

4D-Nucleofector® Next Generation Quick Guide

Prior to first use please read the manual provided with the USB stick or at www.lonza.com/new-4d-nucleofector and read the safety instructions carefully.

Installation of units

1. Unpack the units
2. Connect the cables as shown
3. Switch on the device at the rear
4. Press the power button at the front

The core unit will automatically detect the functional units attached.



Starting an experiment



1. Pick the vessel type you will use in your experiment by tapping on the vessel symbol [A]
2. Select the wells to define by tapping on the well or dragging across the screen for definition of more than one sample at once
3. Press "Next" to see a summary of all defined wells (this step is
 - Pick sample type [B]
 - Choose pulse code and solution or pick a predefined cell type code
 - Press "Deselect" to remove the selection

only enabled if all selected samples are fully defined (Sample Type, Pulse Code and Solution))

4. Load the sample in the Nucleocuvette® Vessel
5. Press "Start" to run the experiment [C]

Document name: Cell Line Optimization 12:04 pm 22 February 2021

Setup 96-well Unit

Sample type: **Sample** No DNA No Prog.

Cell Type Code: Enter Cell Type Code

Pulse code: Enter pulse code

Solution: Cell Line SE

Clear OK

D

Using predefined and saved experiments

Document name: Exp_2021-Feb-02_06-55-01 12:22 pm 22 February 2021

Experiments 33 experiments found

Name	User	Cuvette	View
<input type="checkbox"/> Cell Line SE, Opt1 (X)	Lonza	X Unit Strip	View
<input type="checkbox"/> Cell Line SF, Opt1 (X)	Lonza	X Unit Strip	View
<input checked="" type="checkbox"/> Cell Line SG, Opt1 (X)	Lonza	X Unit Strip	View
<input type="checkbox"/> Endothelial, Basic (X)	Lonza	X Unit Strip	View
<input type="checkbox"/> Epithelial, Basic (X)	Lonza	X Unit Strip	View

Back Search Filter Import Export Load

Summary

Well	Cell Type Code	Solution	Pulse
A1	Jurkat E6.1 (new)	Cell Line SE	CK 116
A2	Jurkat E6.1 (new)	Cell Line SE	CK 116
B1	Jurkat E6.1 (new)	Cell Line SE	CK 116
B2	Jurkat E6.1 (new)	Cell Line SE	CK 116
C1	Jurkat E6.1 (new)	Cell Line SE	CK 116
C2	Jurkat E6.1 (new)	Cell Line SE	CK 116

Back Start

E

F

G

For 96-well Unit:

- switch between plate view and strip view for more details
- In plate view select the wells and tap on edit to define the sample (D)

1. Tap on the accordion symbol in the left top corner of the home screen
2. Select “Experiment”
3. Find the experiment by scrolling the screen or using the arrows at the right side
4. Choose the experiment by tapping in the checkmark box beside the experiment name (E)
5. Press “Load” (F)
6. Check the conditions defined and press “Next” to see a summary of all defined wells
7. Load the sample
8. Press “Start” to run the experiment (G)

The home screen

Document name: 10:04 pm 20 February 2021

Select a vessel to start an experiment

X Unit Strip X Unit Cuvette LV Unit 1mL LV Unit 20mL 96-well Unit

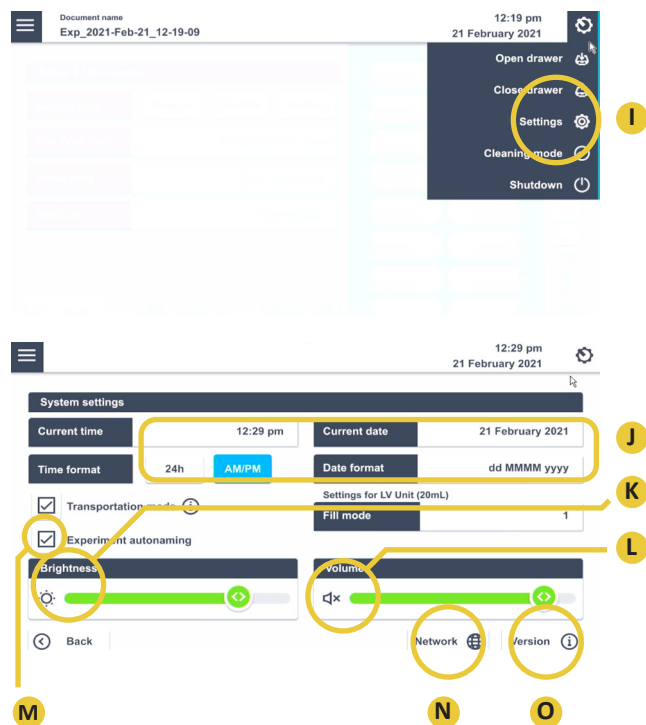
Top experiments Recent results Expand list open more

Name	User	Cuvette	Details	Export
Endothelial, Basic (X)	Lonza	X Unit Strip		
Exp_2021-Feb-10_11-54-49	User	X Unit Cuvette		
Exp_2021-Mar-23_10-55-41	User	96-well Unit		

H

1. You can reach the home screen any time by tapping on the accordion menu and selecting Home (H)
2. You can start a new experiment by tapping on the vessel type
3. Load experiments by selecting “Top experiments”
4. Change the settings by tapping on the gear symbol in the upper right corner and selecting “Settings”

System settings



1. By tapping the gear symbol and selecting “Settings” (I), the system settings screen is shown
 - Change time and date or time and date format (J)
 - Adjust display brightness (K)
 - Adjust volume or mute sound (L)
 - Select “Experiment autonaming” to automatically name the experiment with date and time created (M)
 - Check for Network (N)
 - Receive information on Firmware version (O)
2. “Open and Close Drawer” are only visible if a vessel was selected before tapping on the gear icon.
3. Shutdown will apply the transportation lock (only if not unselected in settings menu) and safely shutdown the 4D-Nucleofector® System

For detailed information download the manual at www.lonza.com/new-4d-nucleofector or find it on the USB stick provided with this device.

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