Urine Microscopy Analyzer

UriSed mini

New category in urine sediment analysis!

- Based on the patented UriSed Technology
- Whole field of view microscopic images of urine sediment
- Automatic identification of urine particles by the Auto Image Evaluation Module (AIEM)
- Total measurement cycle is less than 1 minute
- Cost-effective operation without any liquid reagents or calibrators
- Easy operation with minimal training needs
- Highly effective tool for small labs, emergency departments or as a back-up system for automated urine sediment analyzer
- Manual microscopy mode: Real-time view of any viewfield of the cuvette to see moving microorganisms as well
- User friendly and flexible User Software for handling data, validating results and creating complete urinalysis reports in standalone mode
- Connection to Laboratory Middleware or direct connection to LIS in integrated mode

The UriSed mini is a professional semi-automated urine microscopy analyzer which improves accuracy, reproducibility, safety and productivity in laboratories by producing whole field of view microscopic images of urine sediment and automatically classifying and counting urine sediment particles in the images. UriSed mini utilizes the traditional gold standard method while eliminating the most time-consuming and operator-dependent procedures in laboratories performed by manual microscopy. In addition it can also serve as a backup instrument of automated sediment analyzers.

For professional Use

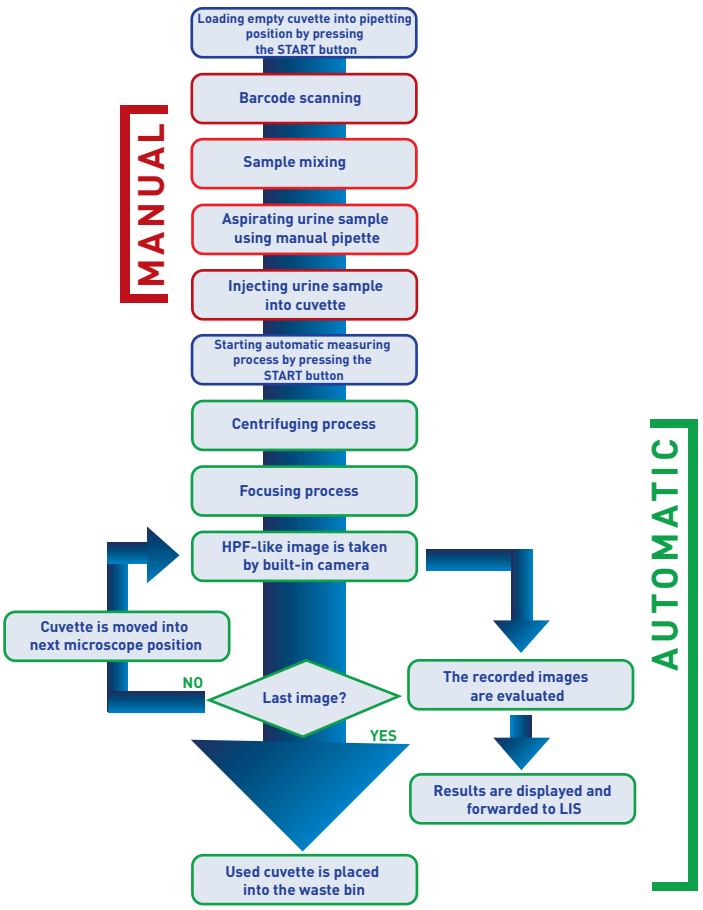
IVD

77 Elektronika Kft.

www.tuv.com TÜVRheinland ID:9105013598

- Certified Management System
- DIN EN ISO 14001
- EN ISO 13485
- EN ISO 9001

Measurement process of UriSed mini

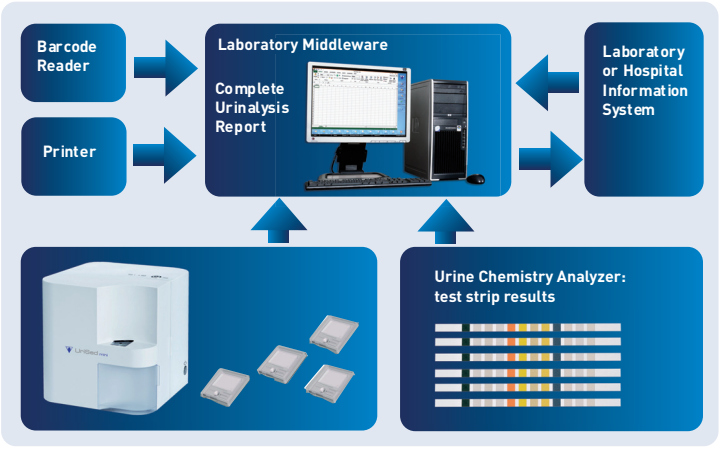


The operation of this analyzer is based on the patented UriSed Technology, which is actually the automation of traditional manual microscopy. The operator only needs to load a special disposable cuvette and inject native urine sample into it using a manual pipette. Working without any special liquid reagents, UriSed mini performs all the rest automatically.
After centrifuging the sample, it takes 15 whole field of view images of each sample through a built-in microscope, and evaluates them using the Auto Image Evaluation Module (AIEM), which is a high-quality image processing software. The images and results can be viewed and validated in the user software of the UriSed mini.

About 77 Elektronika

77 Elektronika Kft. is a major global developer, manufacturer and supplier of in vitro diagnostic medical devices, mainly urine analyzers, rapid test readers blood glucose meters and their consumables. The products are supplied throughout the world under the 77 Elektronika brand and as OEM products for market-leading multinational companies.
77 Elektronika was established in 1986 and is headquartered in Budapest, Hungary (EU). The company is committed to providing superior products and services to the complete satisfaction of its customers.

Semi-automated urinalysis concept



Connectivity to Laboratory Middleware

- Collecting chemical and sediment results
- Barcode identification – assigning chemical and sediment data according to ID
- Validating results
- Displaying data
- Creating complete urinalysis report
- Printing report
- Connection to LIS
- Storing results in database

Technical Specifications

Detected particle classes:	Red Blood Cells (RBC); White Blood Cells (WBC); WBC Clumps (WBCc); Hyaline Casts (HYA); Pathological Casts (PAT); Squamous Epithelial Cells (EPI); Non-Squamous Epithelial Cells (NEC); Bacteria Rod (BAC); Bacteria Cocci (BACc); Yeast (YEA); Crystals (CRY): Calcium-oxalate monohydrate (CaOxm), Calcium-oxalate dihydrate (CaOxd), Uric acid (URI), Triple phosphate (TRI); Mucus (MUC); Sperm (SPRM);
Further classes for manual subclassification are also available.	
Technology:	UriSed Technology: cuvette-based automated microscopy and image processing
Throughput:	Up to 60 tests/hour
Min. sample volume:	0.5 ml
Memory capacity:	5 000 results (including all images)
Built-in centrifuge:	YES
Built-in microscope:	YES
Images:	15 standard HPF-like images
Display:	Monitor
Barcode reader:	Optional, external
Printer:	Optional, external
Dimensions:	310 x 310 x 320 mm (W x D x H)
Weight:	10 kg
Power:	100-250V AC / 50-60 Hz / max. 100W
Interfaces:	USB, Ethernet
Consumables:	Standard UriSed cuvettes; Disposable pipette tips

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