CellSorter

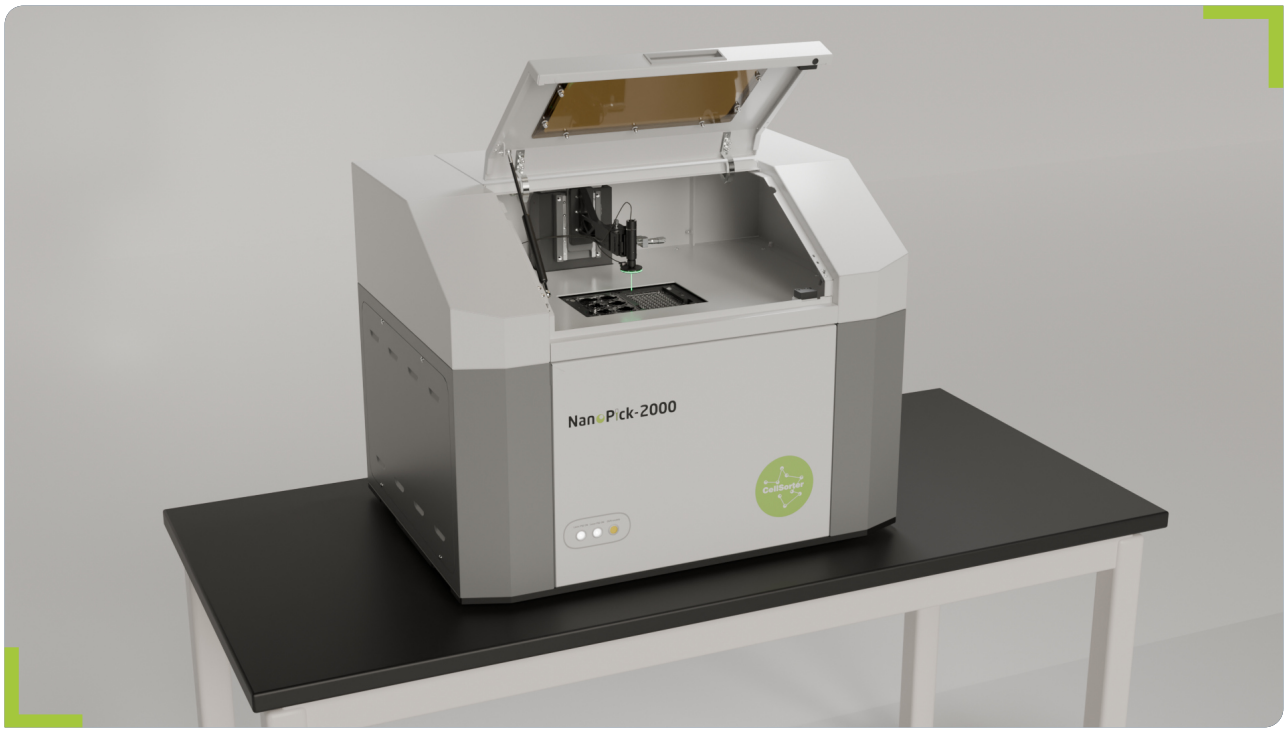
SINGLE CELL ISOLATION TECHNOLOGY

based on computer vision

NanoPick-2000

FULLY AUTOMATED INSTRUMENT FOR SINGLE CELL MANIPULATIONS

FOR GENOMICS, PROTEOMICS, CLONING, RARE CELL ISOLATION, AND MORE



MAIN FEATURES

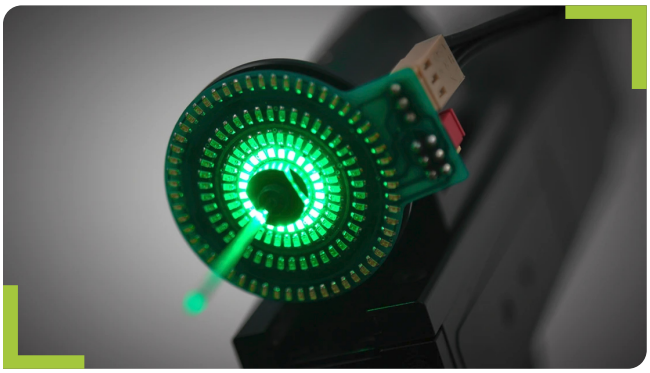
- Fully automated multichannel fluorescent imaging with laser autofocus and 6-position objective revolver
- High-throughput imaging of millions of cells
- Dual-plate setup for picking and deposition
- AI modules for image analysis
- Autocalibration function

MODULAR OPTIONS

- Incubation: 37°C, 5% CO_2, 100% humidity
- Sterile laminar flow
- Automated micropipette exchange

PHENOTYPE BY IMAGING

GENOTYPE BY NEXT-GENERATION SEQUENCING



For single-cell DNA/RNA sequencing, CTC detection, protein engineering, cellular adhesion analysis, or nanoliter dispensing with real-time imaging

CellSorter

CELLSORTER
Company For Biotech Innovations

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COMPONENTS

PRECISION & HIGH THROUGHPUT

- NanoPick sorting head
- Built-in LED illumination for high-quality phase contrast imaging: Ph1, Ph2
- 6-position motorized filter turret for fluorescent imaging
- 6-position motorized objective revolver
- High-precision borosilicate glass micropipettes
- High-speed motorized components
- High-sensitivity back-illuminated CMOS camera
- Sample holder for two standard multiwell plates
- Laser autofocus

