



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  $\mu\text{m}$  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  $\mu\text{m}$ . 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  $\mu\text{m}$
- | 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**

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

PARTICLE SIZE AND SHAPE ANALYZER CAMSIZER® ONLINE XL

**TECHNICAL DATA**

<b>Measuring range</b>	160 µm - 135 mm
<b>Measurement principle</b>	Dynamic image analysis

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

[www.microtrac.com/camsizer-online](http://www.microtrac.com/camsizer-online)