

The art of innovation



Morphious LOT IA 200 The next Generation Laser Obscuration Technology and Image analysis combined



The Morphious LOT IA 200 is the Next generation LOT PSA analyzer technology which characterizes particles in sprays, dry powder, suspensions and liquids. The sophisticated technology offers a versatile tool to characterize complex data way beyond conventional approaches. The unique distribution plots generated reveal the true nature of the particles. With our cluster plot software routines we can classify various particles and determine any interrelation between the nature of the particle and the process conditions. Our interactive mosaic interface allows each individual particle to be analyzed right from the various graphs (i.e. histograms, cluster plots). The distributions are presented in either standard number and volume plots.

Stop calibrating apples and measuring Bananas!

Laser Obscuration Time Analysis is a Particle Size Analysis technique based on true physical parameters such as [time] and [speed]. Laser Diffraction PSA techniques however are based on false assumptions. See more details in section "What is wrong with Laser Diffraction". The combination LOT (Laser Obscuration Time) with Image Analysis (LOT I A) is utterly versatile and can be used for many PSA application where other techniques fail.

www.microptik.eu

Particle Size Analyzer

Laser Obscuration Time and Image Analysis
All in one! Morphious™ LOT IA 200

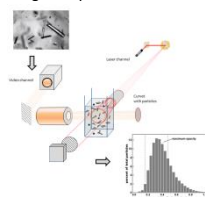
Advantages of LOT and IA

Laser and video channel in one instrument! Does not assume all particles are spheres like laser diffraction. Direct Measurement of correct particle size, not influenced by physical or optical properties like refractive -or absorbance index. Detection of minor fractions. High concentrations. Transparent and metal particles no problem. Particle range of 0.2 μm to 3.6 mm. Many accessories available to measure sprays, dry powders and suspensions. Bench-top as well as On/At- Line techniques available. Easy-to use, powerful software.

The LOT and IA concept

Fast and reliable PSA with a unique combination of LOT (Laser Obscuration Time) and Image analysis
Accurate description of non spherical particles with sophisticated dynamic image analysis using a state of the art High speed High resolution camera.
Results are independent of physical or optical properties of the particles or medium

A combination of Laser obscuration Time analysis and Image analysis

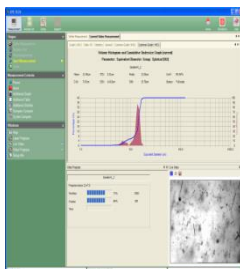


Accurate analysis and characterization of spherical, non- spherical and elongated particles.

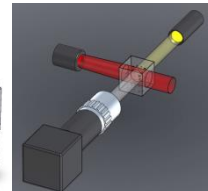
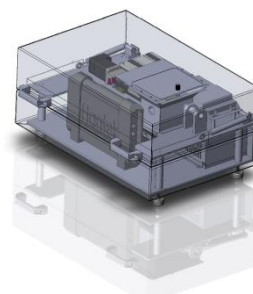
Simultaneous results of Particle Size, concentration and shape.
Modular design for a range of dry and wet applications
Real-time visualization of the sample during operation.

Powerful and sophisticated software

An infinite amount of routines are available to characterize the particles. Sophisticated distribution and cluster plots.

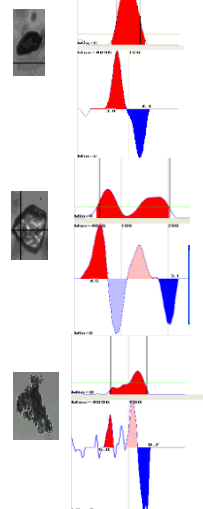


Beyond particle Size!



Particle Characterization

Extremely powerful characterization fingerprints of particles by Pulse analysis
Morphometry is directly related to shape of pulse.



Measurement Cells

The Morphious is a modular system that can be fitted with 10 different measurement cells. With a quick change of a measurement cell this versatile instrument is ready to analyze particles in liquid, emulsions, dry powders, fibers, magnetic particles, heated liquids and aerosol. This application driven approach ensures your sample is measured according to its specific nature.



Magnetic Stirrer Cell ACM-101, Mechanical Stirring Cell ACM-102, Liquid flow cell ACM-104A, Fiber Cell ACM-104L, Aerosol Flow Cell ACM-105, Micro Flow Cell ACM-108, Slide Cell ACM-110, Heated Cell ACM-111, Free fall Cell ACM-112

PC

The Morphious LOT IA 200 can be hooked up with any modern pc (Windows 7 or higher)

More information!

Ask our sales representatives for more information.

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