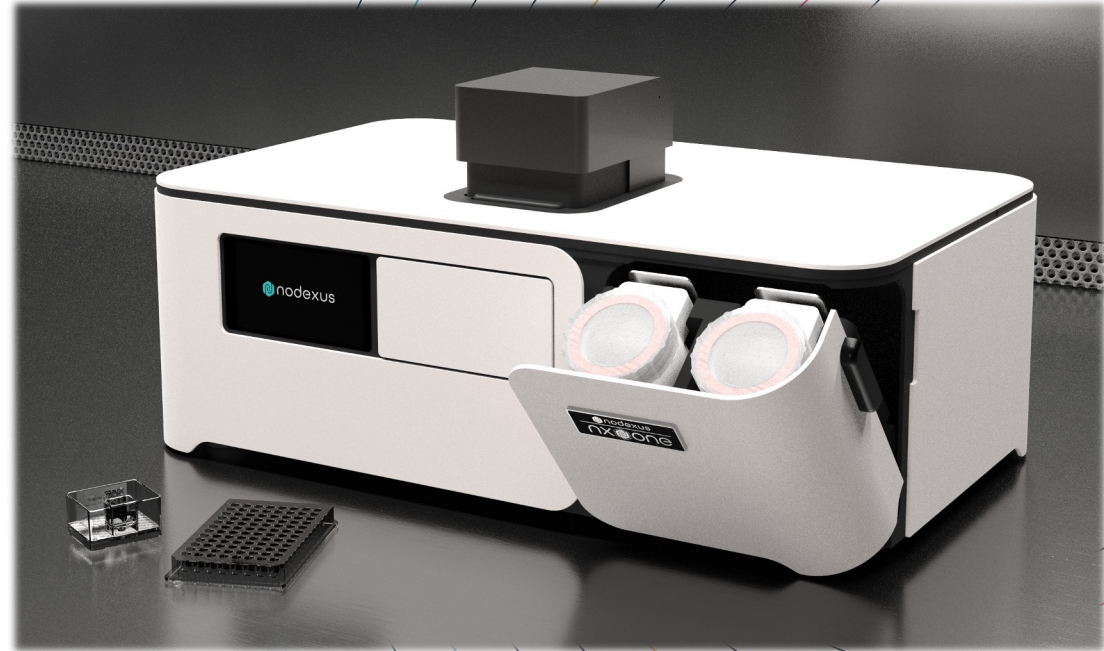





Flexible Affordable Single-Cell Sorting and Dispensing



Accessible for all – the NX ONE starts at <\$100K



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	<h2 style="text-align: center;">Gentle and Affordable Single Cell Analysis, Sorting, and Dispensing</h2>	
Modes of Operation	<ul style="list-style-type: none"> • Single-cell dispensing • Plate sorting • Bulk enrichment sorting 	<ul style="list-style-type: none"> • Cloning of immortalized, primary, and iPSC cells in microplates • Supports microplates from 6-well to 384-well plates (standard, medium, and deep) • Collection into 2-mL capped microfuge tubes or into plates
Pressure	<ul style="list-style-type: none"> • < 1 psi 	<ul style="list-style-type: none"> • Gentle cell sorting and dispensing for cell lines, iPSCs, primary cells, yeast, and more • Optimal viability yield and clonal outgrowth (visit nodexus.com/resources)
Microfluidics Cartridge	<ul style="list-style-type: none"> • Sample input volume: 2 mL • Optimal sample density: 5,000 to 200,000 cells/mL 	<ul style="list-style-type: none"> • Contamination-free cell sorting with no cross-sample contamination • No aerosols and minimal waste generation • Processed via electron beam sterilization
Sorting Rate	<ul style="list-style-type: none"> • 96-well plate sorting < 5 minutes 	<ul style="list-style-type: none"> • Driven by sample density & target population
Detection Rate	<ul style="list-style-type: none"> • Up to 5,000 events / second 	
Setup and Shutdown	<ul style="list-style-type: none"> • Plug-and-play cartridge with <2 min auto-tuning • Setup, clean up, and shutdown complete in < 2 min 	<ul style="list-style-type: none"> • Instrument automatically tunes priming & pressure, flow rate, and drop time optimization for each cartridge and every run • Zero user alignment, drop delay, or beads necessary
Excitation Source	<ul style="list-style-type: none"> • 488nm solid state laser, 100 mW at source (Contact us for custom configurations!) 	
Detection Parameters	<ul style="list-style-type: none"> • Axial light loss (analogous to forward scatter) • 3 fluorescence channels using silicon photomultipliers & built-in compensation templates 	<ul style="list-style-type: none"> • Relative cell sizing & doublet discrimination • Particle size dynamic range: yeast (~2 μm) to nascent organoids (~50 μm) • 500 – 550 nm (FITC, GFP, AF488) • 550 – 600 nm (PE) • 600 – 800 nm (PE-Cy5, PerCP, PE-Cy5.5, PE-Cy7, RFP)
Software	<ul style="list-style-type: none"> • Intuitive Windows® software: CellSort • Wireless connectivity for untethered access 	<ul style="list-style-type: none"> • Flexible data viewing (histogram, dot, density, and index mode viewing) • Flexible gating (range, threshold, polygonal, hierarchical) • Output file formats: FCS & NDX (for easy templates and index mode visualization)
Dimensions	<ul style="list-style-type: none"> • 26" (L) x 15" (W) x 13" (H) 	<ul style="list-style-type: none"> • All-in-one instrument: no external tubing, additional modules, or sheath tank • Compact for placement on benchtop or inside the tissue culture hood