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LACTOSCAN SCC
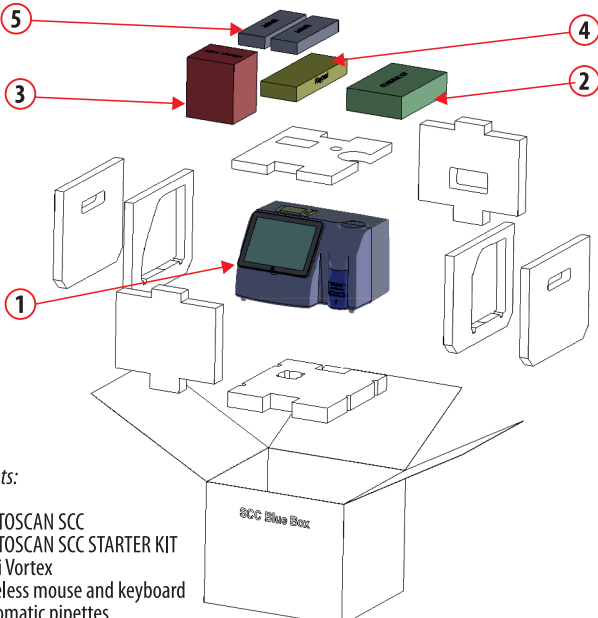
**SOMATIC CELL COUNTER based on
Direct Fluorescent image low magnification
microscopic recognition method**

Quick Start Guide

1 UNPACKING INSTRUCTIONS

Contents:

1. LACTOSCAN SCC
2. LACTOSCAN SCC STARTER KIT
3. Mini Vortex
4. Wireless mouse and keyboard
5. Automatic pipettes

2 SAFETY INSTRUCTIONS

1. Read this manual carefully and make sure that you understand all the instructions.
2. For safety purposes the device is equipped with grounded power cable.
   If there is no grounded electrical outlet where the device will be used, please, install such before using the device.
3. Place the device on leveled and stable plate.
4. This device works with aerial cooling, which means that its surface is heated up.
   When you install it, make sure there is nothing around it at 10 cm (4 inches) radius.
5. Never put any metal objects in the aerial fan, because this may cause electrical shock, physical or device damage.
6. Connect to the electrical network in such way that the power cable to stay away from the side for accessing the device and not to be stepped on.
7. Always make sure the main switch is in position "OFF" before connecting it to the electrical network.
8. In case of damaged device, turn it off and contact the authorized service.
   Do not disassemble the device. If you do so, the warranty will not be considered valid.
9. Use only the authorized accessories (USB flash drive, LACTOCHIP, wireless keyboard and mouse).
10. In case of smoke coming out of the device, turn in off and contact the authorized service.

3 ASSEMBLING THE DEVICE

Open the box. Carefully take out the contents of the box.
Place the machine on flat level surface.

4 SWITCHING ON THE SYSTEM

1. Plug in the somatic cell counter power supply in one of the back panel inlets.

2. Plug in any USB device which will be needed (keyboar, mouse, etc.) in the USB connector.
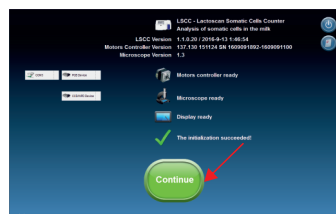
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3. Switch on LACTOSCAN SCC from the ON/OFF button on the back panel.
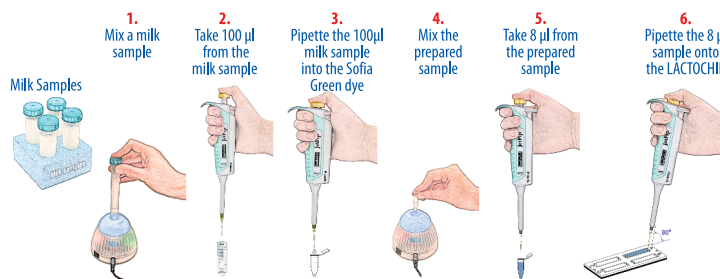
4. Power on the tablet.

5. Wait until software opens.

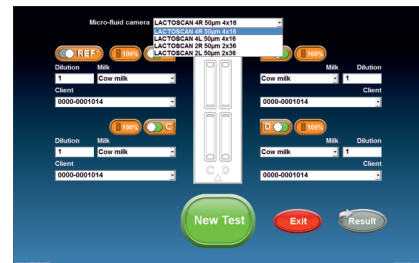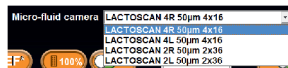6. If everything is ready, you should receive status "The initialization succeeded!"

