UriSed mini

Urine microscopy – the easy way

- 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 liquid reagents or calibrators
- Easy operation with minimal training needs
- Highly effective tool in a wide range of medical and clinical settings such as hospitals, clinics, accident and emergency departments and outpatient laboratories
- Supported configurations: standalone and integrated mode
- 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 performing manual microscopy. In addition it can also serve as a backup instrument of automated sediment analyzers.
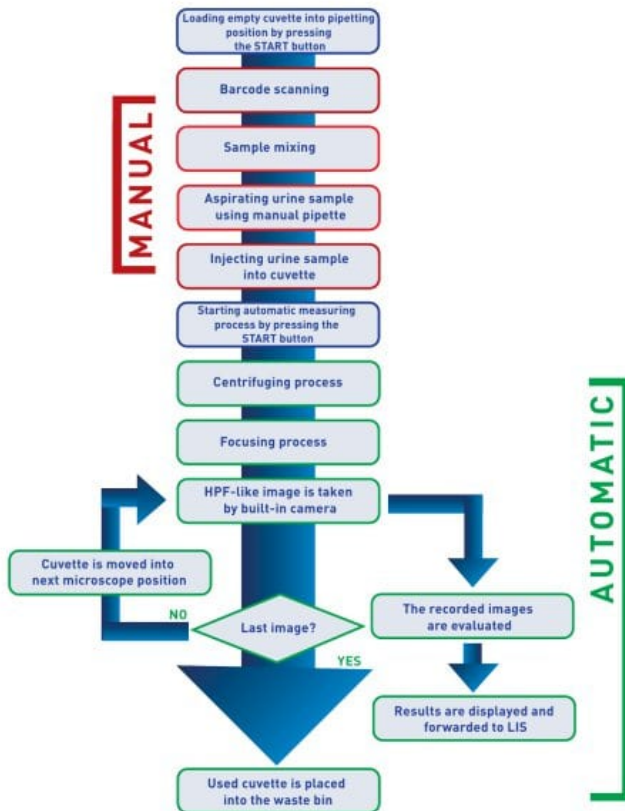
For professional Use

IVD

77 Elektronika Kft.

Measurement process of UriSed mini

MANUAL

- Loading empty cuvette into pipetting position by pressing the START button
- Barcode scanning
- Sample mixing
- Aspirating urine sample using manual pipette
- Injecting urine sample into cuvette

AUTOMATIC

- Starting automatic measuring process by pressing the START button
- Centrifuging process
- Focusing process
- HPF-like image is taken by built-in camera
- Cuvette is moved into next microscope position
- Last image? — NO / YES
- The recorded images are evaluated
- Results are displayed and forwarded to LIS
- Used cuvette is placed into the waste bin

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.
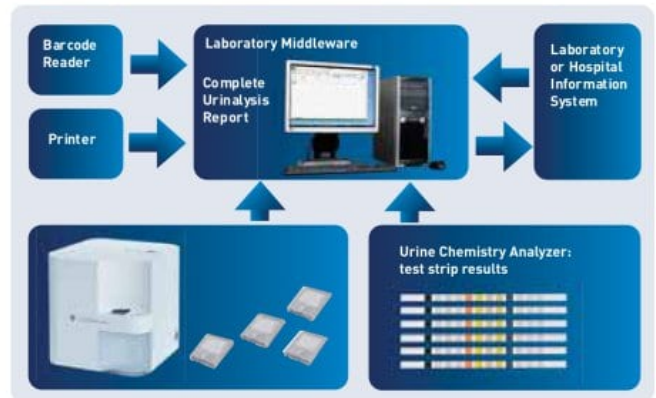
After centrifuging the sample, it takes 15 whole field of view images of each sample through a built-in microscope, and evaluates them using the Auto Image Evaluation Module (AIEM), which is a high-quality image processing software. The images and results can be viewed and validated in the user software 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, 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 Hungary (EU). The company is committed to providing superior products and services to the complete satisfaction of its customers.

Semi-automated urinalysis concept

Barcode Reader

Printer

Laboratory Middleware
Complete Urinalysis Report

Laboratory or Hospital Information System

Urine Chemistry Analyzer: test strip results

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 (BAC); 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

DocUReader 2 & DocUReader 2 Pro
Compact Size Urine Analyzers

- Simple, intuitive operation via color touch screen

- Autostart of measurement by placing the strip on the holder

- Advanced, patented detection technique

- Up to 50 sample tests/hour throughput (in normal mode)

- Automated printed report

- Streamlined documentation by LIS connectivity; automated result and worklist transmission

- Optional barcode reader and external keyboard; accurate data entry and reduced transcription errors

- Prevents unauthorized use through configurable settings* (DocUReader 2 Pro)

- Advanced Quality Control functions * (DocUReader 2 Pro)

- Ethernet connectivity* (DocUReader 2 Pro)

Available in two versions the new **DocUReader 2** systems are designed to read and evaluate the **Labstrip U11 Plus** urine test strips. Their compact design offers the broadest features available on any desktop size urine analyzer. Continuing the mission of the previous **DocUReader** both new versions are featured by simple operation, cost-efficiency and high quality while the **DocUReader 2 Pro** is featured by even more improved connectivity and performance.

Choose the DocUReader 2 urinalysis reader that suits your needs

Do you need...	DocUReader 2	DocUReader 2 Pro Improved connectivity and performance
Memory capacity ■ test result storage ■ QC testing	up to 1000 patient tests up to 500 results	up to 3000 patient tests up to 1000 results
Intelligent data management	✔	✔
Advanced data entry	✔	✔
Printed records	✔	✔
Customized testing and reporting options	✔	✔
Serial interface to host computer / LIS	✔	✔
Optional barcode scanning	✔	✔
Advanced QC functions		✔
Advanced system security functions		✔
Ethernet connectivity		✔
HL7 protocol		✔

Technical Specifications

Type:	reflectance photometer wavelengths: 505, 530, 620, 660nm
Dimensions:	190 x 236 x 77mm (Width x Depth x Height)
Weight:	1.5 kg
Electrical rating:	100...240V AC, 50/60Hz, external mains adapter
Operating conditions:	15 to 32 °C 20-80% relative humidity, non-condensing
Compliance:	CE, UL, EMC
Display:	3.5" QVGA touch-screen LCD (resolution: 240x320)
Printer:	internal thermo printer
Interfaces:	Ethernet port* (DocUReader 2 Pro) RS232 serial port USB A, USB B PS2 (external keyboard, barcode reader) microSD card holder
Communication protocol:	LIS2A2 HL7* (DocUReader 2 Pro)
Throughput:	up to 50 tests/hour (in normal mode)
Memory capacity:	patient test results: 1000 / 3000* (DocUReader 2 Pro) QC test results: 500 / 1000* (DocUReader 2 Pro)

Software Features

■ Intelligent, database driven data management; results can be filtered by date, IDs, status, result

■ Improved support of data entry; manual entry of color and turbidity from a predefined list or additional comment

■ High level of customization; flexible testing and reporting options

■ Future ready; software and language upgrades easily performed via USB stick or microSD card

■ Advanced Quality Control functions * (DocUReader 2 Pro); automated L2 or L3 QC analysis with optional QC lockout function or QC test reminders and support of LOT code information

■ Advanced system security functions* (DocUReader 2 Pro); programmable operator management

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LabStrip U11 Plus

High quality and reliable urine test strip

Pack size:	150 tests
Shelf life:	24 months
Parameters:	Blood, Glucose, Spec. gravity, Bilirubin, Protein, Nitrite, Urobilinogen, Leucocytes, Ketones, pH, Ascorbic Acid