

UriSed 2 Patented measurement process & highlights of UriSed

Empty cuvette is placed to filling position

Sample in test tube is homogenized

Sample is aspirated from test tube

Sample is injected into cuvette



Centrifuge process is performed

Sample aspiration probe is cleaned

Cuvette is placed to first microscope position

Used cuvette is placed into the waste bin

Focusing process is performed

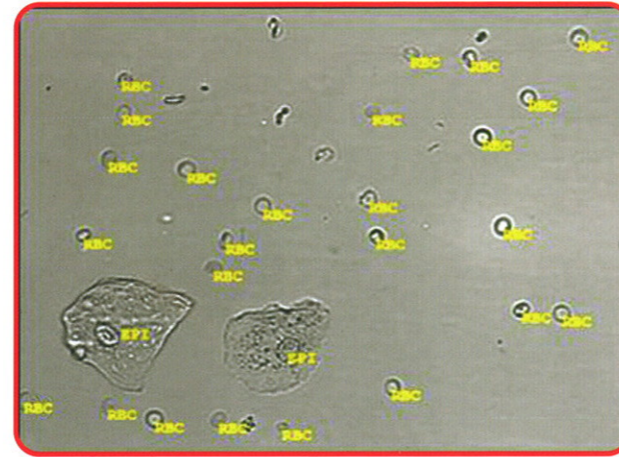
Results are forwarded to LIS system

Image is taken by built-in camera

Results and HPF-like images are displayed

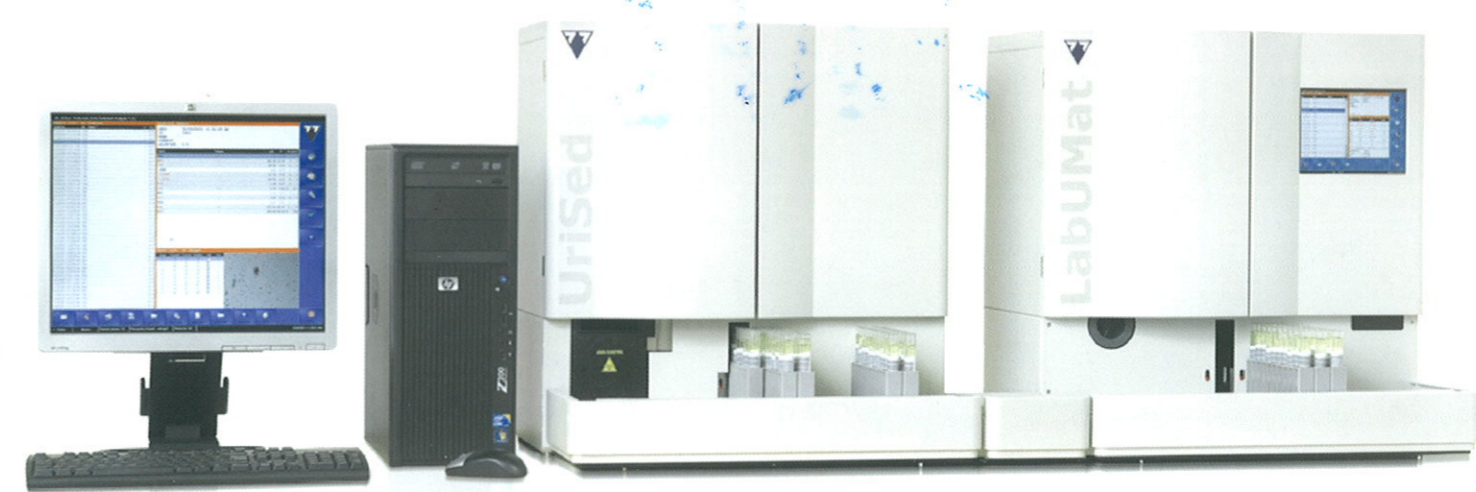
Cuvette is moved to next microscope position

Recorded images are evaluated



- UriSed 2 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 2 does not need any special reagent material for the operation; cuvettes are the only consumable.
- UriSed 2 provides whole field of view 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 2 can be used to educate laboratory staff since images can be seen on full screen.

LabUMat 2 & UriSed 2 Complete Urine Laboratory System



Chemistry and sediment analysis in one system

The efficiency of LabUMat 2 test strip analyzer and UriSed 2 microscopic sediment analyzer – both manufactured by 77 Elektronika – can be maximized by using the two instruments together as one system.

Common operation is enabled with physical and software connections between LabUMat 2 and UriSed 2. 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 2 and UriSed 2 accelerates laboratory throughput and provides the most effective and reliable solution for complete and professional urine analysis.

Technical features

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) standard, HPF-like images

Magnification: YES

Built-in centrifuge: YES

Built-in barcode reader: YES

Max. throughput: up to 100 samples/hour

Batch size: 100 test tubes

Min. sample volume: 2.0 ml (checked by liquid level sensor)

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:



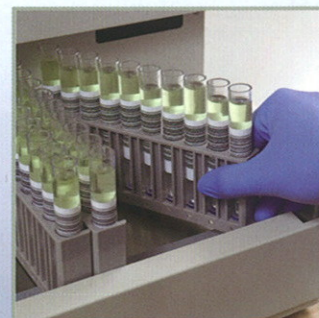
LabStripU11 Plus GL test strips for LabUMat 2 (closed system)



Cuvettes for UriSed 2 (closed system)



Normal distilled water



Standard test tubes