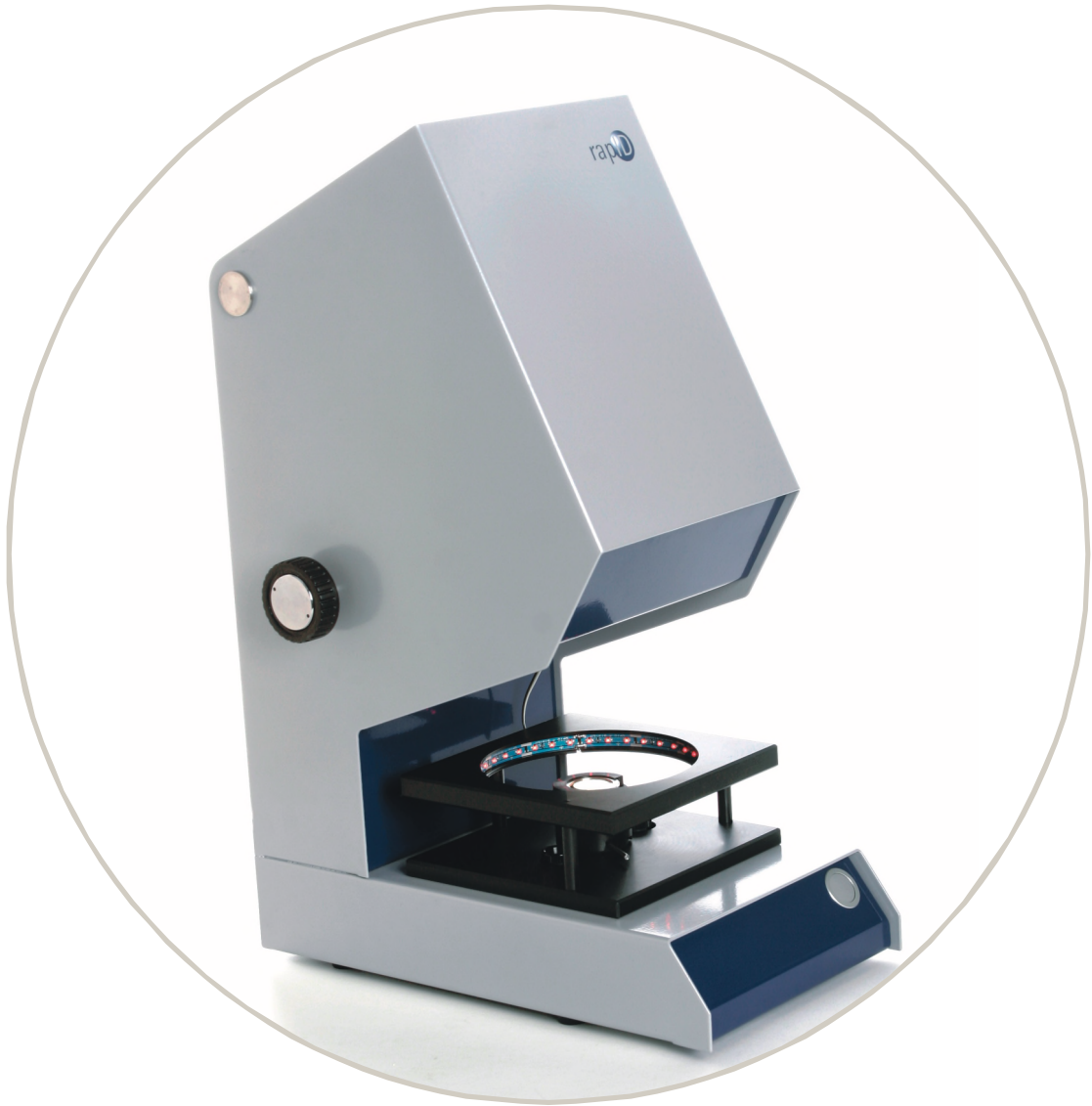




Particle Finder



Particle Size



Particle Shape

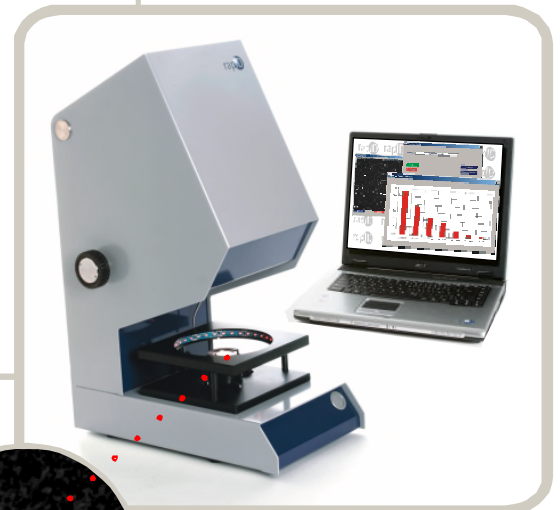


Particle Finder

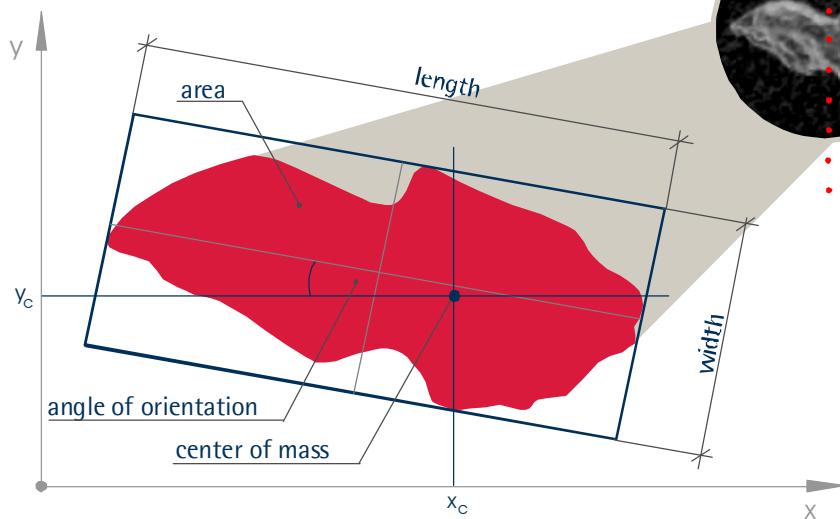
Particle Finder

is the portable particle characterizer. Particles are reliably filtered from liquids (filtr.AID filtration system), separated and photographed with optimal illumination on the membrane.

- The number, size and shape of micrometer particles are determined reliably, reproducibly, accurately and completely automatically.
- Membrane insertion, measuring and report all in just 20 seconds.
- Portable and robust design provides measuring results during the production.
- Data can be printed, exported or automatically saved on the company network for future reference.



Morphological parameter:



Particle

- Number
- Size: 10 channels
- Shape: 5 parameters
- Image

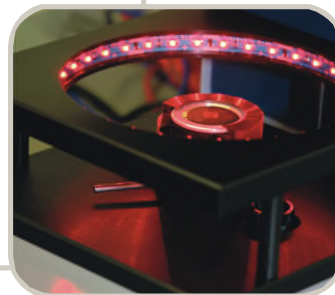
The Advantages of Particle Finder:

- Fast counting and size measurements of particles from cloudy or colored liquids.
- On-site analysis: deviations of particle size or shape are recorded immediately.
- Remote Particle ID: Mark your disturbing particles and send us your filter (filtr.AID membrane) along with the measurement report. By using this service we will provide the chemical composition of the particle within hours.
- Portable and robust design.
- Reliable and reproducible results.
- Sample preparation with the filtr.AID filtration set in just 5 minutes.

