



PARTICLE SIZE AND SHAPE ANALYZER

CAMSIZER® ONLINE

The CAMSIZER ONLINE is an online 3D particle size and shape analyzer that can be integrated into any process loop.

Our CAMSIZER systems are reliable, rugged systems for the measurement of granules such as fertilizer, sand, sugar, stone and a wide variety of food industry products. We have designed our measuring method to be both intuitive and functional. The CAMSIZER ONLINE is acclaimed for its user-friendliness and application flexibility.

The CAMSIZER ONLINE system is renowned for its ability to produce and reproduce accurate, quick and reliable results that are easily calibrated to your quality control procedures. The CAMSIZER ONLINE can measure 32 morphological parameters of your material including size, shape, surface roughness, density, transparency, and of course 3D in one fast analysis. The CAMSIZER ONLINE can measure particles ranging in size from 30 µm to 35 mm.



[Click to view video](#)

Product Video

CAMSIZER ONLINE

FEATURES

- | Characterizes 32 morphological parameters of your material including 3D
- | Non-contact measurement of dry particles ranging in size from 30 µm to 35 mm
- | Analyses 100 images per second with high-speed, high-resolution camera
- | Rugged design with a compact footprint
- | Self-cleaning mechanism, which reduces user intervention and increases optimal measurement capability
- | Explosion proof
- | Clean integration with 3rd party sample delivery devices
- | Optimized for control room use
- | Customizable sample condition

CAMSIZER ONLINE XL

FOR LARGE SAMPLE MATERIALS

An on-line large particle size & shape analyzer used for process control.

The CAMSIZER ONLINE XL is a large particle size and shape analyzer that can measure particles ranging in size from 160 to 135,000 μm . Microtrac uses patented on-line 3D analysis technology with the Camsizer ONLINE and Camsizer ONLINE XL. We have over 25 years of experience helping quality control departments improve their product quality with Online Dynamic Image Analysis.



FEATURES

- | Characterizes 32 morphological parameters of your material including 3D
- | Non-contact measurement of dry particles ranging in size from 160 – 135,000 μm
- | Analyses 100 images per second with high-speed, high-resolution camera
- | Enclosed optical system which reduces downtime for maintenance
- | Explosion proof
- | Clean integration with 3rd party sample delivery devices
- | Optimized for control room use
- | Customizable sample conditioning

TYPICAL APPLICATIONS

Used in various fields such as: aggregates , building materials, fertilizers, food, geology / mining, glass beads, ...



cement



fertilizers



wood chips

To find the best solution for your particle characterization needs, visit our application database

PARTICLE SIZE AND SHAPE ANALYZER CAMSIZER® ONLINE

TECHNICAL DATA

Measuring range	30 µm - 30 mm (ONLINE) 160 µm - 135 mm (ONLINE XL)
Measurement principle	Dynamic image analysis
Type of analysis	Dry analysis of free flowing powders, granulates and bulk material
Measuring time	Approx. 5 – 10 minutes (depending on the desired measuring statistics)
Detection system	High-speed camera with 100 – 300 images per second (each with 5 MP)
Electrical	AC input: 100 – 132 VAC (120 VAC model) 200 – 250 VAC (240 VAC model) 47-63 Hz, single phase
Power consumption	Approx. 75 VA maximum
Temperature range	10°C to 35°C (50°F to 95°F)
Humidity	20% to 90% RH, non-condensing maximum
Storage temperature	-10°C to 50°C (14°F to 122°F) (dry only)
Pollution	Degree 2
Standards	ISO 13322-2 Dynamic Image Analysis
Case material	Stainless steel Epoxy overcoat finish (optional)
Sample transport material	Stainless steel
Dimensions (W x H x D)	55 x 35 x 12 in (1401 x 900 x 300 mm)
Weight	132 lbs (60 kg)
Online system for process integration with 3rd party sample delivery devices	

PARTICLE SIZE AND SHAPE ANALYZER CAMSIZER® ONLINE XL

TECHNICAL DATA

Measuring range	160 µm - 135 mm
Measurement principle	Dynamic image analysis

Type of analysis	Dry analysis of free flowing powders, granulates and bulk material
Measuring time	Approx. 5 – 10 minutes (depending on the desired measuring statistics)
Detection system	High-speed camera with 100 – 300 images per second (each with 5 MP)
Electrical	AC input: 100 – 132 VAC (120 VAC model) 200 – 250 VAC (240 VAC model) 47-63 Hz, single phase
Power consumption	Approx. 75 VA maximum
Temperature range	10°C to 35°C (50°F to 95°F)
Humidity	20% to 90% RH, non-condensing maximum
Storage temperature	-10°C to 50°C (14°F to 122°F) (dry only)
Pollution	Degree 2
Standards	ISO 13322-2 Dynamic Image Analysis
Case material	Stainless steel with epoxy overcoat finish
Sample transport material	Stainless steel
Dimensions (W x H x D)	67 x 48 x 16 in (1693 x 1229 x 400 mm)
Weight	198 lbs (90 kg)

www.microtrac.com/camsizer-online