URIT Since 1984
Global Diagnostics Supplier

PLUVIA diagnostics



US–500

AI–Libre Urinalysis Analyzer

World First semi–automatic AI–Libre Urinalysis Analyzer

- 60 T/H for dry chemistry test
- 30 T/H for sediment analysis
- 25 T/H for both

Compact, two in one design

AI technology (CNN, deep learning)

Automation of microscope with raw big picture

Ideal choice for small and medium size laboratory

Guilin, China



URIT Medical Electronic Co., Ltd.

Head Office
Add.: No. D–07 Information Industry
District, High–tech Zone, Guilin, Guangxi, 541004, P.R. China
Tel: +86-773-2288586 Fax: +86-773-2288560
E-mail: export@uritest.com service@uritest.com
http://www.urit.com

Shenzhen Office
Add.: Room EJ, 24th Floor, New Baohui Building, Nanhai Road,
Nanshan District, Shenzhen, P.R. China
Tel: +86-755-26413721

Rev:202203-1(20220303)

US–500

AI–Libre Urinalysis Analyzer



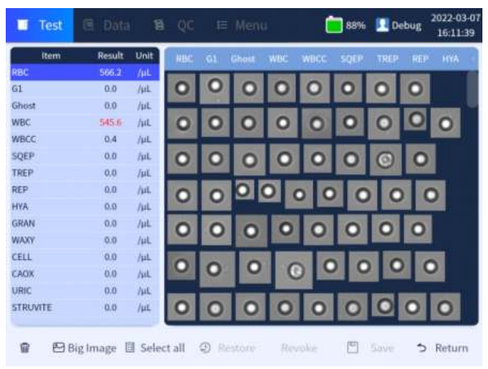
Dynamic Graphic Guidance

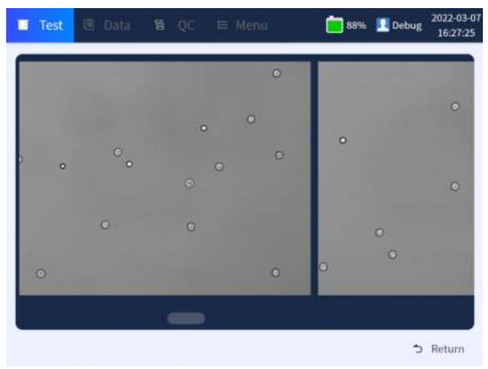


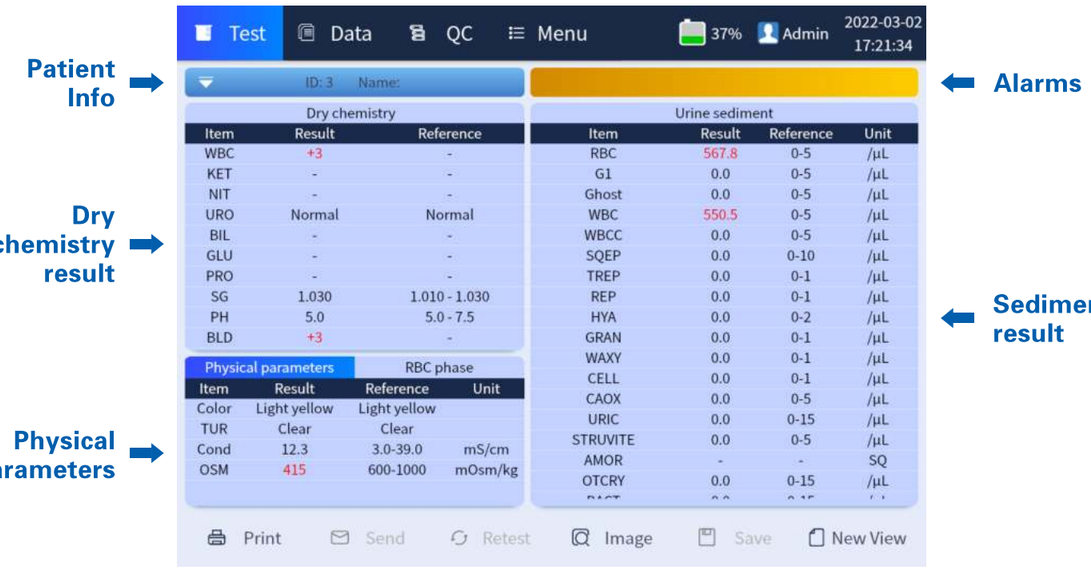


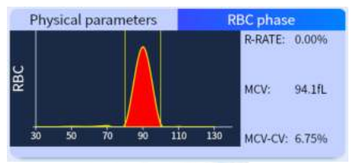
Automation of the Golden Standard

- Taking pictures with 40X magnification objective lens
- Provide raw full field images and individual particle images
- Two channels: one for testing, one for backup













US–500 AI–Libre Urinalysis Analyzer

All in One

- Chemistry, sediment and physical analysis in one analyzer
- Robust yet compact

Easy maintenance

- Magnetic strip holder easy load and unload
- Auto focus without focus solution
- Auto clean function

AI Technology

- Deep learning system
- Multi–layer neural network (CNN), more intelligent
- Expanded learning and migration learning technology, more compatible
- Strong hardware enhanced (CPU+GPU, MCU+FPGA)

Less is More

- Routine consumption: detergent A and strips only
- Minimum machine space and liberate more for lab
- Sampling volume is only 0.6mL

Reagent Heritage

- Reagent: Detergent A, Detergent C, QC22, CA21, UQ11, 14
