option (for example connection to database through XML)
Easy to operate	 Operator independent Automated version available with filling stations, robot arms, package openers
Detection range	• Detection limit from 0.5 μm PSL particles
Reproducibility	 90% cumulative particle count, when replacing a sampler, with PSL particles from 0.5 μm Also as repeated result between scanners
Sizing and location accuracy	 Sizing accuracy within 20% with PSL particles Location accuracy 80 μm, location repeatability 30 μm
Clean: no contact - no contamination	No contact with measurement area
Requirements on product	Roughness Ra < 50 nm
Model	• FM-PS-PRS-V01



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