

AVE-772

Fully Automated Integrated Urine Analyzer

Specifications

- Throughput
Chemistry 240T/H Microscopy 50-120T/H Chem+Micro 50-120T/H
- Min. sample volume: 5ml
- Sample preparation: Native sample
- Built-in barcode reader: Yes
- Counting Chamber: 3 channels
- Detection rate: ≥98% for sample at concentration of 5 cells/μl
- Accuracy: -For chemistry measurement, comparing to reference solution, results are within tolerance of one level or no false positive and negative;
 -For microscopy measurement, ≥95%
- Repeatability: -For chemistry measurement, CV≤1%;
 -For microscopy measurement, CV≤7%
- Carryover: At concentration of 4600-5400 cells/μl , ≤1 cell/μl;
 At concentration of 9200-10800 cells/μl, ≤2 cells/μl
- 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
- Computer:External
- Results storage: ≥200,000 results
- Dimensions: 825mm×647.5mm×514mm
- Weight: 75kg

Product and Consumables:

Product Name	Specifications	Art. No.
Fully Automated Integrated Urine Analyzer	AVE-772	77201
Urine test strips	AVE-11AH	01107
Calibrator For Urine Formed Elements Analyzer	10mL*28	21006
Reagent Kit:		
Cleanser I	500mL	13001
Cleanser II	40mL	14008
Buffer	40mL	12004

For professionals only! Design and specifications of instruments may change without prior notification!



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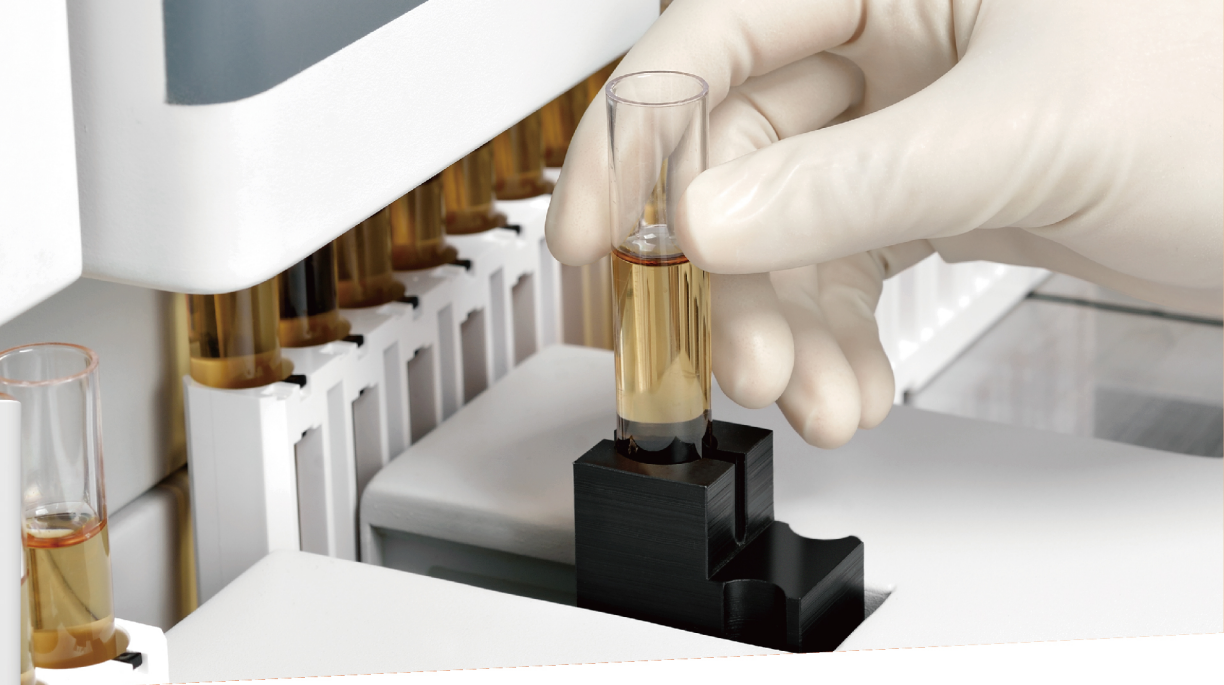
Fully Automated Integrated Urine Analyzer

Uri

Cell

Wbc

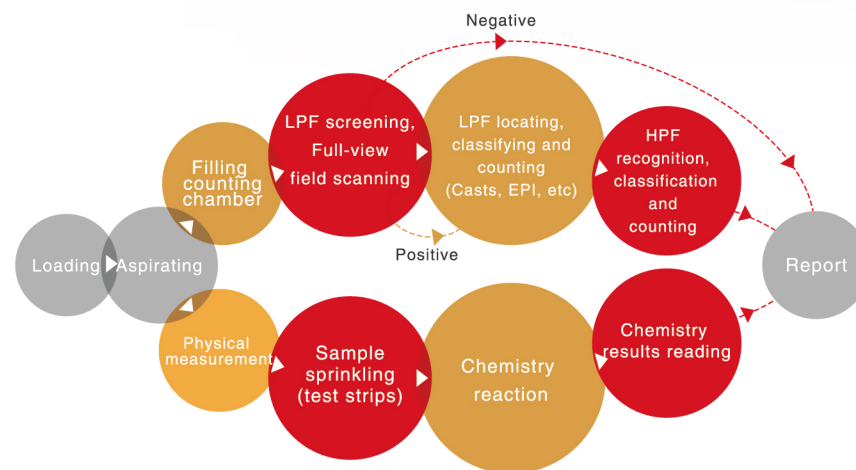
Rbc



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.

Working Procedure



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 samples at cut-off concentration level of 3-5 cells/ μ l 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)