

LabUMat

Fully automated Urine Chemistry Analyzer



UriSed

Revolutionary new, fully automated Urine Sediment Analyzer



- ✓ Fast and reliable
- ✓ Automated test tube handling and test strip dipping
- ✓ User friendly software; easy operation via color touch screen
- ✓ Flexible, customized testing and reporting options
- ✓ Unidirectional / bidirectional interface with host computer / LIS
- ✓ Automated QC analysis and self-check
- ✓ Software and language upgrades via USB stick



- ✓ Whole viewfield microscopic images of sediment
- ✓ Automatic identification and classification of urine particles
- ✓ Cost-effective operation without any special liquid reagents
- ✓ Low sample volume; fully automated sample preparation
- ✓ Optimized centrifuge to prevent particle destruction
- ✓ Unique pipette washing technology, no need for special cleaning solution
- ✓ User friendly and flexible software; easy operation via PC workstation
- ✓ Unidirectional / bidirectional interface with host computer / LIS
- ✓ Automated QC analysis and self-check
- ✓ Software and language upgrades via USB stick

Efficiency and convenience in urine analysis



The **LabUMat** is an automated desktop instrument designed for high volume urine test strip reading. **LabUMat** improves the efficiency of medical laboratories and makes urine analysis simple.

The **LabUMat** urine strip reader is a stand-alone instrument, which can be connected to the **UriSed** microscopic urine sediment analyzer. Together, the two instruments make up a **Complete Urine Laboratory System**.

The best choice for those who want to see The Full Picture

The **UriSed** is a professional urine sediment analyzer detecting urine particles in urine sediment with high accuracy. This instrument performs sample preparation, takes several pictures of each sample through its built-in microscope and evaluates them using the **UriSed Evaluation Module** which is a high quality image processing software.

The **UriSed** microscopic urine sediment analyzer is a stand-alone instrument, which can be connected to the **LabUMat** urine strip reader. Together, the two instruments make up a **Complete Urine Laboratory System**.



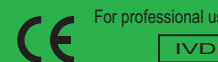
Technical features

Methodology:	reflectance photometer
Evaluated parameters:	Bilirubin, Urobilinogen, Ketones, Ascorbic acid, Glucose, Protein, Blood, pH, Nitrite, Leucocytes, Specific gravity via test strip
Max. throughput:	up to 250 tests / hour
Batch size:	100 test tubes
Min. sample volume:	6.0 ml
Memory:	max 10,000 results
Display:	800x600 TFT
Size:	645x600x605 mm (LxDxH)
Weight:	51 kg
Input:	100-250V AC / 50-60 Hz
Power consumption:	max 200 W
Interfaces:	USB, RS232 serial port, PS2, VGA
Printer:	optional, external
Built-in barcode reader:	YES

77 Elektronika

77 Elektronika develops and manufactures in vitro medical diagnostic devices, mainly blood glucose monitoring systems and urine analyzers. The products are supplied all over the world under 77 Elektronika's own brand and also as OEM products for market-leading multinational companies. 77 Elektronika was established in 1986 with its headquarters in Hungary (EU). Since its establishment, the company has been developing dynamically to the complete satisfaction of its customers

77 Elektronika
1116 Budapest,
Fehérvári út 98.
HUNGARY
Tel.: +36 1 206-1480
Fax: +36 1 206-1481
Email: sales@e77.hu
www.e77.hu