7. Switch to Main display menus, by pressing the button "Continue".

8. Prepare a milk sample and load it in a LACTOCHIP.

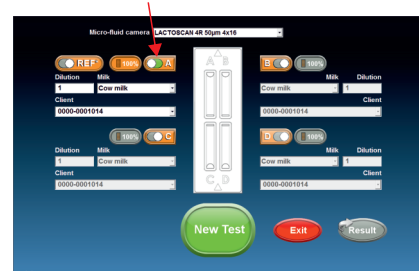| **1.** Mix a milk sample	**2.** Take 100 µl from the milk sample	**3.** Pipette the 100µl milk sample into the Sofia Green dye	**4.** Mix the prepared sample	**5.** Take 8 µl from the prepared sample	**6.** Pipette the 8 µl sample onto the LACTOCHIP

Milk Samples

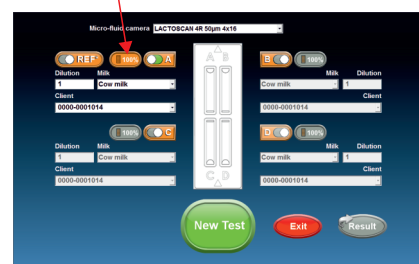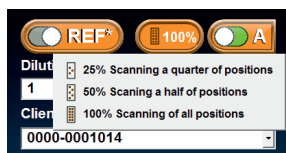
9. Choose the type of chip from the drop-down menu.

10. All the micro fluidic chambers of the LACTOCHIP are selected. If you want to use only 1 or 2, by using buttons [A] [B] [C] [D] deselect the chambers which you will not be using in this test.

11. For a quick analysis, press button [100%] and select a test from the drop-down menu.

25% Scanning a quarter of positions
50% Scanning a half of positions
100% Scanning of all positions

12. Complete the value of the dilution's
multiplier in field

> 1

For milk with FAT:

- **Up to 5 %**, the value of the multiplier for **dilution is 1**, as the milk is added directly
to the lyophilized dye in the micro tube.
- **Above 5 %**, the value of the multiplier for **dilution is 2**, because, for example,
in case of measurement of milk with FAT more than 5 %, for example **buffalo milk**,
it is necessary the milk sample to be diluted with water in ratio 1:1.
Then 100 μL of it is taken and added to the lyophilised dye.
Adding water prevents difficulties in milk samples entry into the microfluidic chamber.
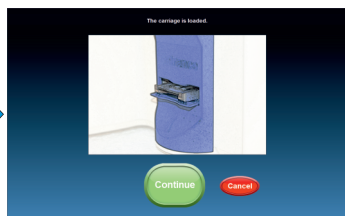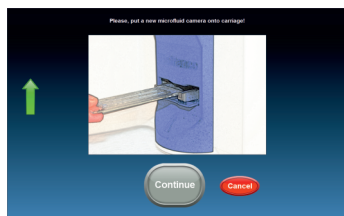
13. Choose the type of milk
from the drop-down menu.

13. Enter the name
of the supplier
or choose from
the drop-down
menu.

14. After the information for all the samples is entered, press **New Test** in order to proceed
with the analysis. On the screen a message will be displayed, showing that the cartridge
for placing the LACTOCHIP comes out of the door.

Pressing **Cancel** will revert to the Main screen.

15. Place LACTOCHIP into the cartridge and press **Continue**

16. The device is making the analysis
of the samples.

17. After the test is completed,
the results can be:

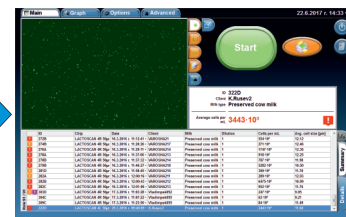printed by pressing button

saved by pressing button **SAVE and exit**
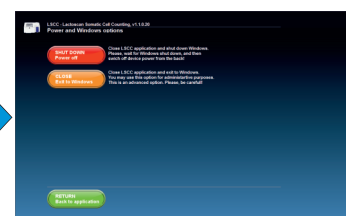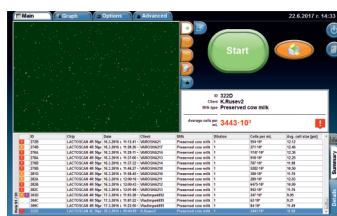
or by pressing button **Cancel**

can be continued with the analysis
of new samples without saving the results.

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18. Take the LACTOCHIP out and press button **Continue** to go back to the Main screen.

5   TURNING OFF THE SYSTEM

1. In order to proceed to the screen Switch off, press the button

2. In order only to exit the device's program, proceed to
the OS Windows, and press   **CLOSE Exit to Windows**

3. In order to turn off the program and the operational
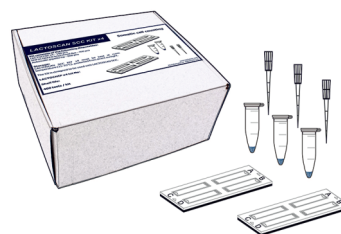system of the device, press   **SHUT DOWN Power off**

Attention!
Always turn off the device at the end of the working day or after finishing work with the SCC.

4. To go back to the program, press   **RETURN Back to application**
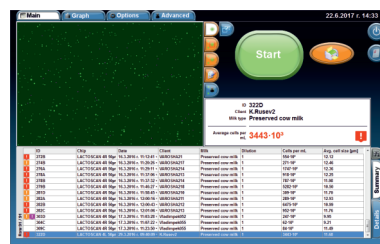
6   CONSUMABLES

LACTOSCAN SCC KIT X4

7   MORE INFORMATION

You can download the Instruction Manual of LACTOSCAN SCC from our
website *http://lactoscan.com/editor/ufo/manuals/SCC/IM_SCC_EN.pdf* .

You can also find it in Help Menu of the somatic cell counter by pressing

button   located on Main screen.

8   SUPPORT

For any additional information and further question regarding the servicing of the device,
contact us at: *mainservice@lactoscan.com*

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