



SENSUM



PATVIS APA

Process Analytical Technology
Visual Inspection System for
Automated Particle Analysis

Computer
Vision
Systems

PATVIS APA

Process Analytical Technology Visual Inspection System for Automated Particle Analysis



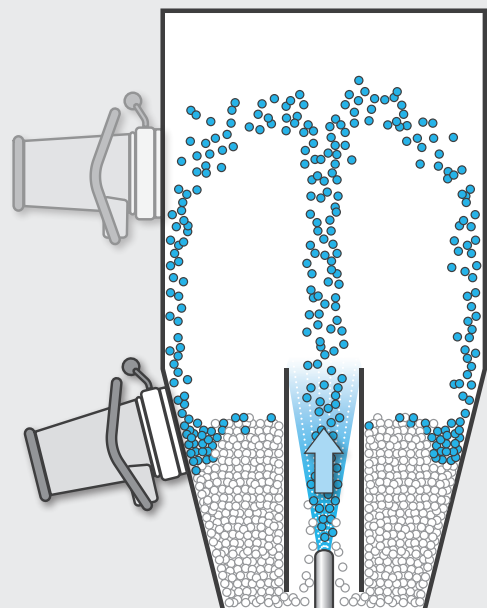
Highlights

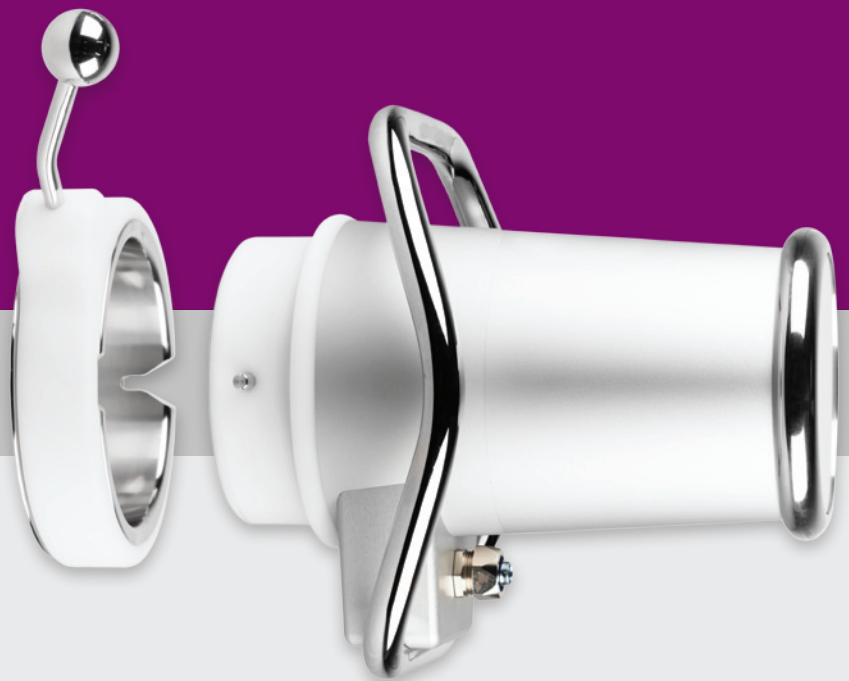
- Monitoring batch-to-batch reproducibility
- Size and shape information in real-time
- In-line, at-line or off-line mode
- Noninvasive and contactless
- Portable, ergonomic and tool-free
- Intuitive graphical user interface
- Telecentric optical system
- ATEX compliant

Sensum PATVIS APA is Process Analytical Technology Visual Inspection System for monitoring, understanding and optimization of fluid bed pharmaceutical production processes.

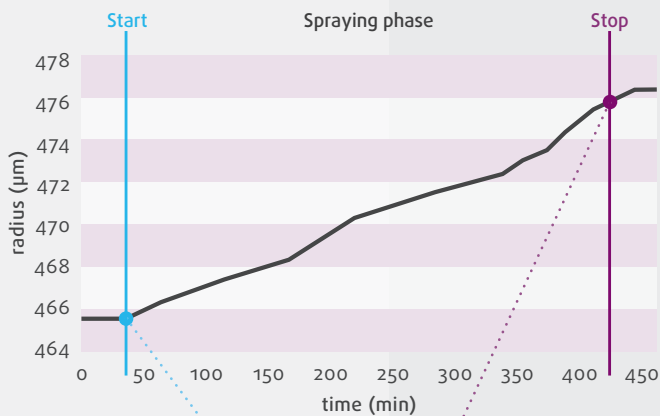
Enables real-time monitoring and fully automated analysis of size and shape of particles throughout processing.

Easily attached to existing viewing ports for in-line inspection or used as a standalone device for at-line inspection.

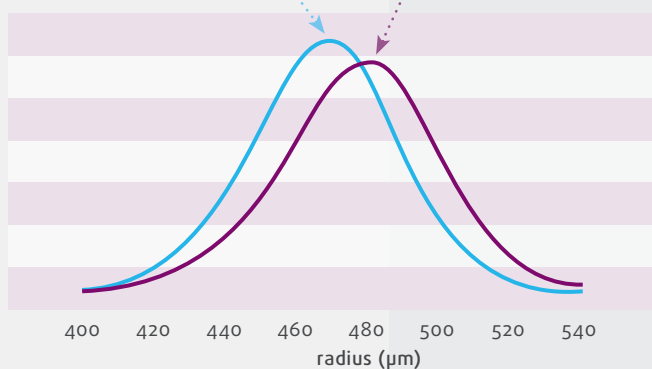




Particle size measurements during coating process



Particle size distribution



Measurements

	Particle size	• 100 - 5000 µm
	Maximal particle speed	• 10 m/s
	Measurement speed	• Up to 30.000 particles/s (Ø 1 mm)
	Measurement precision	• 1 µm
	Frames per second	• Up to 500
	Field of view	• 16 × 16 mm
	Data output	• PDF Batch report, CSV, Images

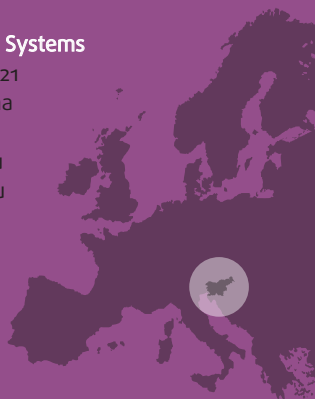
Technical data

	Application	• Particles
	Camera	• B/W or color
	Optical system	• Telecentric
	Electrical connection	• 230V 1/N/PE 2A
	Dimensions (L×W×H)	• ~ 330 × 330 × 300 mm
	Weight	• 9,5 kg
	Certificates	• ATEX 1, 21, CE



SENSUM

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Specialised in high quality assurance in pharmaceutical industry by integrated computer vision systems.

R&D collaboration with the Imaging Technologies Lab, Department of Electrical Engineering, University of Ljubljana.

30 years of experience in image processing and analysis.