



PKL PPC US-2000

Serial Urinalysis Workflow

World Fastest Urinalysis Workflow

- 800T/H for urine dry chemistry analysis
- 400 T/H for sediment analysis

AI technology (CNN, deep learning)
Modular design & Multiplicate configurations



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PKL PPC US-2000

Serial Urinalysis Workflow
Throughput up to 800 T/H

CUSTOMIZED COMBINATION



PKL PPC US-2000C

◇ 2200 x 700 x 575(mm)
Ⓢ 140(kg)



PKL PPC US-2000P

◇ 3000 x 850 x 1700(mm)
Ⓢ 335(kg)

PKL PPC US-2000ZEUS

◇ 5600 x 850 x 1700(mm)
Ⓢ 792(kg)



PKL PPC US-2000S

◇ 3650 x 850 x 1700 (mm) Ⓢ 420 (kg)

1st Sediment Module

PKL PPC 395

• 120 T/H

IPU Module

• Data & control center

YC Module

• Tube rack storage
200 sample positions

2nd Sediment Module

PKL PPC 395

• 120 T/H

Chemistry Module

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• 480 T/H

ST Module

• Sample preparation 200 sample positions
• Tube rotation function enables the high rate of bar code identification



PKL PPC 390



Automatic Urine Analyzer

Advanced CIS Imaging System

- 14 test items including VitC, CR, MA and CA
- Albumin-to-Creatinine Ratio (ACR) helps to screen early kidney disease



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



14 Items Strips

Constant Temperature Control System

- 10.4-inch touch color screen
- Operation and review from the same screen



- Avoid temperature interference
- Noise free and 20°C to 30°C temperature control with 1°C variance
- Offer the best reaction environment



Easy Touch Color Screen

Bar code Scanning Function

- Redesigned physical module to give accurate results of specific gravity, turbidity and color
- Piercing tube function to prevent the infection of COVID-19 sample aerosol



- Rack RFID auto recognition
- Tube rotation function enables the high rate of bar code identification



Optional Highlights

Principle	CIS color detecting system, 5 wavelengths colorimetry method, refraction method
Parameters	Strip parameters: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC (11FA, 14FA), MA (12FA, 14FA), CRE (12FA, 14FA), CA (14FA only) System parameters: ACR (12FA, 14FA), COLOR, TURBIDITY
Throughput	480 T/H each module
Piercing Function	Optional
Strips	11FA, 12FA, 14FA
Strip Cabin Capacity	500
Sample Position	Stand-alone: 60; stand-alone with expanding tray: 260; workflow: 200
Sample Volume	≥2 mL, online mode ≥3 mL
Display	10.4-inch touch color LCD
Results Storage	2,000,000 sample results, 100,000 sample pictures
Print	Internal thermal printer, any external printer
Communication	RS-232, USB, LAN, parallel port
Others	STAT function, connect with urine sediment analysis module
Dimension & Weight	653 mm (L) x 641 mm (W) x 570 mm (H), 68 kg





PKL PPC 395

Automatic Urine Sediment Analyzer



Urine Sediment Analysis

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



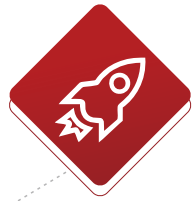
AI Technology

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



High Speed & Reliability

- 120 T/H each module, maximum throughput can be 400 T/H
- To be fast but never compromising on high resolution pictures and reliable results



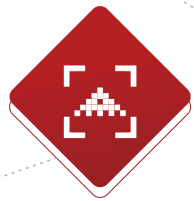
Consolidation of Urine Work Area

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



High Resolution Pictures

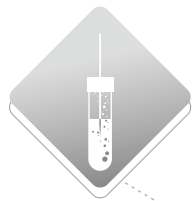
- 400 times magnified image
- 4 million pixels picture
- Guarantee the recognition accuracy rate



New Highlights



- Piercing tube function to prevent the infection of COVID-19 sample aerosol
- New physical parameters: conductivity and osmolality



Principle — AI recognition technology, flat sheath flow technology, digital imaging technology

Parameters — RBC, G1, COIN, GHOST, WBC, PAGOCYTE, WBCC, HYA, PAT, WAXY, CELLULAR, SQEP, NSE, TREP, REN, CAOx, CAOxm, CAOxd, URIC, UNCX, STRUVITE, AMORF, COCCI, BACCILI, YST, CANDIDA, MUCS, SPRM and more are coming soon...
RBC phase detection
MCV, RDW, abnormal RBC ratio
Physical parameters
Conductivity and osmolality
Integrate urine dry chemistry results

*Body fluid (optional) — Cerebrospinal fluid (CSF) /Hydrothorax and ascite/Vaginal secretions RBC, WBC, EC, BACT, etc.

Sample type — Nature urine/Body fluid (Cerebrospinal fluid/Hydrothorax and ascite/Vaginal secretions)

Throughput — 120 T/H each module

Piercing Function — Optional

Sample Volume — ≥ 1.2 mL, online mode ≥ 3 mL

Report Unit — xx/ μ L, xx/HPF, xx/LPF, plus system

STAT Function — Yes

Connection — RS-232, USB, LAN port

Dimension — 698 mm (L)x 674 mm (W)x 575 mm (H)

Weight — 58 kg