- Strip: 10G, 11G, 14G
- A new generation yet still compatible with original reagent
- Friendly for registration and stock management

Conductivity and Osmolality

- Evaluate kidney capability of concentrating and diluting urine
- Help to screen kidney damage at early stage
- Give indirect indication of kidney tubules and collecting tubules injury
- No interference from GLU, PRO
- No additional expense



US–500

AI–Libre Urinalysis System

Principle	**Chemistry:** Dual wavelengths reflectance photometry **Sediment:** AI recognition technology Automated microscope technology Digital imaging technology **Conductivity:** Electrical impedance method
Parameters	**Chemistry strip parameters:** ●10G: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH ●11G: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC ●14G: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC, MA, CRE, CA System parameters: ACR (14G), PCR (14G) **Sediment parameters:** Automatic recognize 21 items: RBC, G1, Ghost, WBC, WBCC, SQEP, TREP, REP, HYA, GRAN, WAXY, CELL, CAOX, URIC, STRUVITE, AMOR, OTCRY, BACT, FUNGUS, MUCS and SPRM More items can be classified manually RBC phase: R–RATE, MCV, MCV–CV **Physical parameters:** Conductivity, Osmolality, COLOR (Manual input), TURBIDITY (Manual input)
Throughput	Chemistry + Sediment: 25T/H ｜ Chemistry: 60T/H ｜ Sediment: 30T/H
Sample Volume	0.6mL
Wavelengths	470nm, 550nm, 620nm, 720nm

Sample	Urine
Strip	10G, 11G, 14G
Reagent	Detergent A, Detergent C, QC and Calibrator
Raw big picture	288 pictures for each sample
Camera Pixels	1.3 Million Pixels
Lens	40X
Report Unit	Chemistry: Plus, ENG, SI, CONV Sediment: /μl, /HPF, /LPF, SQ Conductivity: mS/cm Osmolality: mOsm/kg
Voice Prompt	Yes
Print	Chemistry + Sediment + Physical parameters + RBC phase + Raw big picture
Interface	Net port, USB, VGA, HDMI, PS2, COM port
Results Storage	⩾100,000
Weight	18.5kg
Dimension	465mm × 270mm × 405mm（L*W*H）