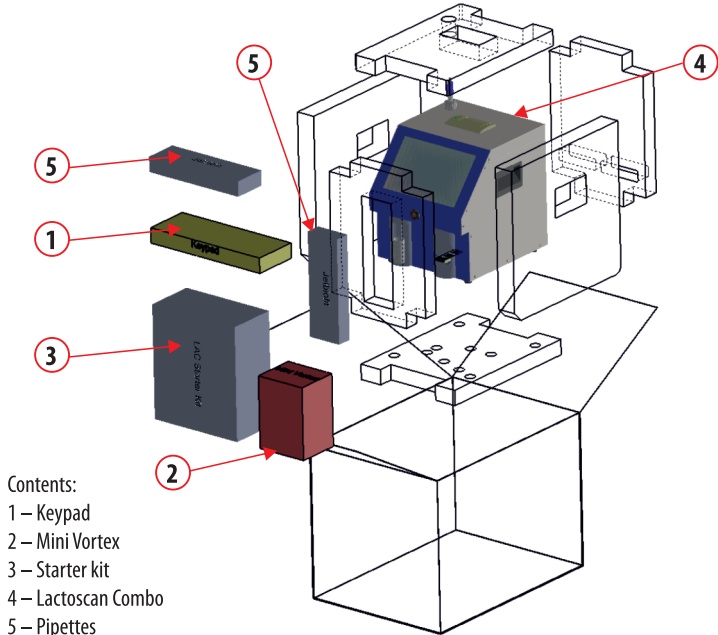


LACTOSCAN COMBO

Accurate Somatic cells counter &
Ultrasonic milk analyzer in one device
Quick Start Guide

1 UNPACKING INSTRUCTIONS



- Contents:
1 – Keypad
2 – Mini Vortex
3 – Starter kit
4 – Lactoscan Combo
5 – Pipettes

2 SAFETY INSTRUCTIONS

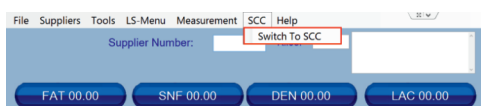
1. Read this manual carefully and make sure that you understand all the instructions.
2. For safety purposes the device is equipped with grounded power cable. If there is no grounded electrical outlet where the device will be used, please, install such before using the device.
3. Place the device on leveled and stable plate.
4. When you install the device, make sure there is nothing around it at 10 cm (4 inches) radius.
5. 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.
6. Always make sure the main switch is in position "OFF" before connecting it to the electrical network.
7. 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.
8. Use only the authorized accessories (USB flash drive, LACTOCHIP, wireless keyboard and mouse).
9. In case of smoke coming out of the device, turn it 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.

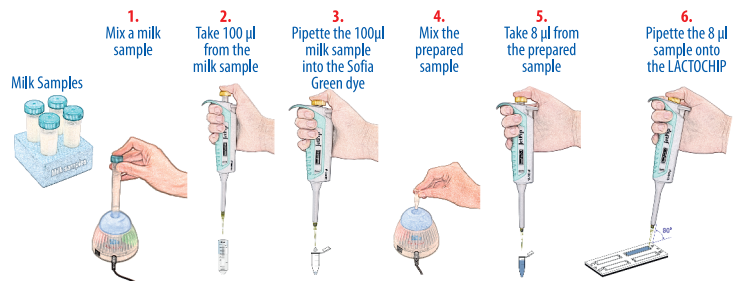
4 SWITCHING ON THE SYSTEM

1. Plug in the device's power supply in one of the back panel inlets.
2. Plug in any USB device which will be needed (keyboard, mouse, etc.) in the USB connector.
3. Switch on LACTOSCAN COMBO from the ON/OFF button on the back panel.
4. Power on the tablet.
5. Wait until the software opens.
6. If the device is in milk analyser mode, pressing the button marked in red will run the SCC mode.

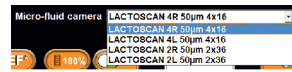


5 SOMATIC CELL COUNTER MODE

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



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

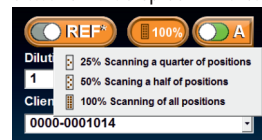


3. All the micro fluidic chambers of the LACTOCHIP are selected. If you want to use only 1 or 2, by using buttons



deselect the chambers which you will not be using in this test.

4. For a quick analysis, press button **100%** and select a test from the drop-down menu.



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



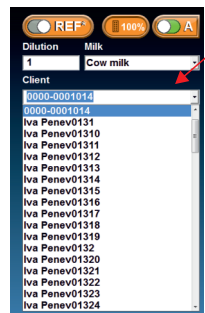
For milk with FAT:

- **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.

6. Choose the type of milk from the drop-down menu.



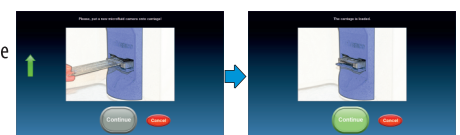
7. Enter the name of the supplier or choose from the drop-down menu.



8. 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.

