

USAI 300/80

Urinalysis Analyzer

***Urine & Sedimentation Analyzer with
AI Function***



USAI 300/80 Urinalysis Analyzer

Urine & Sedimentation Analyzer with AI Function

All in One

- Chemistry, sediment and physical analysis in one analyzer
- One aspiration, complete results
- Robust yet compact

Less is More

- Routine consumption: sheath, detergent and strip only
- Minimum sample volume 1.5-2.0mL
 - Chemistry analysis: 1.5mL
 - Sediment analysis: 2.0mL
 - Both: 2.0mL

Good and Better

- Integrated tube rotator realizing full angle bar code scanning function
- Optional refractometer to provide more physical parameters (SG, Turbidity, Color)
- Optional conductivity module to provide conductivity and osmolality

Smart and Smarter

- DIV print template modification software integrated
- Intelligent abnormal sample flag
- Bi-directional LIS to follow LIS order to test chemistry, sediment or both flexibly
- Automatic QC function



Smallest All-in-one Urinalysis Analyzer

- 530mm by length only
- Save valuable laboratory space

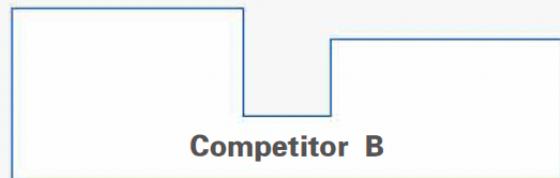


530mm



Competitor A

800mm



Competitor B

2200mm

Throughput	80~300 T/H <ul style="list-style-type: none"> ▪ 300 T/H for chemistry analysis ▪ 80 T/H for sediment analysis ▪ 80 T/H for both
Sample	Nature urine
Minimum Sample Volume	1.5ml for chemistry analysis; 2ml for sediment analysis; 2ml for both
Sample Position	50
Display	Integrated 10.4-inch touch screen and PC screen
Results Storage	1 million dry chemistry results; 500,000 strip images; 400,000 sediment results
Communication	LAN, USB x 3, RS-232, VGA
Working Temperature	5~40°C
Power Supply	100V-240V~, 50/60Hz
Dimension	530 mm(L) x 650 mm(W) x 695 mm(H)
Instrument Weight	63 kg

Advanced CIS Imaging System

- High accuracy and high efficiency
- Real strip image display
- 5 wavelengths detection guarantees precise and confident results

Physical Module

- Improve test accuracy of urine specific gravity, turbidity and color
- Conductivity and osmolality

16 Items Strips Parameters

- 14 test items including VitC, CR, MA and CA
- Albumin-to-Creatinine Ratio (ACR) and Protein-to-Creatinine Ratio (PCR) help to screen early kidney disease
- Compensation pad can eliminate urine color interference

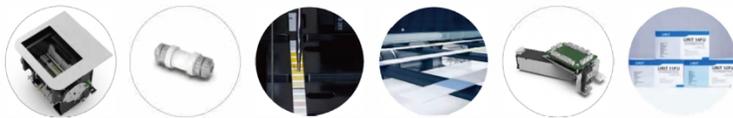
High Speed

- 300 T/H for chemistry analysis only
- 80 T/H for sediment analysis and both chemistry & sediment analysis

Bar Code Scanning Function

- High-rate bar code scanning identification
- Full angle bar code scanning
- Shift test mode by scanning bar code through bi-directional LIS

Principle	CIS color detecting system, 5 wavelengths colorimetry method, refraction method
Parameters	<p>Strip parameters:</p> <ul style="list-style-type: none">▪ 11FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC▪ 12FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, MA, CRE▪ 14FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC, MA, CRE, CA <p>System parameters: PCR, ACR (12FU, 14FU) 5 Physical parameters: Color, Turbidity, SG, Osmolality, Conductivity</p>
Strips	11FU, 12FU, 14FU
Strip Cabin Capacity	500



Urine Sediment Analysis

- Flowcell digital imaging automatic identification
- High speed data acquisition card

High Speed & Reliability

- 80 T/H constant speed for sediment analysis
- To be fast but never compromising on high resolution pictures and reliable results

High Resolution Pictures

- Innovated video replay for each sample
- 400 times magnified image
- Guarantee the recognition accuracy rate

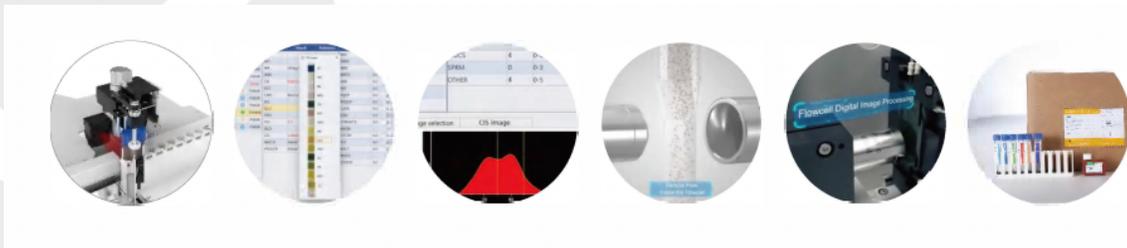
Principle	AI recognition technology, flat sheath flow technology, digital imaging technology
Parameters	38 + Urine sediment parameters RBC, DRBC (G1, Coin, Ghost, Big RBC cells, Small RBC cells), WBC, Phagocyte, WBCC, SQEP, NSE (TREP, REP), HYA, PAT (GRAN, WAXY, CELL, BLOOD, MIX), CAOX (CaOxm, CaOxd), URIC, STRUVITE, AMOR, OTCRY (CaPh, MUCR, CYCY, LECR, CHCR), BACT (Cocci, Scoccus, Bacilli), YST, Hyphae, OTFNG (FUSA), MUCS, SPRM, LIP, BUBLE, OTHER RBC phase detection MCV, RDW, abnormal RBC ratio Integrate urine dry chemistry results
Video Replay	Yes
Lens	40X
Report Unit	xx/uL, xx/HPF, xx/LPF, plus system

AI Technology

- Deep learning system
- Multi-layer neural network (CNN), more intelligent
- Expanded learning and migration learning technology, more compatible

Consolidation of Urine Work Area

- New generation report interface
- Full report covers physical examination results, dry chemistry results, sediment results, RBC phase information and real strip image



No. 7/24 Stebondale Street, London, United Kingdom

Authorized Distributor: Goldengate Holdings Limited Dubai, U.A.E

🌐 www.elektrogenesis.com

✉ mea@elektrogenesis.com

☎ +971 58 912 1046 | +971 56 779 7033

