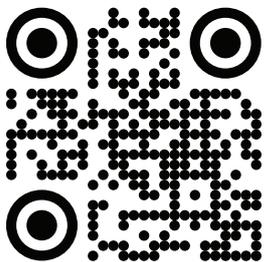


**CELLENION** 

A BICO COMPANY

DISCOVER

# CELLEN ONE X1 **NEO**



[cellenion.com](http://cellenion.com)

## ABOUT CELLEN ONE X1 NEO

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cellenONE® X1 NEO is an all-in-one platform designed for the most demanding single cell workflows. Combining image-based isolation with ultra-precise picoliter to nanoliter dispensing, it ensures unmatched accuracy, reproducibility, and flexibility.

With dedicated software packages, environmental control, and seamless integration with proteoCHIP® consumables, NEO delivers turnkey solutions for genomics, transcriptomics, proteomics, and cell line engineering.

From discovery research to high-value applications in oncology or precision medicine, cellenONE® X1 NEO provides the tools, the methods, and the know-how to accelerate innovation.

## KEY FEATURES

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Single cell isolation



Precision liquid dispensing



On-deck temperature control



Brightfield and/or Fluorescence



Image recording of every isolated cell



End-to-end sample preparation workflows





# CELLEN ONE X1 NEO BENEFITS

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1

## Isolate up to 100% single cells, alive

- 95-100 % single cells avoiding doublets, debris and empty wells
- No size bias
- Ultra gentle acoustic-based dispensing technology
- Temperature control for improved cell viability

2

## Unmatched versatility

- Any cell type (from 0.5 to 80  $\mu\text{m}$ ): capture sample heterogeneity from the same sample
- Any sample size (from 3  $\mu\text{L}$ ), any reagent
- Any consumable, from standard (i.e. 96, 384, 1536 well plates, Thermo Scientific™ Piko PCR, glass slides, etc.) to custom labware
- Any single cell application, from cloning to cell line engineering to single cell multi-omics or spatial proteomics



3

### **Focus on your very target cells**

- Live imaging of cell sample content
- Four fluorescence channels, with high-intensity LEDs
- User-defined sorting parameters (morphology and/or fluorescence based)
- Record image of every isolated cell

4

### **ALL-IN-ONE: Combine cell isolation, reagent dispensing and incubations**

- Proprietary picoliter dispensing, for pico- to nanoliter range volume reactions
- 250-600 pL per drop for sample prep miniaturization
- High precision in all dimensions: accurate volumes on accurate positions
- Run incubations on the instrument deck, with accurate and fast temperature and humidity controls

5

### **Automation and fluidity, throughout your workflow**

- Faster instrument start-up time and improved user experience
- Application-dedicated Software Packages
- End-to-end workflows: create your own or use the pre-installed runs
- Synergy with proteoCHIP® for seamless single cell proteomics

