

Labor - image analysis devices - **Aello 7100**

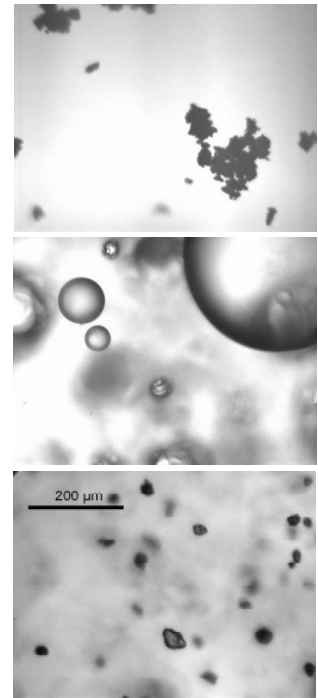
Description:

The direct view into a particle system shows a way to analyze a lot of characteristics like e.g. the particles size and distribution, the shape and shape distribution, the proportion of foreign bodies, concentration, color etc. Aello has developed a laboratory device, which analyses particles systems from 5 μm up to 5 mm.

The Aello 7100 instrument can characterize external taken or/and prepared samples. The measurement will be done in a cuvette. A magnetic stirrer serves for sample homogenization. The integration of a flow cell may be possible.

For the image analyzing it will be used the Aello software package Image Processing Tools - IPT. It can be adjusted to its respective measurement task e.g. the particle size distribution and shape analyses, detection of foreign bodies etc.

Additional the user himself can easily create own image analyzing algorithms for any special application requirements. For these propose he use the user-friendly and easy applicable graphical editor modus of the IPT software package.



samples of particles

Applications:

Measurement range

- Particle size: ~ 5 μm .. 5 mm

The precise measurement range depends on the optical particle behavior and the magnification

Characterization of particle systems:

- Particle size distribution and concentration
- Particle shape and shape distribution analyses
- Porosity, agglomeration
- Coarse particles analyses
- Detection of impurities and foreign bodies

Specifications hardware:

- Use with cuvette with magnetic stirrer
- PC-connection by firewire - (IEEE-1394) and RS-232 - interfaces
- Camera: black/white or color
- Resolution 1024x768 pixel
- Magnification: 4x, 5x, 10x or 20x
- White light illumination



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