

# Particle Inspector by **EVT**

Particle contamination inspection

Resolution up to 8 micron/ pixel

Measurement area of 2700 mm<sup>2</sup>

Measurement of:

... particle dimensions

... deposited particle type

... time

... position on witness plate

... major and minor axes

Analyzes and identifies particles

ISO 14644

Up to VDI 2083

Witness plate cradle

Identifying 2D code on plate

Image digitization to:

... transfer it to PC or Laptop

... analyze it with EyeVision

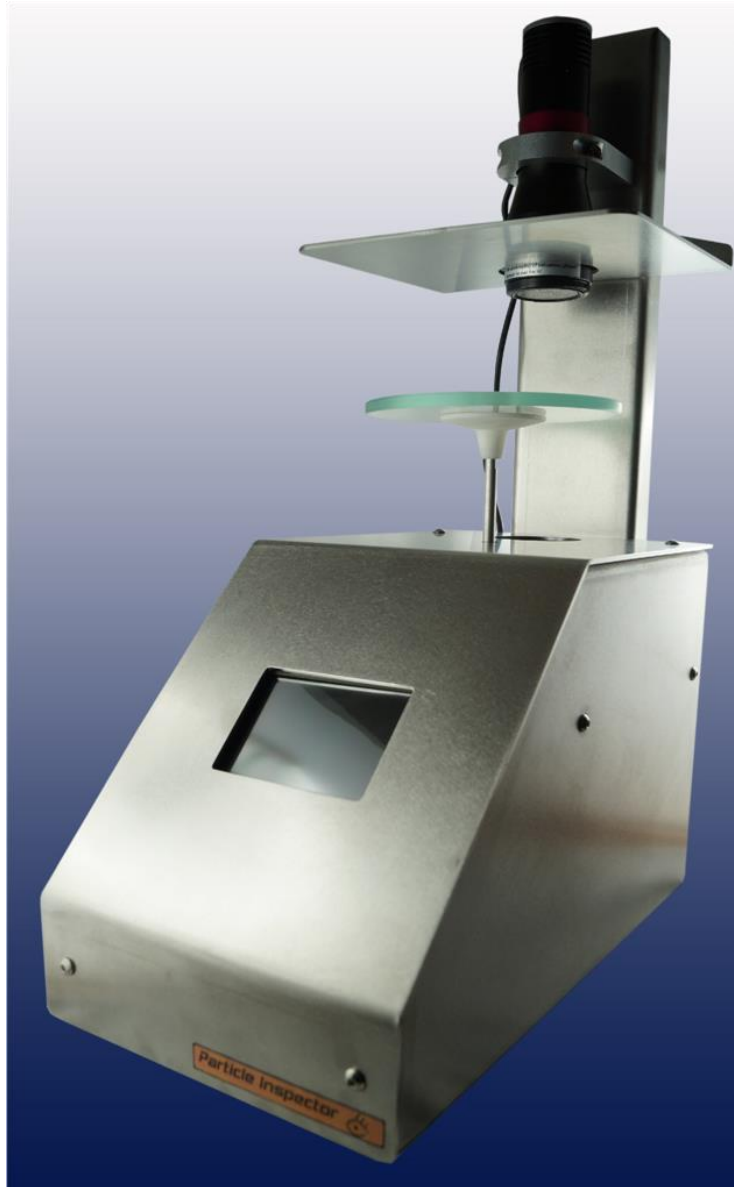
... process the data

... export it to info logging system

Proven measurement technique

Flexible

Easily expanded system



## **Specifications:**

- Resolution at up to 8 micron/ pixel
- Measurement time up to 60 seconds
- EyeVision machine vision software for analyzing and processing the image data
- Reproducibility up to 95% for 20 particles
- Measurement area up to 2.700 mm<sup>2</sup> (per witness plate)



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## The Particle Inspector by EVT – a must-have in all clean rooms

**1** For applications with an increased demand in cleanliness, EVT has developed the Particle Inspector.

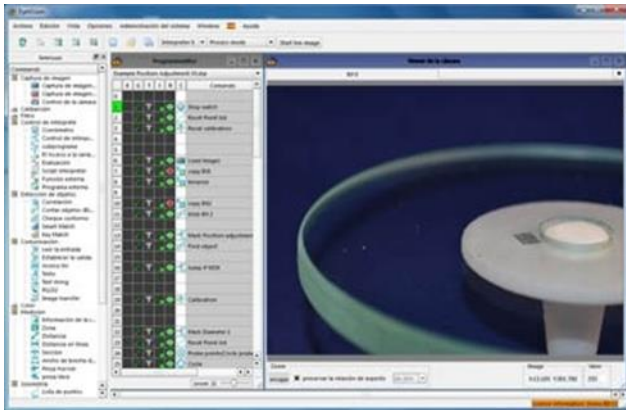
**3** As all clean room products the Particle Inspector is classified after ISO 14644 and are tested after VDI 2083.

**5** The Particle Inspector is a solution for measuring and collecting data about particle deposition at process-critical positions in the work environment. The deposition level and type of deposition is essential for effective surface cleanliness management.

**2** Applications ranging from production in microelectronics and precision engineering to life sciences and healthcare.

**4** With the Particle Inspector the levels of deposited dust, microscopic fibers, microbes and other contaminants can be detected.

## EyeVision Software – to analyze the images and process the data

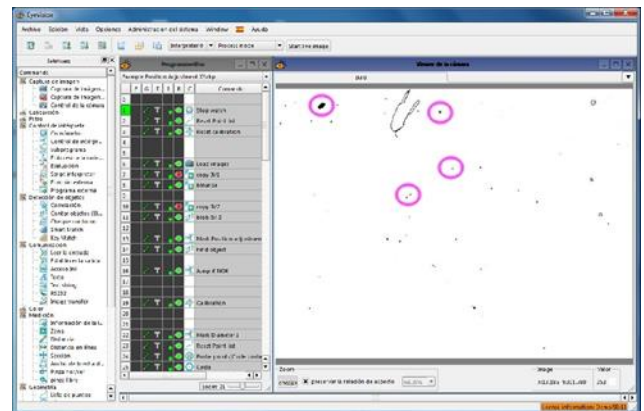


### Per Particle:

- Length and width (bounding box)
- Major and minor axes
- Particle area
- Particle type (fiber, microbes, etc.)
- Particle position on witness plate
- Capture actual samples of deposition particles to analyze and identify them

### Measurement Parameters:

- Reads witness plate ID (DMC)
- Particle count extrapolated to 10.000 mm<sup>2</sup>
- Measurement date, time and location
- Histogram of particles in particle size bins
- Measurement state (e.g. clean, exposed)
- Graphical display of P.D.C.
- P.A.C. (Percentage Area Covered)
- Immediate feedback OK or NOK
- P.D.C. (Percentage Deposition Class) (on P.D.C. or P.A.C.)
- Particle count



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