



# CELLEN ONE BSC

Precision & protection for  
automated single cell  
cloning & omics.





## About cellenONE®

cellenONE® is a unique platform combining high accuracy single cell isolation and precision nanoliter reagent dispensing, allowing miniaturization of a range of single cell omics protocols and enabling automated cell line development workflows with best-in-class clonal outgrowth.

## cellenONE BSC benefits

- Protection of the operator, the sample, and the environment provided by the integration into a class II biosafety cabinet
- Proof of monoclonality in account to imaging technology
- Multi-parameter fluorescence and brightfield image-based cell sorting
- Any type of cell, from microbial cells to large cells (0.5µm – 80µm)
- All-in-one single cell sorting and isolation, along with nanoliter dispensing
- Cost saving sample preparation as a result of the miniaturization of the workflows in microchip
- Isolation of hundreds of cells in only few minutes
- Compatible with any multiwell plate (96, 384, 1536 wells)





Cell line development (CLD)



Bioassay miniaturization



Cell sorting



Single cell omics



Single cell cloning



Custom applications

## Features & Options

### Hardware

- Ultra-gentle dispensing technology offers best-in-class clonal outgrowth
- Temperature control improves fragile cells' viabilities
- Compatible with any labware, standard and custom
- Recovery tube collects all non-isolated cells for reprocessing, enabling maximal recovery of precious samples

### Software

- User-defined sorting parameters (morphology and/or fluorescence markers)
- Increased assurance of monoclonality - fully documented with PDF report generation
- Post-isolation QC with statistics and image annotation tools
- Images of all isolated cells are saved - link phenotypic and morphological information with omics data

# Technical Specifications

Field of application	Cloning & omics
Sorting technology	Multi-fluorescence & brightfield imaging
Dispensing technology	Non-contact dispensing, single drop on demand from 250 - 600 pL with a CV < 0.2%
Spottable area	252 x 112 mm
Target capacity	2 Microplates or 8 standard glass slides
Axis precision	< 10 µm
Dimensions with enclosure (LxWxH)	1300 x 750 x 2330 mm
Weight	535 kg



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