

INTEX[®] Densitometer

Operating Manual



CE 0123

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!Warning! Please read carefully before using the device!

Read and follow always the instructions given in this operating manual.

- Never use accessories or test cards from other producers.
- The stated accuracy of measurement can only be achieved, if the device is stored and used at a temperature range between 15-30 °C. If there is a significant difference in temperature between the stock location and the location where it is used, we recommend that you should wait between 20-30 minutes before using the device.

1. Description of the Densitometer

The INTEX[®] Densitometer (figure 1) is used for the readout of the INTEX[®]-CRP Card quantitative test cards. The device measures the CRP-concentration in mg/L.

To make any necessary adjustments you have to use the four arrow keys and the test/enter key in a simple menu.

The INTEX[®] Densitometer operates as a reflection photometer: In the measuring unit the test area of the test card is being irradiated with white light and the reflected light of the test card is measured by a CCD-sensor. The signal is digitized by means of an analog-digital conversion. The digitized image is then processed by the implemented software. The CRP-concentration is calculated on the basis of the information of the reflected light. The result will be indicated in mg/L CRP on the display. The measurement range is between 8-200 mg/L. At lower concentrations the output on the display is „< 8 mg/L“.

The device is designed only for use by professionals!

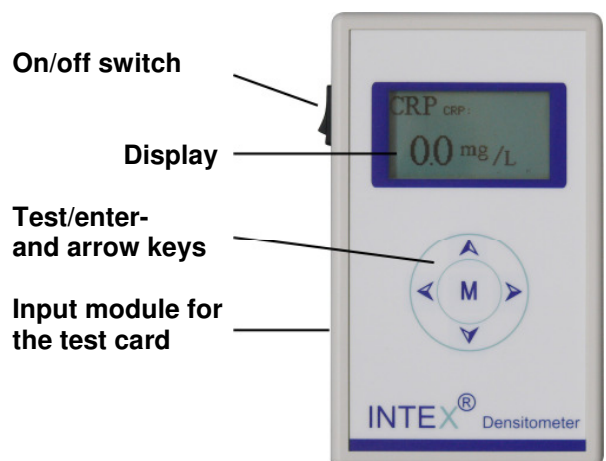


Figure 1: Parts of the densitometer

2. Installation

The device is operated by four 1.5 V AA batteries. Open the covering on the back side of the device to insert the batteries (see figure 2). The on/off switch is located on the left side surface.



Figure 2: Back side of the densitometer

3. Menu

The menu of the INTEX[®]-CRP densitometer consists of four submenus, which can be accessed with the arrow keys. After the switching-on of the densitometer und by pressing the arrow key on the right hand side, the following submenus will appear:

- 1 **CRP konz:** On the CRP card measured CRP concentration in mg/L.
- 2 **CRP Calibration:** Only calibration with 50 mg/L CRP calibration card. OPTIONAL!
- 3 **CRP C-Clear:** Reset INTEX[®]-CRP densitometer to initial configuration.
- 4 **CRP Version:** Installed software version on the INTEX[®]-CRP densitometer
- 5 **CRP Reflection:** Real amount of reflection (only relevant for the producer)

Menu arrow keys



Figure 3: Menu arrow keys of the densitometer

4. Measurement

The Measurement of the INTEX[®]-CRP card quantitative has to occur 1-2 minutes after the last washing step. Later the measurement is no longer valid. Turn on the densitometer. On the display „CRP: mg/L“ will appear. Insert the test card as shown in figure 3 and 4 as far as it will go into the opening of the densitometer. The test card has to be plugged-in up to approximately 2.5 cm into the opening. By latching you will feel a little resistance. Push afterwards the measurement (M)-key. The measurement result will appear after about 3 seconds on the screen. You can now unplug the test card again. Further measurements can be made. Do not forget to switch-off the densitometer after the last measurement.



Figure 4: Insertion the test card



Figure 5: Measurement

5. Technical Specifications

Technology	Reflection Photometer
Detection	CCD Image Editing
Size	95 x 155 x 35 mm
Weight (with batteries)	250 g
Power Supply	4 x 1.5 V AA Batteries
Optimal Temperature Range	15-30 °C
Relative Humidity	20-80%

6. Shipment/Delivery

Densitometer	1 unit
1.5 V AA Batteries	4 units
Operation Manual	1 unit