

LAURA[®] S M A R T

Compact Urine Strip Reader



Urine Analysis: **Quick, Simple, 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 a clinical laboratory or the ambulance of a GP, 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 diagnosis of the patients.

Key Features

Two measuring modes: Standard (60 samples/h) and Smart Timing (240 samples/h)



Portable mode using batteries

Easy operation via touchscreen



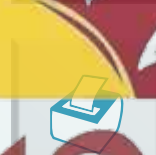
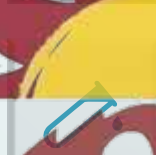
Simple maintenance

Strip type flexibility



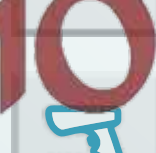
Smart sample identification: sequential, sample ID

Automatic compensation of a typical sample color



Built-in thermal printer

LIS / HIS connectivity



External keyboard and barcode reader connectivity

Manual entry of sample color and turbidity with customizable category names



Automatic self-check at each initialisation

Easy and quick quality check with control strips



Compatibility with Erba Lachema and 3rd party liquid controls

Sample identification made easy

LAURA® Smart offers two different sample identification modes:

Sequential: a sequence number is automatically assigned to each sample

Sample ID: a unique ID number can be entered for each sample either manually or by means of external keyboard or barcode reader

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											●	●	●
TetraPHAN SG LAURA			●	●	●					●			●



Working Conditions

- Power source: Normal mode: 9V 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: 0.8kg without adapter, battery and paper roll
- Dimensions: 230 x 127 x 110 mm

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 changes color and gives a beep signal to indicate that a new strip should be placed for measurement.

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 3rd party liquid controls are also applicable.

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

Technical Specifications

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 (320 x 240 pixels)

Built-in thermo printer

Host interface
Rs232, USB
Possibility to connect external keyboard or a barcode scanner via PS/2

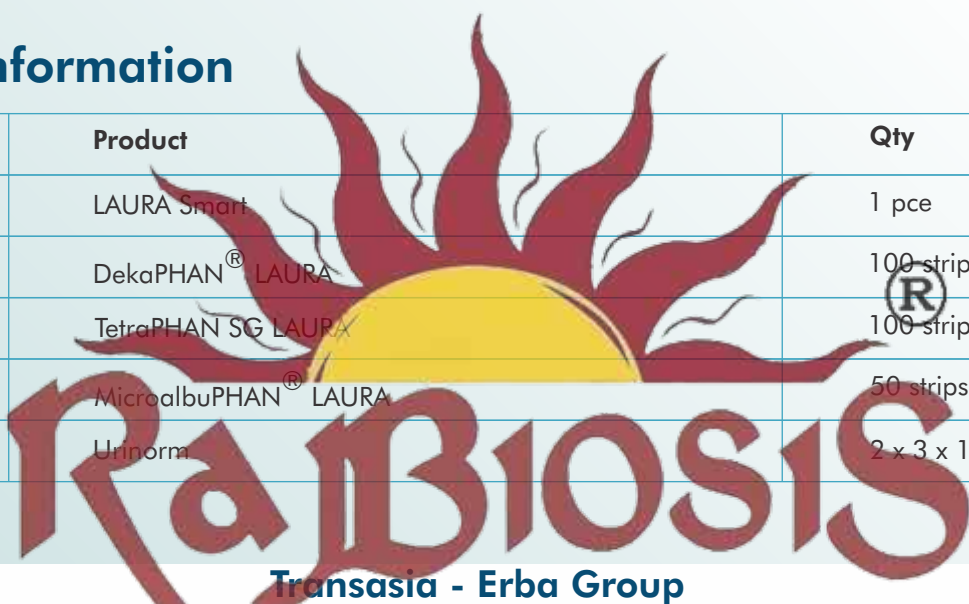
Memory capacity
Last 400 results

Languages for end-users
EN, DE, FR, IT, RU, PL, CZ, HU, PT

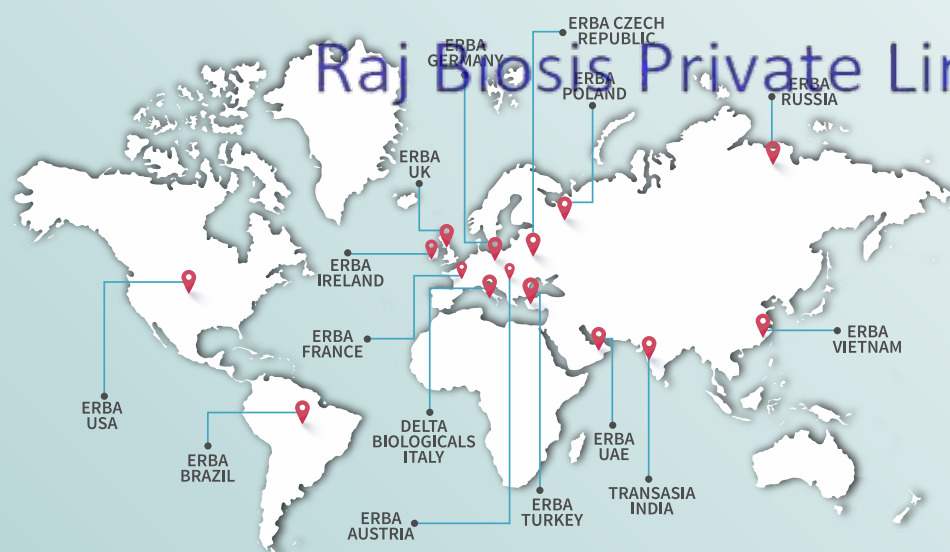
* Specifications are subject to change without prior notice.

Ordering Information

Cat. No.	Product	Qty
165470	LAURA Smart	1 pce
131552	DekaPHAN® LAURA	100 strips
132153	TetraPHAN SG LAURA	100 strips
131553	MicroalbuPHAN® LAURA	50 strips
131555	Urinorm	2 x 3 x 15ml tubes



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