



HIGH PERFORMANCE.  
AFFORDABLE AUTOMATION.

# LAURA XL

FULLY AUTOMATED  
URINE ANALYSER



# Workflow optimization through full automation.

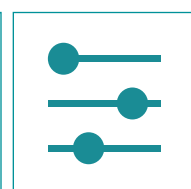


Combining urine strip reading and digital microscopy, the Laura XL delivers fully automated processing of urine samples. From homogenisation and dispensing onto strips, to sedimentation and result evaluation, it's all done automatically, accurately and quickly. High resolution digital images are generated reducing the need for additional evaluation by visual microscopy.

Flexibility and efficiency are provided with three operating modes (chemistry only, sediment only and hybrid) with capacities of up to 140-180 tests per hour. High performance is achieved with 10 chemistry parameters and 16 automated sediment categories. In addition, there are 16 other manual and 4 customizable sediment categories available for precise manual revision of results.



**140 - 180**  
tests/h



**10**  
chemistry  
parameters



**16**  
automated  
sediment  
categories



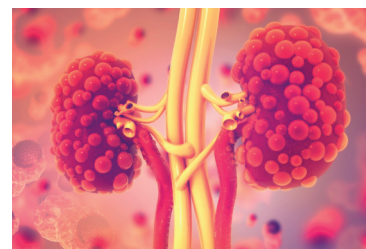
**20**  
manual  
categories



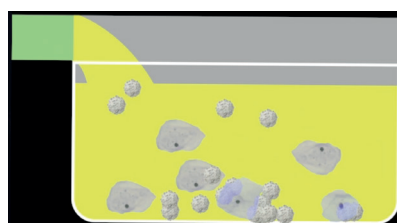


## Using gravity to bring down costs.

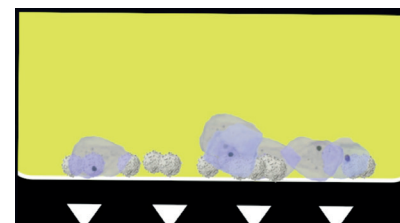
The ever increasing prevalence of kidney diseases, and the importance of early detection and screening provide growing challenges for many laboratories. The Laura XL delivers an affordable and cost-effective solution for labs facing increasing demand for urinalysis.



Gravity sedimentation leads the way in ongoing cost savings because it removes the need for expensive disposable cuvettes for each sample. Instead the cuvettes are rinsed and re-used, meaning less cost and waste compared to systems using centrifugation or measurement in flow. Gravity sedimentation is also a very gentle technique, meaning less damage to fragile elements like casts and a lower risk of RBC lysis.



*Filling of the flat base cuvette with sample.*



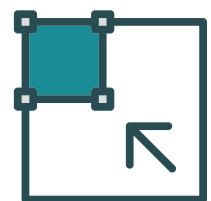
*Image capturing, processing and automatic evaluation*



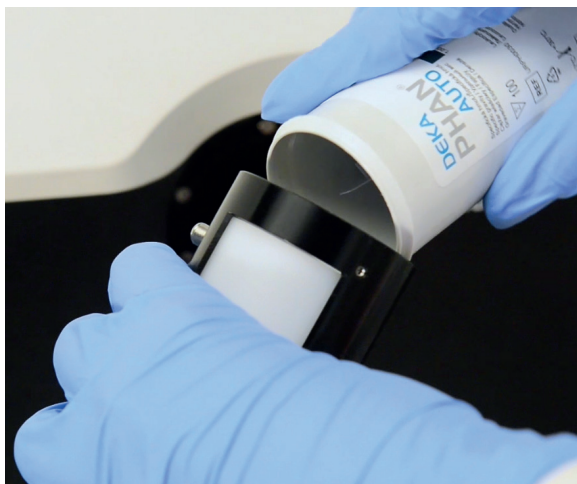
## Industry leading design.

