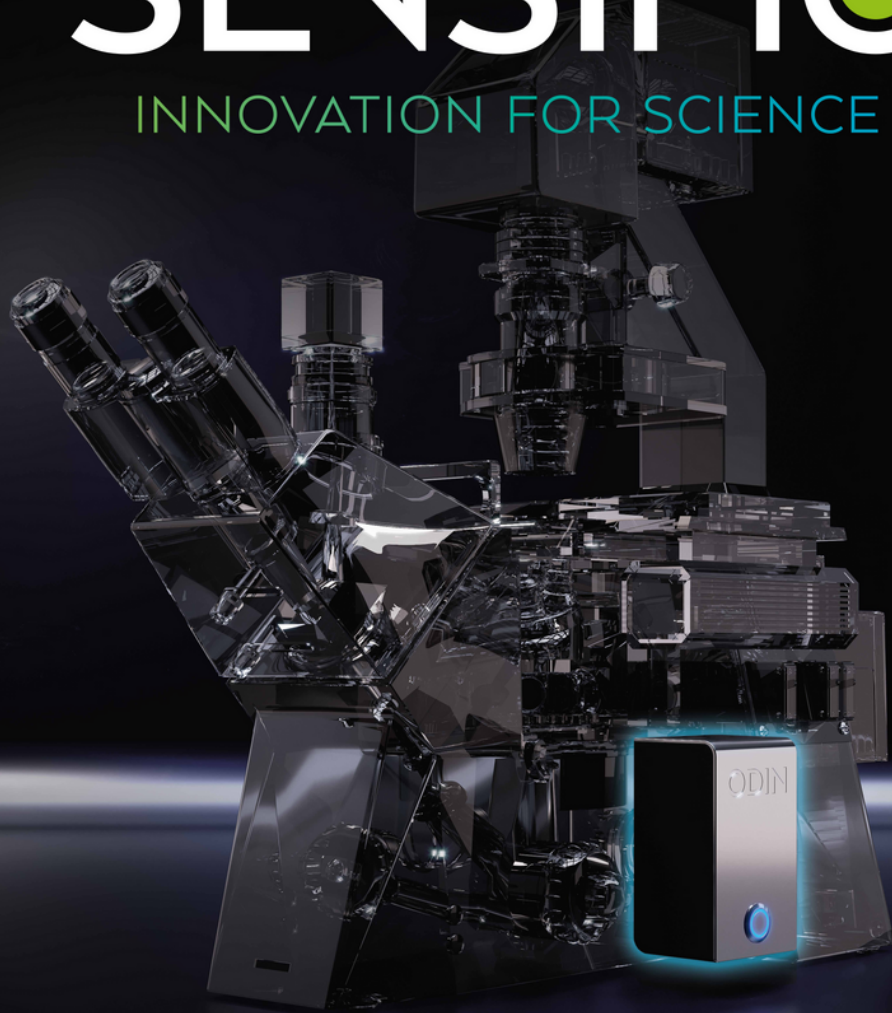


SENSIFIC

INNOVATION FOR SCIENCE



ODIN

We make your droplets work better

Key benefits:

COMPREHENSIVE DROPLET MANAGEMENT:

- Comprehensive solution for droplet creation, quality control, analysis, and sorting
- Real-time control of droplet size, spacing & production rate
- Improved velocity and encapsulation efficiency
- Significant reduction in error rates for optimised performance

VISUAL ANALYSIS EXCELLENCE:

- Detailed examinations across visual fields: brightfield and fluorescence
- Analyse droplet composition without biochemical markers, including encapsulation status, quantity, and particle type
- Combine multiple contrast types in one measurement
- Facility aids in understanding interactions between encapsulated entities or introduced substances