# APPLICATIONS

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## OMICS



Single cell proteomics



Spatial proteomics



Single cell genomics



Single cell transcriptomics



Single cell epigenetics

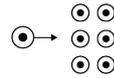
## CLONING



Cell engineering



Stem cells



Synthetic biology

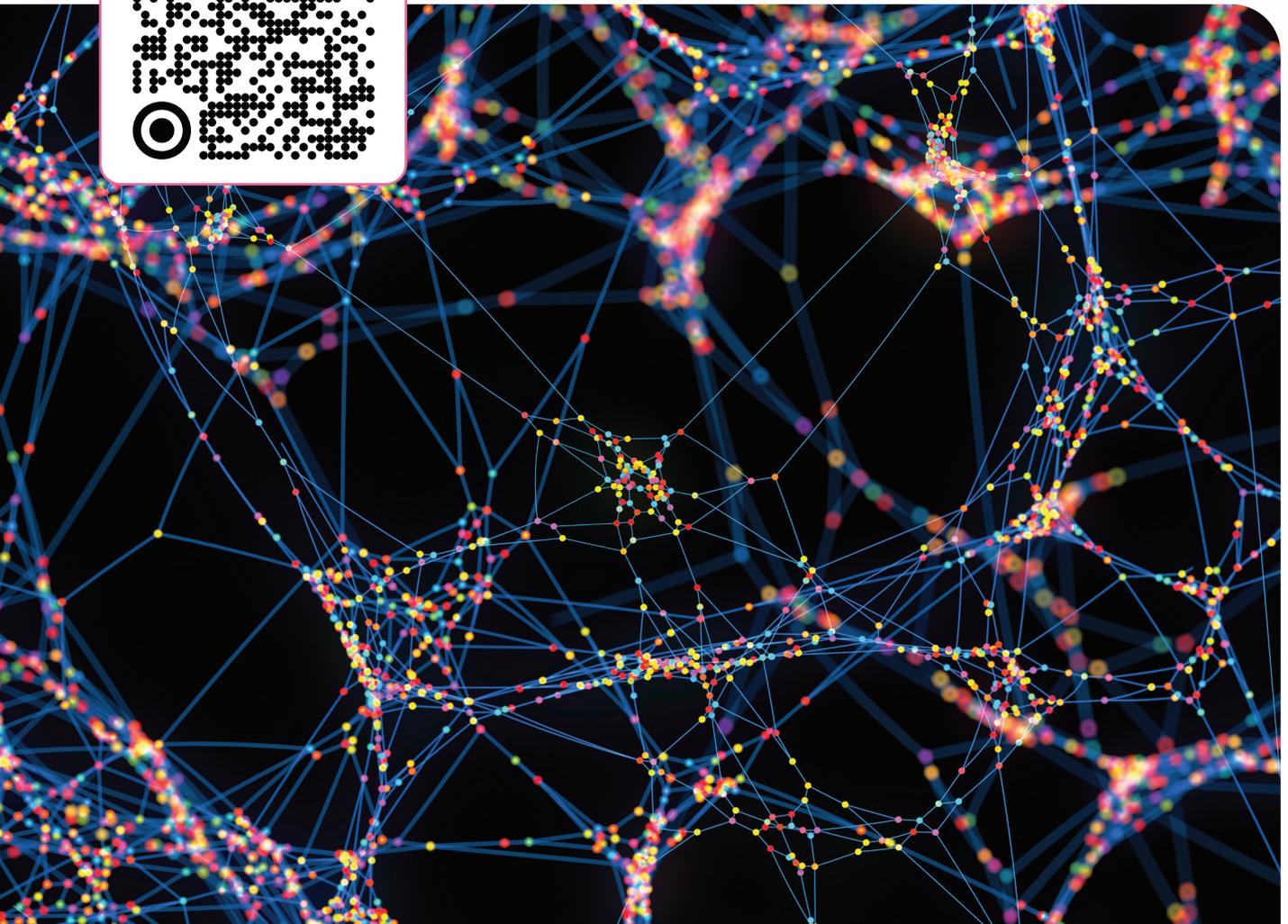


Monoclonal antibody



Microbiology

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APPLICATIONS PAGE  
TO LEARN MORE



# SOFTWARE PACKAGES

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## New Software Packages For New Possibilities

With cellenONE® X1 NEO, you can expand beyond the essentials. Our suite of software packages lets you tailor your system to your research goals, whether streamlining standard workflows, isolating rare cells, advancing microbiology, or enabling end-to-end single-cell proteomics. Choose only what you need, when you need it.

### Package

**Standard Isolation Package 3.0 –**  
Powerful Essentials, Built Right In

### Best for / Key Benefits

Included with every instrument, everything you need to kickstart your cell isolation workflows with confidence. From precise reagent dispensing to comprehensive data logging and reporting: all the core capabilities, right out of the box

**Fluorescence Package –**  
Illuminate, Identify, Isolate

Featuring 4 high-performance, LED-based fluorescent channels, making complex sorting workflows easier, faster, and more precise. Supports viability checks, marker-based isolation, and advanced data collection.

**Advanced Cell Isolation Package 3.0 –**  
Capture the Rare, Control the Unconventional

Built for rare cells, irregular particles, and non-standard workflows, delivering precision, efficiency, and confidence every step of the way. Includes enrichment mode, manual isolation, and custom dispensing/QC.

**Microbiology Package –**  
Detect the Small, Discover the Significant

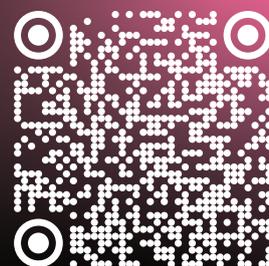
Designed to support demanding microbiology applications, this advanced detection algorithm improves clarity and accuracy, ensuring that even subtle signals stand out.

**Proteomics Package 3.0 –**  
Simplify, Standardize, Scale

Unlock the full potential of single-cell proteomics with pretested, end-to-end workflows, designed to take you seamlessly from reagent dispensing to cell isolation to final solution, ready for downstream mass spectrometry.

**Every workflow is unique: our software packages give you the flexibility to grow and innovate at your own pace.**

Looking for technical details and full feature descriptions? Discover the complete guide in our dedicated Software Packages flyer.



## PRODUCT SPECIFICATIONS

Cell size / range	0.5 - 80 $\mu\text{m}$
Single cell accuracy	95-100%
Image-based detection / isolation criteria	Morphology in brightfield: Size & circularity criteria Fluorescence intensity: DAPI (ex. 375 nm; em. 432 nm) FITC (ex. 470 nm; em. 515 nm) Cy3 (ex. 565 nm; em. 580 nm) Cy5 (ex. 625 nm; em. 670 nm)
Target capacity	2 MTPs, 8 standard glass slides
Target compatibility	All MTP plates, microscope slides, custom target consumables
Isolation speed	40 cells / min
Target temperature range	4-85°C
Source sample temperature	Ambient or 10°C
Dispensing technology	On-demand droplet generation by gentle acoustic wave (sciDROP PICO)
Droplet volume	250-600 $\mu\text{L}$
Average coefficient of variation of drop volume	< 2 %, typically < 0.5 %
Axis system	X-Y Linear Magnetic Drive, Z Spindle Drive
Dispensing position precision	3 $\mu\text{m}$
Dimensions with enclosure (L x W x H)	650 x 700 x 1,590 mm
Weight	Approx. 242 kg

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