



# MEET THE LAURA<sup>®</sup> SMART

Compact urine strip reader



Making Automation Affordable  
for Labs Everywhere

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# LAURA<sup>®</sup> SMART

Objective and compact solution for urine analysis

**Urine strip reader LAURA<sup>®</sup> 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<sup>®</sup> Smart will ease the processing of samples and contribute to correct diagnosis of the patients.

## Main features of LAURA SMART reader

- Two measuring modes: Standard (60 samples/h) and Smart Timing<sup>®</sup> (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 atypical 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



## STRIP TYPE FLEXIBILITY

To cover the full range of routine chemical urinalysis, LAURA<sup>®</sup> 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.

	SG	LEU	NIT	pH	PRO	GLU	KET	U BG	BIL	BLD	MA	CRE	CP
DEKAPHAN LAURA	●	●	●	●	●	●	●	●	●	●			●
HEPTAPHAN LAURA				●	●	●	●	●	●	●			●
PENTAPHAN LAURA				●	●	●	●			●			●
TETRAPHAN SG LAURA	●			●	●	●							●
MICROALBUPHAN LAURA*											●	●	●

\* Albumin/Creatinine ratio is calculated automatically for each measured urine sample.

# Key features of LAURA® SMART

## 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.

## 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

## 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 PHAN® urine strips and the LAURA® urine strip readers, however different 3rd party liquid controls are also applicable

## SIMPLE AND FAST DAILY CLEANING

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



# TECHNICAL SPECIFICATIONS

SYSTEM INFORMATION		
Parameters	Dimensions	
Specific gravity, leucocytes, nitrite, pH, protein, glucose, ketones, urobilinogen, bilirubin, blood, microalbumin, creatinine (incl. ALB/CRE)	Width	230 mm
	Depth	127 mm
	Height	110 mm
	Weight	0.8 kg
Method	Incubation period:	Interface
Reflectance photometry	55s	RS232, USB
Memory	Wavelengths	Printer
360 results	470, 540, 650 nm	Built-in thermo printer
Connectivity	Touchscreen	Working Conditions
Connect external keyboard or a barcode scanner via PS/2	Color TFT LCD display (320 x 240 pixels)	Temperature 20 – 25 °C Humidity 20 – 80 %
Capacity	Languages	Power
60 strips per hour in Standard mode or 240 strips per hour in Smart Timing® mode	EN, DE, FR, IT, RU, PL, CZ, HU,, PT	9V DC switch adapter, AC 90 - 230V / 50 - 60Hz Portable Mode: 6 x 1.5 (type AA) batteries
Power Consumption	Temperature	Relative Humidity
20 W max. / 1 W standby	20°C - 25°C	20 -80%

# LAURA® SMART ORDER DETAILS

Cat No	Product Name	Quantity
INS00064	LAURA® SMART	1

# CONSUMABLES

Cat No	Product Name	Quantity
URPH0025	TETRAPHAN SG LAURA	100 strips
URPH0026	PENTAPHAN LAURA	100 strips
URPH0027	HEPTAPHAN LAURA	100 strips
URPH0028	DEKAPHAN LAURA	100 strips
URPH0029	MICROALBUPHAN LAURA	50 strips
REG00053	URINORM (CONTROL MATERIAL)	2x3x15 mL
URPH1003	Control strips for LAURA® Smart	3 pcs

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**Total Solutions for Clinical Diagnostics**

The Devices are in compliance with the IVDR requirements of CE marking  
 Version No 1.1\_DD.MM.YYYY

Ref: LIT40.006/2023/01/EN