9. Place LACTOCHIP into the cartridge and press



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



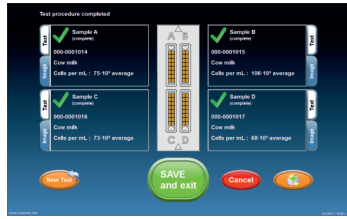
11. After the test is completed, the results can be:

printed by pressing button

saved by pressing button

or by pressing button

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

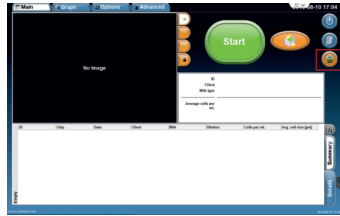


12. Take the LACTOCHIP out and press button to go back to the Main screen.

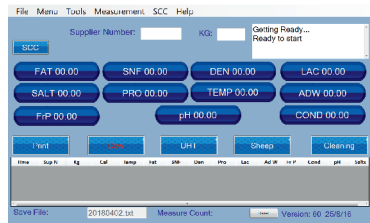


6 ULTRASONIC MILK ANALYZER MODE

1. While the device is in SCC mode, pressing the button marked in red will run the milk analyser mode.

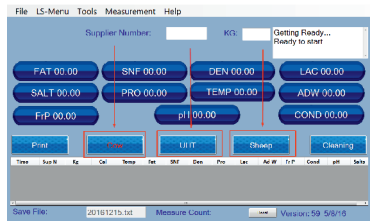


2. Main menu in mode ultrasonic milk analyzer:



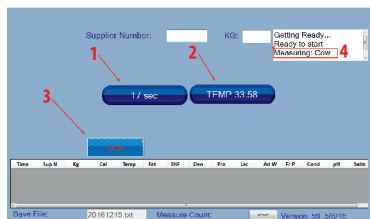
3. Fill the glass with a milk sample and place it on the white holder in the analyser, paying attention the long pipe to be in the milk, while the short one not to be covered with milk.

4. Start a measurement by pressing the calibration name on the screen for the type of milk you are going to measure (if you are measuring cow milk, press the Cow Button)



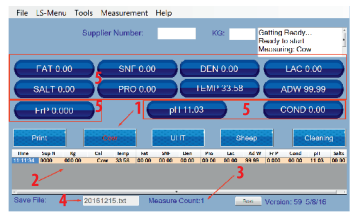
5. When the measurement is started on the screen appears

Where:
Position 1: The seconds left until the measurement is finished.
Position 2: Temperature of the sample.
Position 3: The calibration channel that is being used.
Position 4: Message about what calibration you are using for measurement.

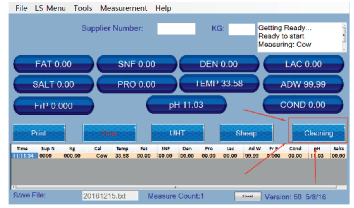


6. When the measurement is finished on the screen appears:

Where:
Position 1: Highlighted the last used calibration.
Position 2: Result collector for all the measurements done since the start of the program.
Position 3: Measure count since the start of the program.
Position 4: Archive file for the results.
Position 5: Fields for the parameter results of the last measurement.



7. Continue work by placing a new sample in the glass and press the calibration buttons.
8. When finished work put clean water in the glass and start cleaning by pressing the cleaning button.
9. Please refer to the user manual about the proper way of cleaning the machine.



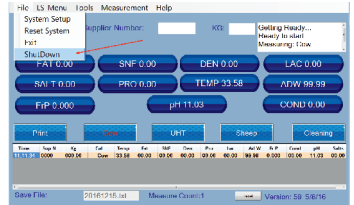
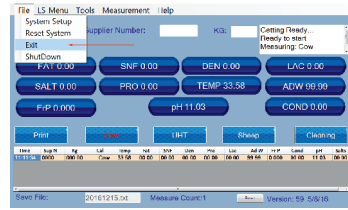
IMPORTANT THE MAIN REASON FOR MALFUNCTIONING OF THE DEVICE IS THE BAD CLEANING OF THE SYSTEM AFTER MAKING ANALYSIS. In case of malfunction due to the bad cleaning of the analyser your guarantee is not valid anymore and any repair has to be paid.

7 TURNING OFF THE SYSTEM

1. Turning off in Somatic cell counter mode:
To turn off the program and the operational system of the device, press

2. Turning off in Ultrasonic milk analyzer mode:
To turn off the tablet, select

File-> Shutdown



To exit the program, select **File->Exit** to close the software to use the tablet

3. Turn off the device from the back panel switch.

*Note: If you have any questions regarding any of the procedures, please contact Milkotronic Ltd.

8 OPTIONS AND ACCESSORIES

Bar-code reader (USB)



Wireless keyboard and mouse (USB)



External Standard Printer



Vortex mixer



Remote display (serial)



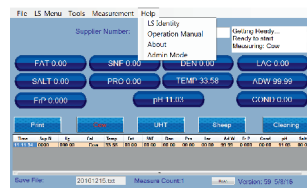
Platform scales (serial interface)

9 MORE INFORMATION

You can download the Instruction Manual of the device from our website http://lactoscan.com/editor/ufo/manuals/COMBO/IM_COMBO_EN.pdf

You can also find it in the Help Menu of the analyser:

You can also find it in Help Menu of the somatic cell counter by pressing button located on Main screen.



The Instruction Manual of the Data Base Application can be downloaded from the Help Menu of the analyser.

10 SUPPORT

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

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