

# SIMPLIFY YOUR SINGLE CELL WORKFLOW LIKE NEVER BEFORE.

## Meet the Uno Single Cell Dispenser™



## SIMPLIFY YOUR SINGLE CELL WORKFLOW WITH TECAN'S UNO SINGLE CELL DISPENSER

The Uno Single Cell Dispenser is an automated benchtop instrument designed for ease of use, efficiency, and precision in single-cell workflows. Uno empowers a wide range of single-cell applications across the “-omics” landscape, including single-cell proteomics, iPSC libraries, 3D cell research, cell-line development, and beyond.

With Uno, you can achieve accurate, viable, and precise single-cell dispensing, managing reagent volumes from picoliters to microliters within minutes.



### Your needs at the core



**Simple and accessible benchtop solution for labs of any size.**

Integrate intuitive software and compact hardware at a competitive price without compromising on performance.



**Fast and precise dispensing saves reagents with picoliter-level accuracy.**

Isolate single cells in ~5 minutes<sup>1</sup> and dispense reagents in under three minutes across a 384-well plate.



**Reliable dispensing process for reproducible results.**

Based on HP's proven microfluidic digital dispensing technology, a choice trusted by 1,000+ industry-leading customers.



**Gentle single-cell dispensing to preserve cell integrity.**

Maintain a robust 90% cell viability<sup>1</sup> for downstream analysis. Works with a wide range of cells and reagents.

<sup>1)</sup> <1 hour post-dispense

## PRODUCT FEATURES

### Uno Single Cell Dispenser Specification

Cell size range	9 µm to 25 µm
Cell types	Wide variety of cell types are tested
Qualified fluid classes	DMSO, Acetonitrile, aqueous solutions, aqueous 10 % trifluoroacetic acid (TFA), master mixes
Formats to dispense on	<ul style="list-style-type: none"> <li>• 12, 24, 48, 96, 384-well plates</li> <li>• Customizable substrate, such as microscope slides</li> <li>• Plate height 4-47 mm</li> </ul>
Cell isolating technology	Microfluidic technology
Dispensing speed	<ul style="list-style-type: none"> <li>• Cells: 384-well plate in ~5 minutes</li> <li>• Reagents: 384-well plate in &lt;3 minutes</li> </ul>
Cell viability	90 % <sup>2</sup>
Software	<ul style="list-style-type: none"> <li>• Intuitive and easy to set-up protocols</li> <li>• Automatically generates summary report, indicating wells with single cells</li> </ul>
Overall instrument dimensions	47 cm x 38 cm x 23 cm
Instrument weight	4.8 kg (10.58 lb)

<sup>2)</sup> At day zero



Uno Single Cell and Reagent Dispense Cassettes Specification



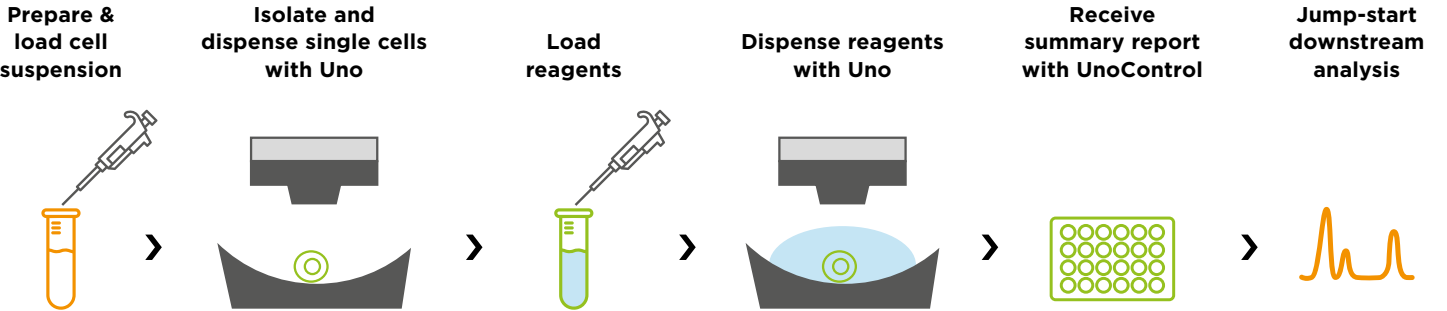
	C1a – Single Cell Dispensehead Cassette	T1sf / T1 Dispensehead Cassette	D1sf / D1 Dispensehead Cassette
Dispensing capability	Cell Dispensing Up to 400 single cells	Reagent Dispensing <ul style="list-style-type: none"><li>• T1sf: For aqueous solutions; requires no surfactant</li><li>• T1: For DMSO, Acetonitrile, aqueous solutions with surfactant</li></ul>	Reagent Dispensing <ul style="list-style-type: none"><li>• D1sf: For aqueous solutions; requires no surfactant</li><li>• D1: For DMSO, Acetonitrile, aqueous solutions with surfactant</li></ul>
Minimum dispense volume	40 pI	11 pI	1 nI
Fill cup size	20 µI	20 µI	200 µI
CV	≤ 8 % <sup>3</sup>	≤ 8 % <sup>3</sup>	≤ 8 % <sup>3</sup>

<sup>3)</sup> T1sf/D1sf: Volumes > 100 pI and test fluid of 100 % DMSO without other additives and for volumes > 3.6 nI and an aqueous test fluid with 0.1 % Brij 35 without other additives. T1/D1: Volumes > 10 nI and test fluid of 100 mM TEAB.

