LAURA® SMART

Compact Urine Strip Reader

New!

Technical Specification

- Semi-quantitative reflectance photometer
- Optical unit: LEDs and colour detector
- Wavelengths: 470, 540, 650 nm
- Incubation period: 55 s
- Capacity: 60 strips per hour in Standard mode or 240 strips per hour with in Smart Timing® mode
- Touchscreen: color TFT LCD display
- Built-in thermal printer
- Host interface: RS232, USB
- Possibility to connect external keyboard or a barcode scanner via PS/2
- Memory capacity: last 360 results

Ordering Information

Product Code	Product	Pack Size
165470	LAURA® Smart	1 piece
131552	DekaPHAN® LAURA	100 strips
131553	MicroalbuPHAN® LAURA	50 strips
131555	Urinorm Control	2 x (3 x 15 ml)
132156	Control strips for LAURA® Smart	3 strips

TBM/URI/LS/BRO/05-03-2016/V1

Urine Analysis: Simple, Quick & Smart

CE UL REGISTERED FIRM UKAS QUALITY MANAGEMENT 4426

CE

LAURA® SMART

Objective and compact solution for urine analysis

Urine strip reader LAURA® Smart is an efficient and compact solution for routine chemical urinalysis. Be it in a clinical laboratory or in the mobile clinics, a diabetologist, a nephrologist or other specialist, the objective photometric evaluation and semi-automated technology provided by LAURA® Smart will ease the processing of samples and contribute to correct diagnostics of the patients.

LAURA® Smart comes from the ERBA LACHEMA Group which has 40 years of experience in the development and manufacture of urine analyzers and strips. ERBA LACHEMA provides high quality and easy accessible products for reliable, quick and comfortable analysis. This enables right diagnostics and shortens time of a patient's treatment.

Main features of LAURA®Smart:

- Two measuring modes: Standard (60 samples/h) and Smart Timing (240 samples/h)
- Portable mode using batteries
- Easy operation via touchscreen
- Simple maintenance
- Strip type flexibility
- Smart sample identification: sequential, sample ID
- Automatic compensation of a typical sample color
- Built-in thermal printer
- LIS / HIS connectivity
- External keyboard and barcode reader connectivity
- Automatic self-check at each initialization
- Compatibility with Erba Lachema and third party liquid controls

Smart Timing® mode

Smart Timing® is a special working mode of LAURA® Smart that provides an elevated throughput of 240 samples per hour. While in Standard mode 1 strip incubation is counted at a time, in Smart Timing® mode, 4 incubation periods are counted in parallel, enabling a four times higher throughput. The process is aided by a smart timer function of the software and a strip scheduler tray where always 4 strips can be kept prepared according to the sequence of the timers. Every 15 seconds, one of the 4 timers change color and gives a beep signal to indicate that a new strip should be placed for measurement.

Control, calibration and maintenance

LAURA® Smart performs a simple and fast automatic self-check and calibration at each start-up. If a more sophisticated quality control of the optical system is required, special control strips and a special software mode are provided to perform control measurement. To verify the precision and accuracy of both the reader and the strip at the same time, quality check using liquid controls is available. URINORM is the liquid control offered by Erba Lachema for the PHAN® urine strips and the LAURA® urine strip readers, however different third party liquid controls are also applicable.

Proper hygienical condition of the device can be maintained with a simple and fast daily cleaning procedure.

Strip type flexibility

To cover the full range of routine chemical urinalysis, LAURA® Smart is compatible with different types of urine test strips. The strip type being used is automatically identified by the reader, no manual setting is needed.

	Leukocytes	Nitrite	pH	Protein	Glucose	Urobilinogen	Bilirubin	Ketones	Blood	Specific gravity	Microalbumin	Creatinine	Compensation field
DekaPHAN® LAURA	●	●	●	●	●	●	●	●	●	●			●
MicroalbuPHAN® LAURA											●	●	●

Working conditions:

- Power source: Normal mode: 9 V DC switch adapter, AC 90 – 230 V / 50 – 60 Hz
  Portable mode: 6 x 1.5 V (type AA) batteries
- Power consumption: 20 W max. / 1 W standby
- Temperature: 20 – 25°C
- Relative humidity: 20 – 80 %
- Weight: 0.8 kg without adapter, battery and paper roll
- Dimensions: 230 x 127 x 110 mm