### Small footprint

Engineered with modern laboratories in mind, the compact design frees up valuable work space. With the strip reader, microscope and PC all in one box, the Laura XL's footprint is just 943 x 675 mm.



### Active Humidity Protection



Diagnostic pads are very sensitive to air humidity, which can cause false positive results. Unlike most urinalysis machines which rely on passive humidity protection with silica gel bags, the Laura XL employs cutting edge active humidity protection technology. Two on-board desiccators working in parallel pump dry air into the strip feeder and maintain the humidity at 40% lower than ambient humidity, resulting in more accurate analyses.





**A few drops is all  
that's needed.**

The Laura XL uses just 0.9 mL of urine.



When paediatric or neonatal samples are too small to be analysed, a new sample must be requested, causing treatment to be delayed in the most vulnerable patients.

The Laura XL has been designed specifically with this in mind. Its efficient fluidics system requires just 0.9ml of urine for full analysis, ensuring you get the best result for your patient first time.





All of the power,  
none of the hassle.

## User Friendly

The graphical user interface has been engineered with simplicity at its core. Large icons and an intuitive software structure ensure ease of use. In fact the Laura XL will guide you through many of the procedures, meaning no more guess work.

Full LIS connectivity streamlines data processing and reporting.

## Automatic Programmed Maintenance

Self-maintenance is performed automatically, right when it's needed, without the user having to lift a finger. The programmed maintenance saves time and means the Laura XL is always fully calibrated and ready to go.







## Key features of LAURA XL fully automated urine analyser.



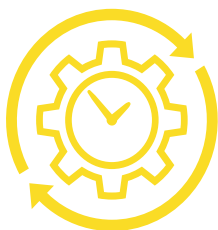
### POWERFUL

- Fully automated processing
- 3 operating modes
- 10 chemistry parameters
- 16 sedimentation categories
- Active humidity protection



### USER FRIENDLY

- Simple user interface
- LIS connectivity
- Automatic programmed maintenance



### EFFICIENT

- Up to 140 – 180 tests per hour
- Reusable cuvettes
- Small footprint - 943 x 675 mm
- Full analytics from 0.9ml urine

# TECHNICAL SPECIFICATIONS

## SYSTEM INFORMATION

### ANALYTICAL MODES

Chemistry only 180 tests/h  
Sediment only 140 tests/h  
Hybrid 140 tests/h

### MEMORY

> 500.000 results (incl. controls)

### MINIMAL SAMPLE VOLUME

Primary tube 2 mL  
Micro tube 0,9 mL

### SAMPLE LOADING CAPACITY

120 samples ( 10 tubes x 12 racks)

### SUPPORTED BARCODES

Code 128 (A, B, C), 39, 93, Codabar,  
Interleaved 2/5

## INTERFACE

ASTM (RS323 + LAN), USB

## WORKING CONDITIONS

Temperature 16 – 30 °C  
Humidity 0 – 90 % RH  
(noncondensing)

## DIMENSIONS

Width 943 mm  
Depth 675 mm  
Height 563 mm  
Weight 70 kg

## CHEMISTRY ANALYSIS

### METHOD

Reflectance photometry

### PARAMETERS

SG, LEU, NIT, pH, PRO, GLU, KET, UBG,  
BIL, BLD, ASC, Color, Clarity

## UNITS

SI, conventional, arbitrary

## SEDIMENT ANALYSIS

### METHOD

Digital microscopy

### PARAMETERS

WBC, WBCC, RBC, SQEP, NSE, HYA,  
CAST, CaOX, TRIP, UA, BACC, BACR,  
YST, SPRM, MUC, UNCC

## UNITS

N/μL; N/x μL; Microscopy units,  
Total counts

CAT. NO.	REG. NO.	PRODUCT NAME	QUANTITY
INS00065	10020489	LAURA XL	1 pc
URPH0030	10020473	DEKAPHAN Auto	100 strips



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