



# MICRO-SENSOR FOR CLEAN ROOMS

*Real-time optical detection of particles in the air*

## Technological benefits

### A safe solution

Safeguards the level of clean room contamination, see ISO standard (size and number)  
Particle collection surface: only mobile laser so no risk of particles detaching from the surface

### An accurate solution

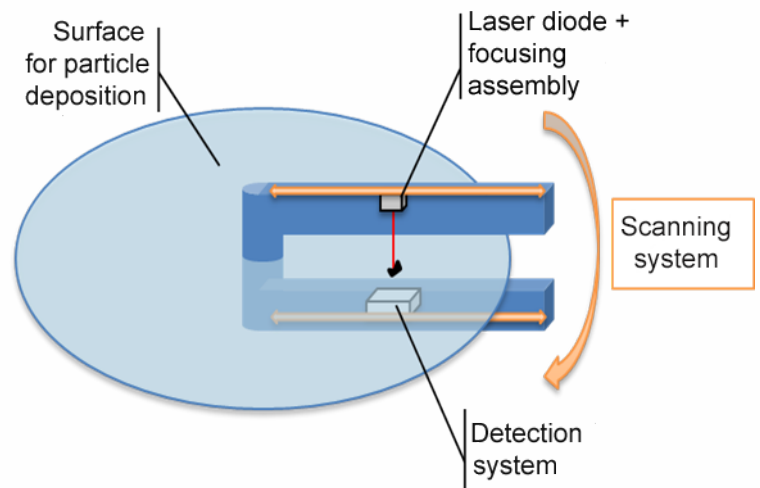
Equipment dimensions: to enable local measurement (of critical devices)  
Measurement of very fine particles: diameters between 1 and 20  $\mu\text{m}$

### Real-time monitoring

Real-time measurement of particulate surface contamination  
Information provided: number of particles, particle size and particle form factor.

### Optical detection

Power autonomy, wireless  
May be networked with other sensors



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## Commercial benefits

Guaranteed production  
Better production quality  
A secure environment

## Potential applications

Controlled-contamination zone: Clean rooms and White rooms  
Hospitals  
Sterile environments  
Real-time particle detection (contaminants, etc.)

## Invention overview

The invention is based on the principle of optical detection via transmission through a transparent particle collection surface. Optical detection is coupled to a bi-directional scanning system and a system enabling it to have power autonomy, to be wireless and to be networked with other sensors.