Featured Workflow

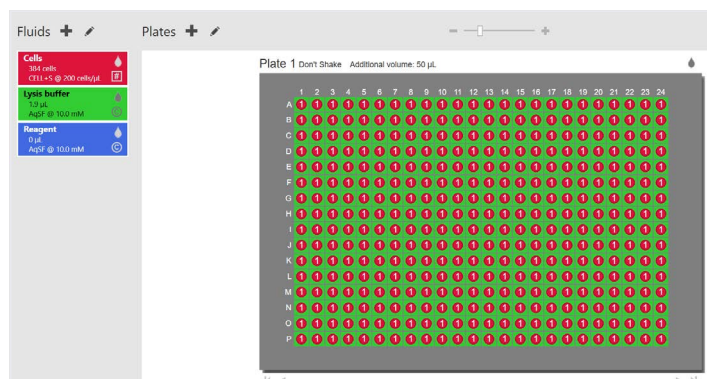
Uno’s advanced microfluidic technology enables the gentle isolation, precise dispensing of individual cells into dedicated wells, and accurate dispensing of essential reagents for subsequent sample preparation.

Here’s an example of how Uno fits into the single-cell proteomics workflow:

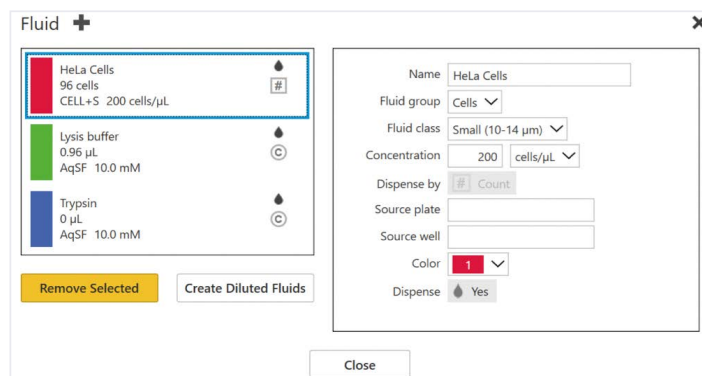


## UnoControl Software

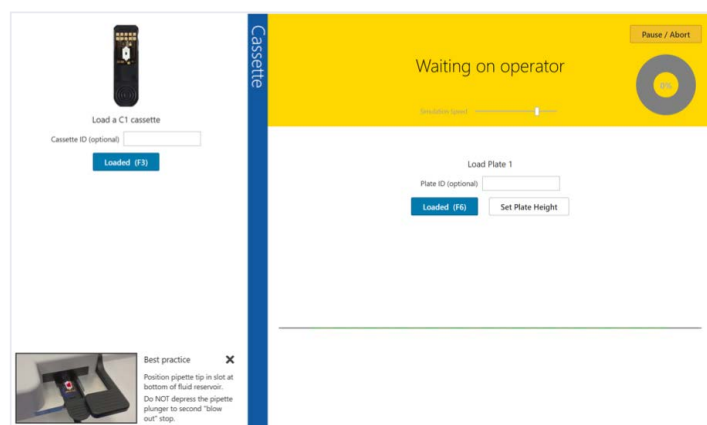
Designed with simplicity in mind.



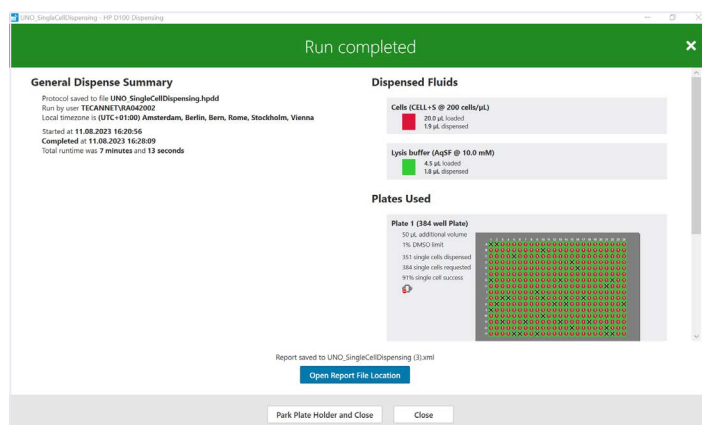
Intuitive fluid and plate definition enables protocol set-up in minutes.



The protocol set-up guide includes a wide range of qualified fluids classes, and covers four distinct cell size ranges.



Guided steps ensure precise execution of experiments, minimizing handling errors.



Gain instant insights with auto-generated summary reports that detail dispensed reagent volumes, plates and cassettes used, single-cell isolation success rate, and cell concentration.

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LEARN MORE



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