

URIT *Since 1984*
Global Diagnostics Supplier



US-1680

AI-Libre Urinalysis Analyzer

World **First** AI-Libre Urinalysis Analyzer

- 300 T/H for chemistry analysis
- 120 T/H for sediment analysis
- 120 T/H for both chemistry and sediment analysis

Compact, all in one design

AI technology (CNN, deep learning)

Real strip image display

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Guilin, China

US-1680

AI-Libre Urinalysis Analyzer

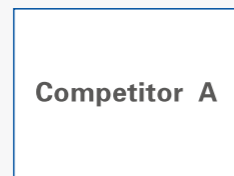


Smallest All-in-one Urinalysis Analyzer

- 640mm by length only
- Save valuable laboratory space

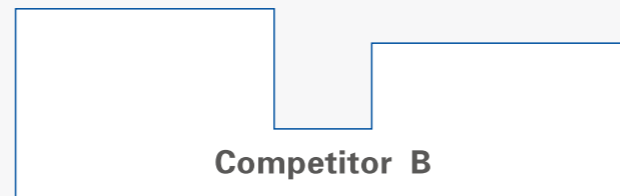


640mm



Competitor A

800mm



Competitor B

2200mm



All in One

- Chemistry, sediment and physical analysis in one analyzer US-1680
- One aspiration, complete results
- Robust yet compact



Good and Better

- Optional extension pre-storing and reclaiming tray to extend the sample capacity to 260
- Optional refractometer to provide more physical parameters (SG, Turbidity, Color)
- Optional ST module to utilize sample pretreatment for higher workload lab



Less is More

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



Smart and Smarter

- DIY 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

Throughput	120~300 T/H <ul style="list-style-type: none"> • 300 T/H for chemistry analysis • 120 T/H for sediment analysis • 120 T/H for both chemistry and sediment analysis
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Sample	Nature urine
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Minimum Sample Volume	1.5mL for chemistry analysis; 2mL for sediment/ both chemistry and sediment analysis
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Sample Position	Stand-alone: 60; With expanding tray: 260; With ST module: 200
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Display & OS	22-inch screen, Windows 10
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Results Storage	≥400,000
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Communication	LAN, USB, RS-232, PS/2, VGA
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Working Temperature	5~40°C
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Power Supply	100V~240V~, 50/60Hz
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Dimension	640 mm(L)x705 mm(W)x618 mm(H)
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Weight	82.5 kg
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US-1680 Chemistry analysis part



Advanced CIS Imaging System

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



Physical Module

- Redesigned SG module to compensate temperature influence
- Improve test accuracy of urine specific gravity, turbidity and color



14 Items Strips

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



High Speed

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



Bar code Scanning Function

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



Liquid Level Sensing

- Liquid level sensing function to reduce the contact area between sample probe and urine
- Minimize the cross contamination interface

Principle CIS color detecting system, 5 wavelengths colorimetry method, refraction method

Parameters Strip parameters:
 • 11FA: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC
 • 12FA: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, MA, CRE
 • 14FA: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC, MA, CRE, CA
 System parameters: ACR(12FA, 14FA), COLOR, TURBIDITY

Strips 11FA, 12FA, 14FA

Strip Cabin Capacity 500





US-1680

Sediment analysis part



Urine Sediment Analysis

- Flowcell digital imaging automatic identification
- High-definition video
- 800 frames image capture
- High speed data acquisition card



AI Technology

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



High Speed & Reliability

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



Consolidation of Urine Work Area

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



High Resolution Pictures

- 400 times magnified image
- 4 million pixels picture
- Guarantee the recognition accuracy rate

Principle	AI recognition technology, flat sheath flow technology, digital imaging technology
Parameters	<p>Urine formed elements RBC, WBC, WBCC, HYA, PAT, SQEP, NSE, CAO, URIC, UNCX, BACT, YST, MUCS, SPRM and etc.</p> <p>RBC phase detection MCV, RDW, abnormal RBC ratio</p> <p>Integrate urine dry chemistry results</p>
Camera resolution	4 megapixels
Pictures for each sample	800
Lens	40X

