Product webpage

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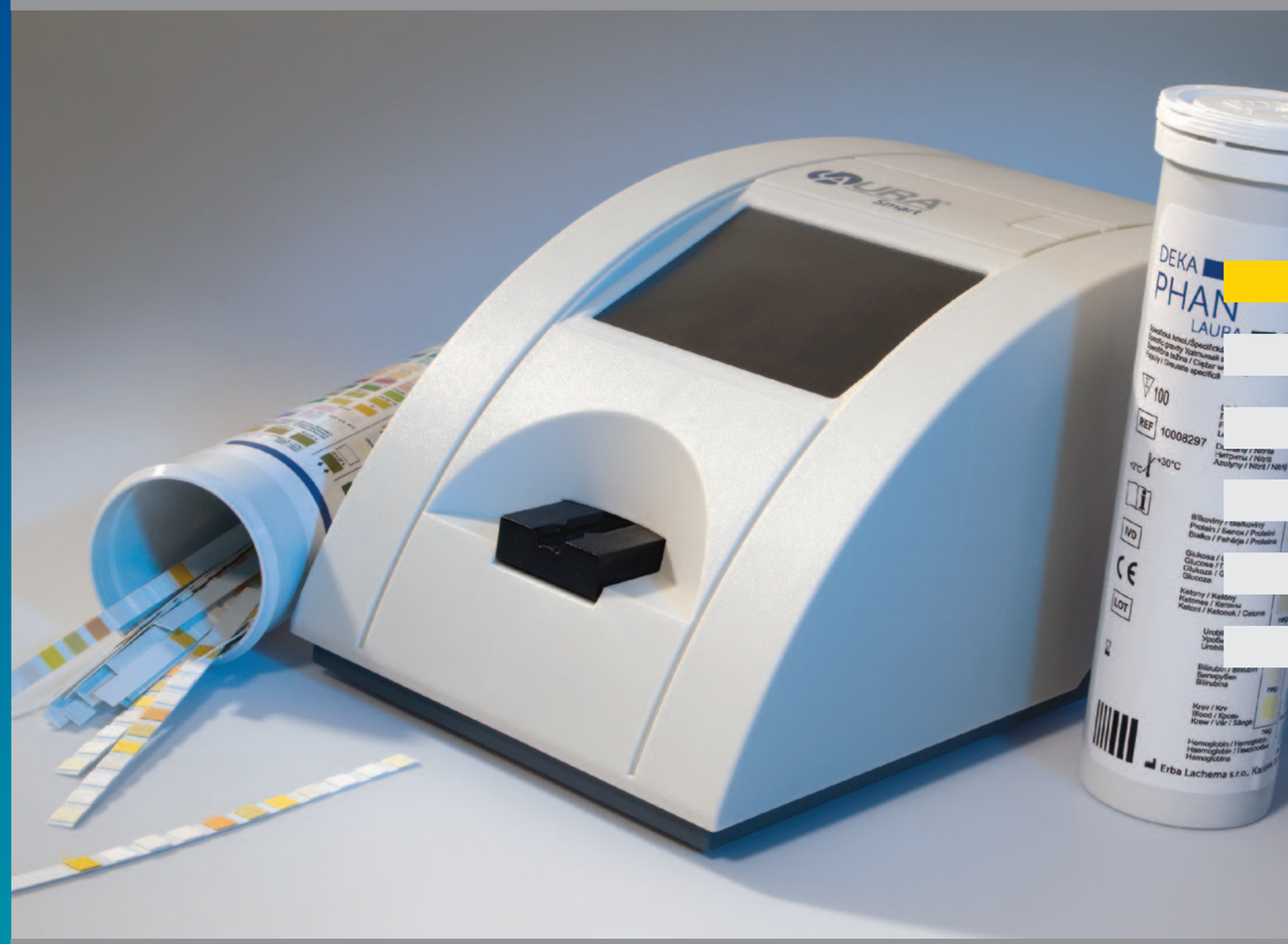
LAURA® Smart

Swift Urine Analysis

Erba Lachema®



The Smart Set Urine Analysis

A MEMBER OF Erba® Mannheim

LAURA® Smart

The Smart Set Urine Analysis

LAURA® Smart is an effective and powerful solution for the analysis of urine, which is designed for laboratories, ambulances of general practitioners, family doctors and specialists. Evaluation of the urine with **LAURA® Smart** reader helps to eliminate any subjective interpretation of the colour reaction of the diagnostic pads and therefore remarkably contributes to the correct diagnostic of the patients.