PRECISION & EFFICIENCY

- High-resolution imaging combined with <1 nanoliter liquid handling accuracy
- Capability to isolate both suspended and surface-attached cells
- New standard in single-cell isolation, >90% efficiency

GLASS MICROPIPETTES

- Calibrated borosilicate capillaries developed for single cell sorting; aperture range: 5-110 µm
- Optimal micropipette size can be chosen depending on your specific application

FULLY AUTOMATED INSTRUMENT

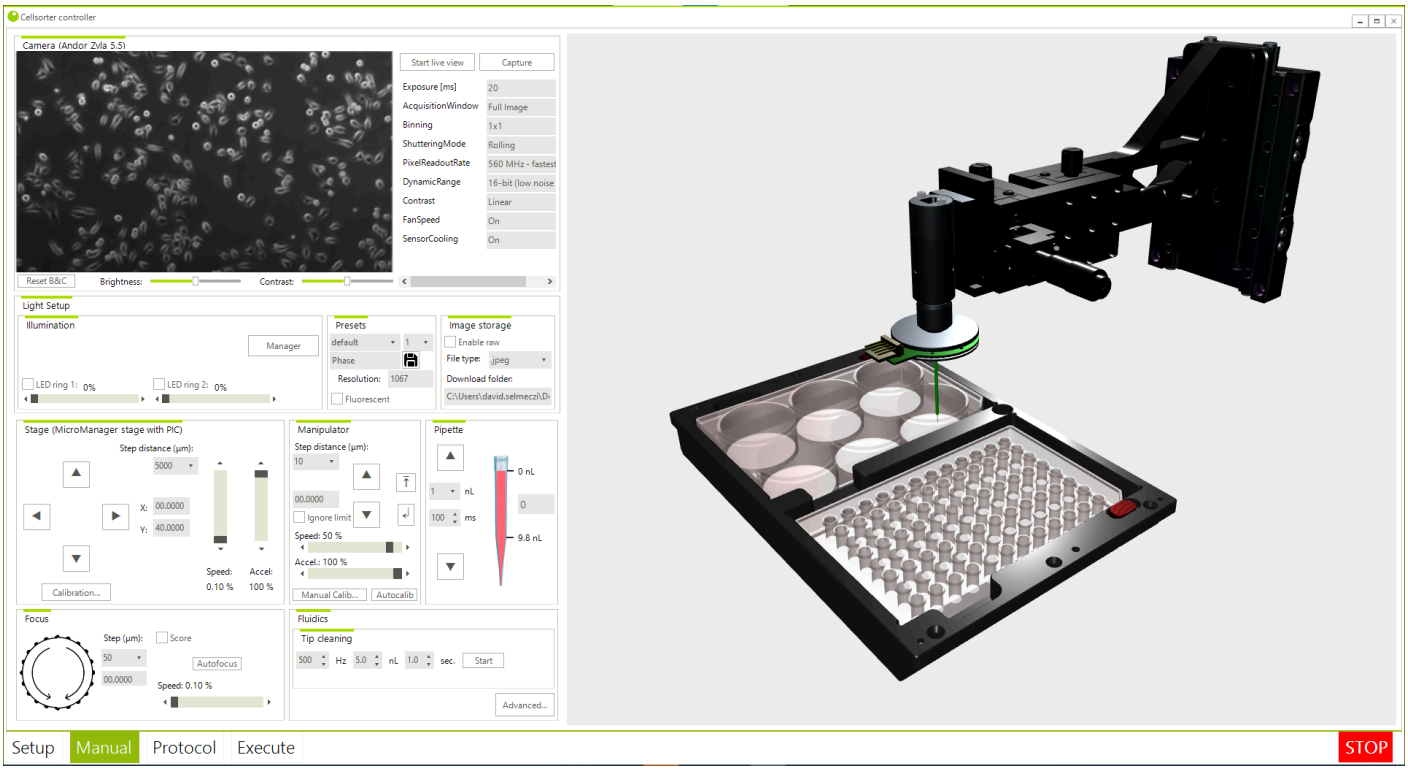
- Minimal manual adjustments
- 100% software-controlled process
- Protocols containing settings can be saved for subsequent use

USER-FRIENDLY SOFTWARE CONTROL

- Intuitive GUI with brief tutorials
- Multi-layer interactive map
- Layers are the phase contrast and fluorescent channels
- Plug-ins for cell recognition and classification
- 3 tabs for 3 steps: Scanning, Analysis, Sorting
- Real-time 3D simulation of the hardware
- Capability of saving all data for further analysis

NANOPICK SORTING HEAD

- Better than 1 nanoliter liquid handling precision
- Flexibility - applicable to a wide range of single-cell experiments



UNIQUE PATENTED TECHNOLOGY WITH SCIENTIFIC REFERENCES

B.Szabó, Piezoelectric micropipette, Patent number: 231.103, W02020165617

B.Francz et al.: Subnanoliter precision piezo pipette for single cell isolation and droplet printing, *Microfluidics and Nanofluidics 24: 12 (2020)*

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