Unique Software and Technology

Technology:

- The **filtr.AID membrane system** allows reliable and reproducible isolation of particles from gases, anisotropic and colored liquids, as well as from solvents and suspensions.
- **Innovative darkfield illumination** generates a high contrast between membrane background and particles on the filtr.AID membrane.
- **Integrated digital image processing:** Fully-automatic threshold determination adaptive to illumination and filtr.AID membrane; morphological determination of the particles.
- **User-friendly Software:** One-click measurement.
- **Easily transportable.** Robust housing, few moving parts.



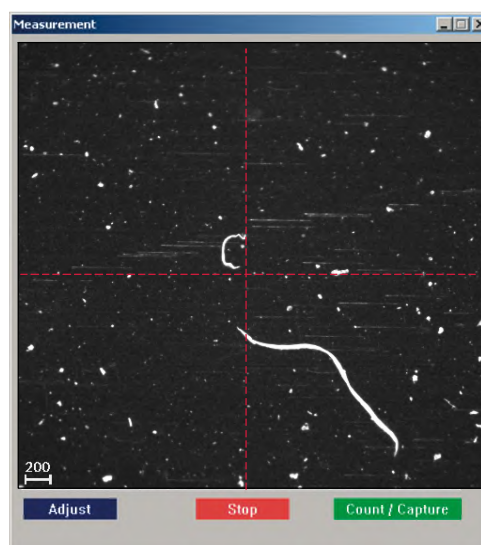
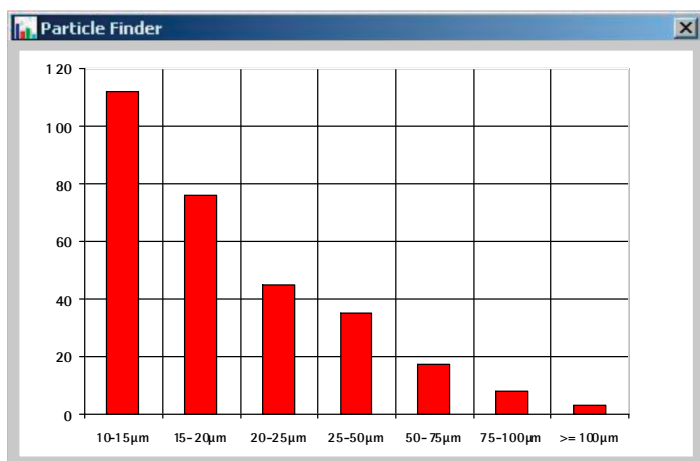
Features:

- Particle characterization: **number, size, shape**
- Large count range (12 μm - 7 mm)
- Easy handling
- Particle marking for remote Particle ID
- Worldwide service, qualification support
- Highly portable, robust and adjustment-free

Applications:

- Product quality control of pharmaceuticals and implants.
- Control of hydraulic fluids, liquid crystals, cleaning solutions, process media and baths.
- Evaluation of tool, machine and component cleanliness.

Software graphical user interface:



Particle Finder Standard Specification

Optical System

- Size ranges 10 size ranges, freely selectable
- Resolution 4 µm/pixel standard, 8 µm/pixel low
- Active area 4 x 4 mm standard, 8 x 8 mm low
- Illumination Darkfield, optionally extendible with brightfield
- Dimensions L 180 mm x D 320 mm (incl. plug 420 mm) x H 490 mm
- Weight about 15 kg

Performance

- Particle recognition 12 - 7,000 µm, optionally extendible to 5 µm
- Measuring time 10 s
- Memory 25,000,000 measurement data sets

Software

- Main module Particle Finder Software is password-protected, start, stop of measurements, method saving
- Results Data visualization and processing, data export option
- Compliance with legal requirements Software is compliant with 21 CFR PART 11 and was developed in accordance with GAMP V

Power supply

- Main connection 85 - 264 V, 48 - 62 Hz

Operation Guidelines

- Humidity 20 - 70 %
- Temperature 17 - 35 °C / 62.6 - 95.0 °F

Calibration

- Number and size NIST Traceable Standards, DIN Standards

Data

- Results Size, number, shape, description, user identification, microscope image, two-color processed image
- Audit trail User, timestamp, error messages, encrypted file format

Interfaces

- Connections USB 2.0 device