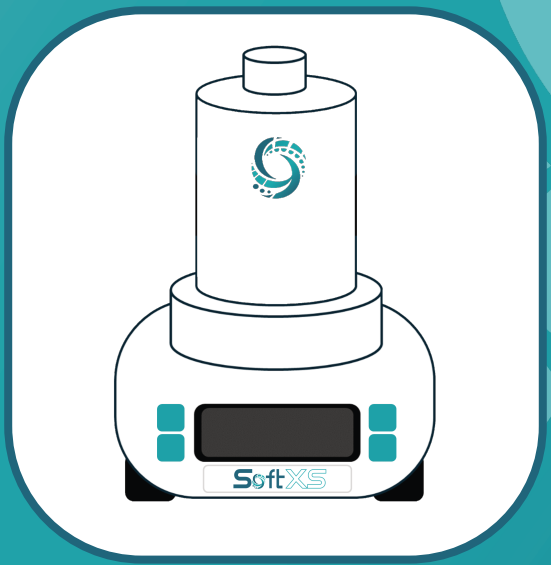
SoftXS™

Quick User Guide



Cellura

Starting guide

It is really simple to start the SoftXS, you just have to plug it !

Main menu

Program Start : Launch a program
Program Edit: Edit programs
Manual mode: Start a manual run without any program
Global settings: permits to adjust the tilt angle, to set the LED power, the acceleration speed and the sleep time.

Controls

The four buttons besides the screen are linked to functions represented in the corners.

For example, on main menu, use the two left buttons to move up and down from one line to the other and use the bottom right button to enter in a menu.

How to set a program

1. Go to «Program Edit».
2. Select the program that you want to edit.
3. Change the name by using the right arrow to select letters, then use «+» and «-» buttons to modify the name.
4. Once finished, click on «V» to confirm program's name
5. Now you can edit the different steps of your program:
    a. «St» column represents the step number and could not be modified. There are 20 step available for each programs
    b. «Sp» column represents the rotation speed from 0 to 99 rpm
    c. «A» column represents the acceleration speed from 1 to 9 (each unit represent an acceleration of 10rpm/s)
    d. Last columns «Day», «Hour» and «Min» represent the duration of the step (maximum 20 days for each step)
6. Use up and down arrows to switch between lines and right arrow to switch between columns
7. Use «+» button to increase scores from 0 to 9
8. Once your program is finished, maintain right arrow first and then press on the down arrow which are twinkling, to save your program.
9. «Program saving» should appear.
10. Your program is ready !

How to start a program

1. Go to « Program Start »
2. Select the chosen program
3. Once on the program screen:
   a. « LED » button permits to switch ON/OFF the LED
   b. « Total » line indicates the remaining time of the whole program
   c. « X/X » line indicates the current step and its remaining time
4. Click on « Start » to initiate the program
5. Speed and remaining time of the step are displayed
6. Press on « Stop » button to interrupt temporarily the current step
7. During the break you have access to several functions:
   a. Press on « LED » to switch ON/OFF the LEDs
   b. Press on « Abort » to exit the run. You can resume this program whether you come back to « Program Start »
   c. Press on « Skip » to jump to the next step
   d. Press on « Resume » to continue the current step

Manual mode

To launch quickly a run without any program.

1. Go to « Manual mode »
2. Select the speed using right arrow and « + » button to change value
3. You can switch ON/OFF the LED
4. Press « Start » button to begin the run or press « Exit » to go back to main menu

Global settings

In this menu, you have the possibility to set parameters.

Angle Adjust

As our technology is based on Earth's rotation principle, you should have a tilt angle to get turbulent mixing.

Thus, we add an inclinometer in the SoftXS in order to give you the current angle of the device.

Basically, we advise to use the SoftXS with an tilt angle between 3° and 5°, but you can adjust the angle from 0 to 8°.

1. Go to «Angle adjust»
2. Unscrew the feet on the back of the unit to adjust the angle
3. Lock the feet thanks to the blue screws.
4. Tilt angle adjusted !

LED Power

You can set the LED intensity from 0 to 100%

Acceleration

You can set the acceleration value for the manual mode from 1 to 9.
Each unit represents an acceleration of 10rpm/s.

Sleep time

Here you can set the duration before screen shut down.
Each unit represents one minute.

Recommendations of use:

The SoftXS technology is based on Earth's rotation movement that we mimic by respecting few critical parameters.

- Rotating speed
- Aspect Ratio : Heigh of liquid should be equal to vessel's diameter (1:1 ratio)
- Tilt angle

A preliminary study conducted by the client is required for any new protocol.

Usual recommendations for shear-limited mixing:

- We recommend to set the tilt angle on 3°.

- During all the experiment, ensure that the volume is adapted to the vessels because aspect ratio (1:1) is the critical parameter to respect.

- Recommended rotation speed regarding culture vessel:

  0,2L : 60 rpm

  0,5L : 45 rpm

  1,2L : 30 rpm

All these recommended parameters could vary depending on cell type (e.g. larger aggregates may require higher rotation speed to be resuspended)

Vessel Cleaning recommendations:

You can clean the culture vessels following your usual washing protocol.

However, do not use either ethanol or acetone. on polycarbonate, as it may cause cracking.

Sterilization Method:

You can sterilize your vessels by autoclaving at a maximum temperature of 121°C.

Technical specifications

Universal base Unit

Dimensions :

- Depth : 18cm
- Width : 14cm
- Height: 9cm
- **Weight** : 0.875kg

Power supply:

- Input: 100-240V AC, 50-60Hz
- Output: 9V DC 1A

Base unit input: 9V DC 0.5A, Cl. III

Rotation:

- Magnetic coupling
- From 0 to 99rpm speed range
- Program Edition

Made to use in an incubator:

- Indoor use
- Environmentally-sealed components
- From 0 to 100% humidity (condensing)
- From 16°C to 40°C

Multi-Use Vessel

(0,2 ; 0,5 & 1,2L)

Vessels (WV):	0,2L	0,5L	1,2L
• Diameter (mm)	70	90	120
• Height (mm)	155	175	200
• Weight (g)	140	220	400

Specificity

- Vented-cap: Gas diffusion throught 0,22µm PVDF filter
- Autoclave Sterilization at 121°C
- Illumination of vessel with 4 white LEDs

Research Use Only