LAURA® Smart measurement modes

Two possibilities of incubation
Inside of the reader – the measurement capacity is 60 strips / hour
Outside of the reader – the measurement capacity is till to 240 strips / hour

Special function Smart Timing®

The goal of Smart Timing® function is to support the user in the case of strips' incubation outside of the **LAURA® Smart** reader. There are 4 independent colour timers (progress bars) displayed on the screen of the reader. The user may use any of the four displayed timers which correspond with position one of the incubated strips as follow. The user can dip a new strip if the respective timer on the screen is green, after dipping the user places the strip in the corresponding position and starts the timer (by pressing the respective green bar on the screen). The timing starts, the progress bar turns to yellow, after 45 sec. the progress bar turns to red and beeps. Then the user has to place the strip onto the reader strip holder and the reader measures the strip at 60 sec.

The SW enables (turns to green) a new timer in every 15 sec.; so 4 strips could be measured in 1 minute (240 strips / hour).

LAURA® Smart benefits

- **The LAURA® Smart automatically recognise which type of PHAN® LAURA strip is measured**
- **Double possibilities of power: Portable mode – batteries supply (6 x 1.5 V – type AA) Stationary model – electric power**
- **Touch screen**
- **Possibility of connection to the PC or to the laboratory information system (LIS)**
- **Possibility of connection of the bar code reader (BCR) or of the external keyboard**
- **The wide choice software menu with a number of settings possibilities according to the user needs**

- **The user has possibility to choose from different ways of entering the patients' samples**
- **The user has possibility to choose measuring units of every analysed parameter**
- **The user has possibility to add a short text comment to the each measured result**
- **The reader has the user-friendly operation menu**
- **The results may be printed on a built-in thermo printer with speed 2 sec. / parameter**
- **The reader is equipped with standard RS232 and USB connectors**

Control and calibration

LAURA® Smart is **calibrated automatically** after every switch on. The optical parts may be calibrated additionally by request, the calibration process is controlled by special software mode with using the grey control strips.

Combination of parameters on the test strips PHAN® LAURA intended for **LAURA® Smart:**

	Leukocytes	Nitrite	pH	Protein	Glucose	Urobilinogen	Bilirubin	Ketones	Blood	Specific gravity	Microlabumine	Creatinine	Compensation field
DekaPHAN® LAURA	●	●	●	●	●	●	●	●	●	●			●
HeptaPHAN® LAURA			●	●	●	●	●	●	●				●
PentaPHAN® LAURA			●	●	●			●	●				●
DiaPHAN® LAURA					●			●					●
MicroalbuPHAN® LAURA											●	●	●

TECHNICAL SPECIFICATION

Description of the device:

- Semi-quantitative reflectance photometer
- Measuring using LEDs and colour detector
- Wavelengths: 470, 540, 650 nm
- Latency: 55 s
- Capacity: 60 strips per hour or 240 strips per hour with using the Smart Timing®
- Touch screen (LCD display): 320 x 240 colour TFT
- Built-in thermo printer, 2 sec. / parameter
- External communication to PC / LIS via RS232 or USB port
- Possibility to connect an external keyboard or a bar code reader (BCR)
- Memory capacity: last 240 measurements
- Languages for end-users: EN, DE, FR, IT, RU, PL, CZ, HU, PT

Working conditions:

- External power source 7.5 V DC switch adapter 100 – 240 V / 50 – 60 Hz
- Internal power source – battery 6 x 1.5 V (type AA)
- Power consumption: 20 W max. / 1 W standby
- Temperature: optimum range 20 – 25 °C, relative humidity: 20 – 80 %
- Weight: 0.8 kg without adapter, battery and paper roll
- Dimensions: 230 x 127 x 110 mm