XPT-R Optical Particle Analysis System

Working principle: the probe including CCD camera and lighting system is looking onto a vibrating feeder which transports particles from the sample funnel. The images taken by the CCD camera are analysed and displayed online and results stored.

Complete system consists of a stainless steel probe with camera and light source, control cabinet for the probe, holder with vibrating feeder, computer and software.

Applications:

- Detection, counting and measurement of discolored particles and black-specs
- Meaurement of particle count, size and shape
- Food, pharma, polymers, chemicals
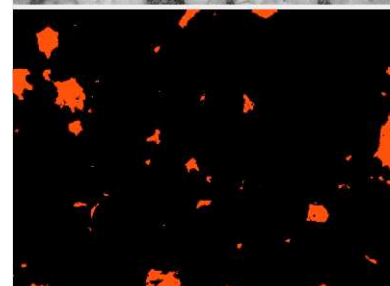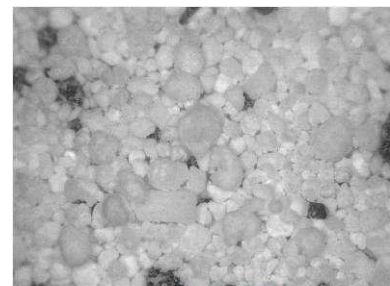
Measurement range: > 5 μm

Image frequency: 10 images/s analysed online

Example. washing powder: foto of the powder (above) and XPT original and analysed image (below)
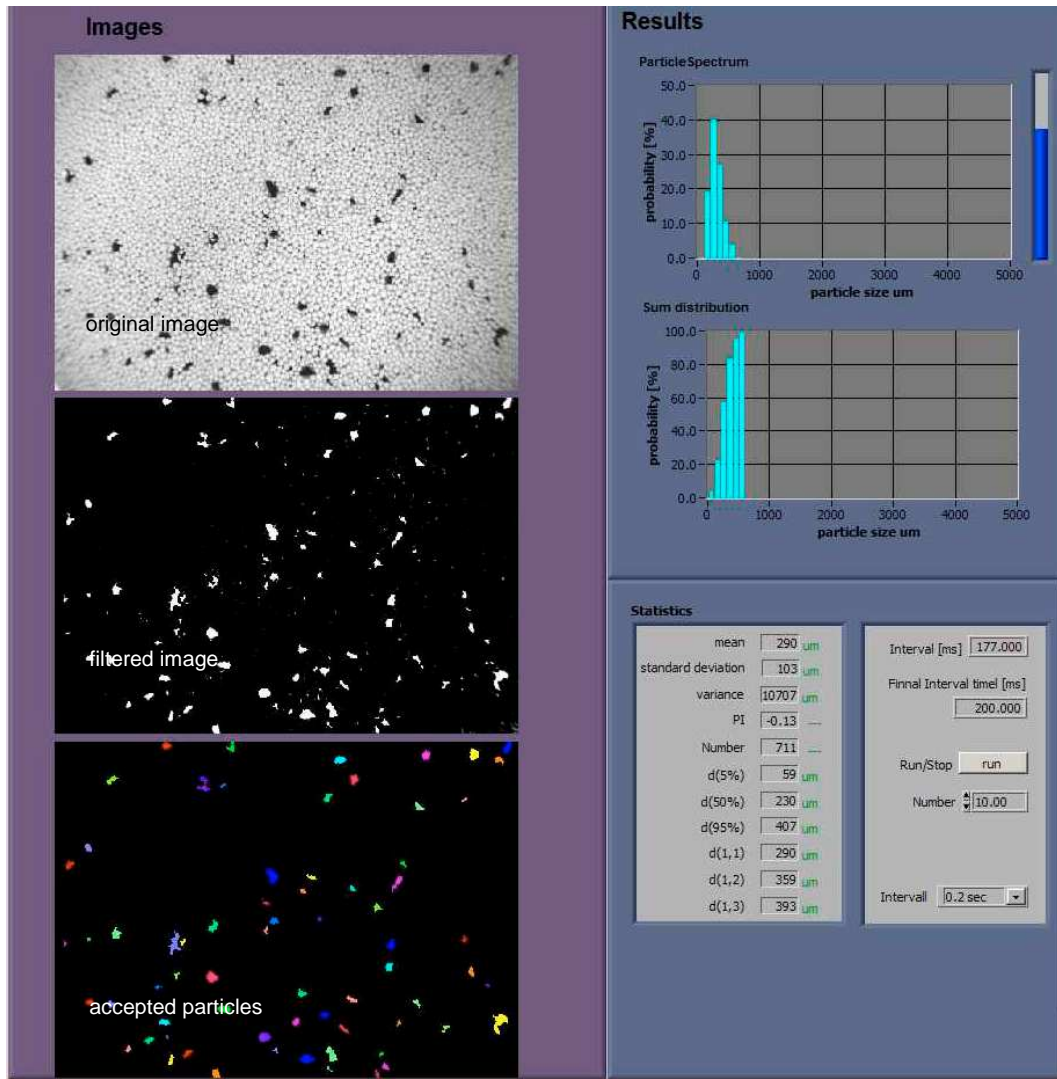
Technical data:

- Housing dimensions 300 x 300 x 120mm
- Probe diameter 60mm
- Resolution 1024 x 768 or 1392 x 1032 Pixel
- Material: stainless steel
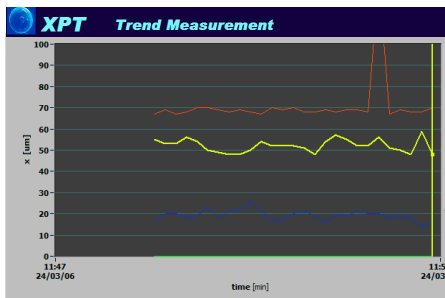- Probe holder: 175 x 270mm
- Power supply 115/230V

XPT **Optical Particle Analysis System**

XPT Software: online and-real time display of particle size, shape and count

Software:

- Library of image analysis tools
- Storable methods
- Different user levels with restricted access
- Proprietary result files or export in excel
- Trend display

- Scatter graph
- Start/stop of measurements with external signals
- Output of results as voltage signals
- Image sequences can be stored and viewed as movie
- Re-analysis of image sequences
- Shape information per particle size class