REAL-TIME ANALYTICAL OBSERVATION

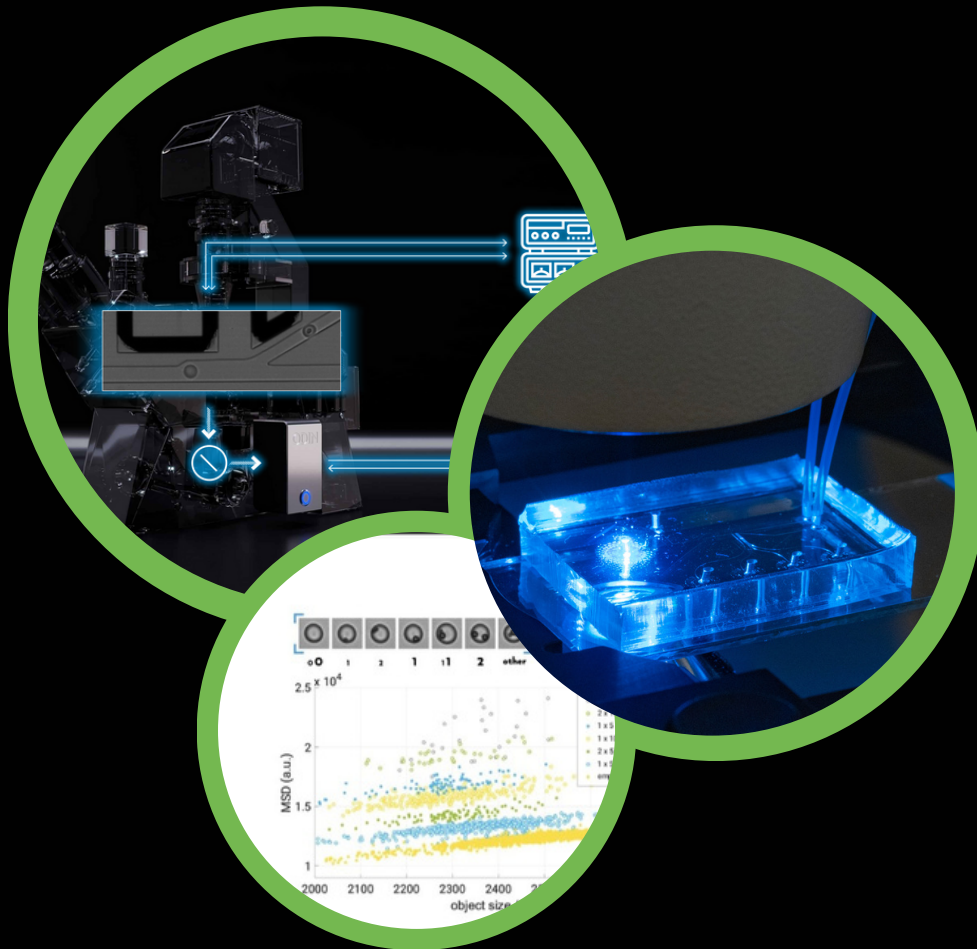
- Smart algorithms provide over 30 object parameters on a user-friendly interface
- Customise trigger signal length and duration for compatibility with various sorting systems and flow rates



Technical Specifications

SORTING /CONTROL

- Two freely programmable and independent trigger outputs
- Adjustable delay for signal output between 200 μ s and 10 s
- Signal timing precision <10 ns
- Easy graphical programming by region marking in plots



IMAGING

- 220 fps @ 1280x1024 px monochrome, 10 bit
- Up to 10000 fps @ 400x32 px
- Sensitive in range 300-1000 nm, 550 nm peak @ 54% quantum efficiency
- Prepared for external ultra-fast flash illumination (0.3-5 μ s shutter time)

REAL-TIME ANALYSIS

- User-friendly graphical interface helps to make your analysis efficient
- Mark areas on diagrams to aid sorting
- Automatic and dynamic background subtraction for optimized signal-to-noise ratio and measurement robustness
- Latency between image capturing and analysis result <200 μ s
- Fully automatic analysis of more than 30 object characteristics like size, velocity and direction, position, granularity, intensity, circumference.
- Simultaneous analysis in different contrast types like size in bright-field and size in fluorescence



Email us: info@sensific.de

ODIN

Applications

Our microfluidic channels offer seamless integration with ODIN. Our technology has many applications spanning different fields including:



Single Cell Genomics



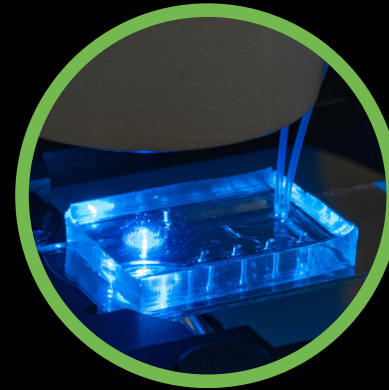
Cell therapy



Antibody discovery

Learn more at www.sensific.de

Custom development



Sensific offers custom development services for your next big idea, tailoring our ODIN hardware and software to accelerate your groundbreaking research.



Send us an email info@sensific.de





We strive to make cell therapy affordable to all

Based in Southern Germany, we develop and provide highly innovative optical measurement and automation systems for both research and industrial customers.

Our ODIN platform provides all-in-one solutions for droplet creation, analysis, sorting and quality control.

Our goal is to provide the best tools for scientists who work with droplet microfluidics to solve the unmet needs in life science research.

We look forward to hearing from you!



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