



AVE-772

Fully Automated Integrated
Urine Analyzer

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Uri

Rbc

Cell

Uri

Wbc



Detected Parameters

- Chemistry Measurements: 11,12, 14 parameters available.
- Microscopy Measurements: RBC, WBC, Epithelial Cells, Crystal, Casts, Mucus, Yeast, Bacteria, etc. Further sub-classification is available with manual on-screen verification.
- RBC Morphological Analysis: automatic analysis and generated with diagrams and images.
- Physical Measurements: color, turbidity, specific gravity and conductivity.
- Extensional Measurement: pleuroperitoneal fluid, cerebrospinal fluid, gastric fluid, etc.

Advantages

- Unique design with both Chemistry and Microscopy measurements integrated, which makes both measurements done by sampling once.
- Measurement Modes Optional: chemistry, microscopy, or chemistry+microscopy.

Physical Measurement

- Independent PMC module automatically measures color, turbidity, specific gravity and conductivity.
- More accurate SG result measured by refractometer.

Chemistry Measurement

- Patent strip feeding device.
- Innovative sample sprinkling technology to avoid undetection.
- Test results traceable with images.

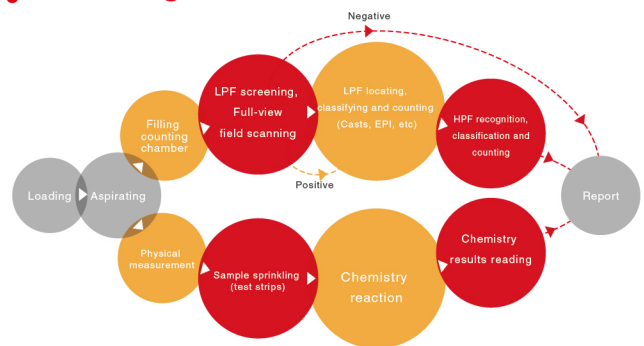
Microscopy Measurement

- Made strictly according to ISLH Recommended Reference Procedure for the Enumeration of Particles in Urine.
- Uncentrifuged urine sample at cutoff concentration level of 3-5 cell/ul are detectable.
- Precise morphological analysis of RBC helps to determine the source of hematuria.
- Standardized and confirmatory report with both images and diagrams available. Pop ups indicate on-screen verification with no need to redo the measurement.
- Self-learning function continuously improves the recognition accuracy.
- Un-centrifuged urine microscopy reference values available.
- CFDA approved quality controls of four levels available.

Measurement Technology

- Physical measurement: color, turbidity measured by RGB sensor; specific gravity measured by refractometer; conductivity measured by electrode method.
- Chemistry measurement: colorimetry
- Microscopy measurement: Machine Vision Technology (Automated Morphological Microscopy)

Working Procedure



Specifications

Throughput:Chemistry	Microscopy	Chem+Micro:
240T/H	120T/H	120T/H

Min. sample volume: 5ml, 3ml intake for chemistry measurement and 0.5ml for microscopy measurement

Sample preparation: native sample

Built-in barcode reading: Yes

Counting Chamber: 3 channel

Detection rate: $\geq 98\%$ for sample at concentration of 5 cells/ul

Accuracy: For chemistry measurement, comparing to reference

solution, results are within tolerance of one level or no false

positive and negative; for microscopy measurement, $\geq 95\%$

Repeatability: For chemistry measurement, $CV \leq 1\%$; for

microscopy measurement, $CV \leq 7\%$

Carryover: At concentration of 4600-5400 cells/ μl $\leq 1\text{cell}/\mu\text{l}$;

At concentration of 9200-10800 cells/ μl $\leq 2\text{cells}/\mu\text{l}$

Verification: Full-view field images + segmented images

Report: comprehensive results with images and diagrams

Sampler: loading capacity of 60 samples

Strip tank capacity: 200 strips

STAT: available

Data interface: bidirectional

LIS/HIS connection: available

Results storage: $\geq 200,000$ results

Dimensions: 825x650x545mm³ Weight: 73kg

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