LabUMat & UriSed Complete Urine Laboratory System

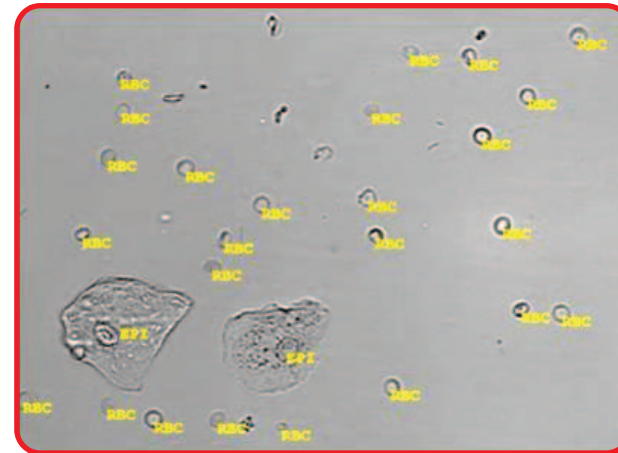
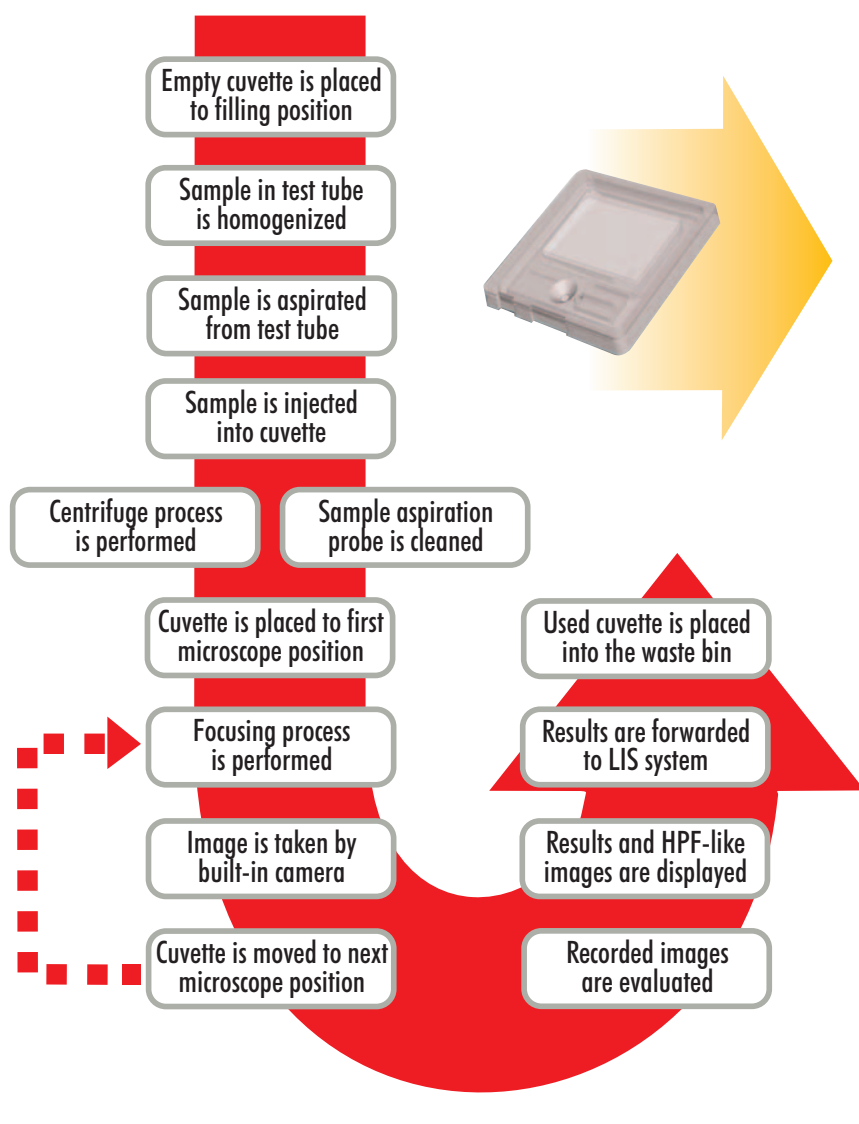


Chemistry and sediment analysis in one system

The efficiency of LabUMat test strip analyzer and UriSed microscopic sediment analyzer – both manufactured by 77 Elektronika – can be maximized by using these instruments together as one system. Common operation is enabled with physical and software connections between LabUMat and UriSed. Results of both measurements are stored in a common database and reported as a common report.

Since all necessary measurements which have to be done on urine samples are completed by this integrated system in one process, combination of LabUMat and UriSed accelerates laboratory throughput and provides the most effective and reliable solution for complete and professional urine analysis.

UriSed Patented measurement process & highlights of UriSed



- UriSed has a reproducible method for the preparation and evaluation of urine samples, which is based on the automation of traditional manual process.
- As each sample is observed in a separate chamber (cuvette), there is no carry over between different samples.
- UriSed does not need any special reagent material for the operation; cuvettes are the only consumable.
- UriSed provides whole viewfield images like HPF images in routine manual microscopy in a fully automated way.
- Images are evaluated automatically and reliably.
- These high quality clear and sharp images are stored in a database; in that way human evaluation is also possible any time after the measurement on screen, without manual microscopic investigation.
- UriSed can be used to educate laboratory staff since images can be seen on full screen.

Technical features

Measurement technique: centrifugation and microscopic measurement of native urine samples in special disposable cuvettes

Detected particle classes:

- RBC (red blood cells);
- WBC (white blood cells and wbc clumps);
- HYA (hyaline casts);
- PAT (pathological casts);
- EPI (squamous epithelial cells);
- NEC (non-squamous epithelial cells);
- BAC (bacteria);
- YEA (yeast);
- CRY (crystals): CaOxm (Calcium-oxalate monohydrate), CaOxd (Calcium-oxalate dihydrate), URI (Uric acid), TRI (Triple phosphate)
- MUC (mucus);
- SPRM (sperm);

Further classes for manual sub-classification are also available!

Memory: max 5,000 results (including all images)

Magnification: standard, HPF-like images

Built-in centrifuge: YES

Built-in barcode reader: YES

Max. throughput: up to 80 samples/hour

Batch size: 100 test tubes

Min. sample volume: 2.0 ml

Printer: optional, external (connected to operating PC)

Interfaces: USB, RS232 serial port

Size: 600x640x635 mm (LxDxH, without operating PC)

Weight: 63 kg (without operating PC)

Power (measuring unit): 100-250V AC / 50-60 Hz / max. 200 W

Power (operating PC): 100-127V AC / 47-63 Hz / max. 400 W

220-240V AC / 47-63 Hz / max. 400 W

All you need for complete urine analysis:



LabStripU11 Plus test strips for LabUMat (closed system)



Cuvettes for UriSed (closed system)



Normal distilled water



Standard test tubes