

Fully Automated Urinalysis System



**AUTION MAX™**

**AX-4030**

MADE IN JAPAN

***Your Urine Analysis Powerhouse***

**Set Samples • Press Start • Walk Away**

High Volume • High Throughput

Full Automation • STAT Port

Automatic Strip Feeders

Barcode Reader



**ARKRAY, Inc.**

# Fully Automated Urinalysis System

## AUTION MAX™

### Specifications

|                       |  |
|-----------------------|--|
| Sample                | Urine - applied to urine dipstick  |
| Test Items            | Compatible with AUTION Sticks*   |
| Measurement Principle | - Dual wavelength reflectance method<br>- SG: transmission refractometry<br>- Color hue: reflectivity method<br>- Turbidity: light scattering method |
| Wavelengths           | LED: 430, 500, 565, 635 & 760 nm   |
| Speed                 | 225 tests per hour   |
| Reaction Time         | 60 seconds   |
| Data Memory           | 2,700 tests (incl. 200 control tests)  |
| Dimensions & Weight   | W 530 x D 530 x H 530 mm, 41 kg  |
| Operating Environment | Temp.: 10-30° C, Humidity: 30-60% RH   |
| Display               | Large color LCD  |
| External Output       | RS-232C, Ethernet (optional)   |
| Power Supply          | AC 100-240 V, 50/60 Hz   |
| Dipstick Storage      | Max. 400: two feeders, 200 sticks each   |
| Minimum sample volume | 2 mL   |
| Sample Container      | Standard test tube   |
| Maximum sample load   | 100 samples (10 racks)   |
| Built-in Printer      | 24 digits, 58 mm thermal paper   |
| Communication         | One-way or two-way   |

Design and specifications may be subject to change without notice.

Combine the AX-4030 with the Iris iQ\* Microscopy Analyzer to create a complete integrated chemistry/particle analysis platform.



### ARKRAY - Dedicated to Urine Analysis

ARKRAY, Inc. designed the *world's first* urine analysis system in 1972. Since then, our award-winning R&D has continued to deliver state-of-the-art reliable systems to help the laboratory specialist in every possible situation.

### Speed, Accuracy, Reliability

The AUTION Max will change your lab routine for the better. No more time-consuming manual processing and result analysis. This system allows you to spend your valuable time efficiently, while you can trust on accurate and fast urine diagnostics.



Big color display, keypad



Barcode reader



STAT port, STAT rack

#### > Set Samples ► Press Start ► Walk Away

Save time, avoid errors. Simply put your standard test tube rack on the loader, press the Start button and the process will be executed fully automated. Results are printed and stored.

#### > Compact Size, Easy-to-use

The AX-4030 is massive power in a compact size. Measuring only 530 mm in all dimensions, it is much smaller than other units. A clear display and keypad make operation very simple.

#### > Accurate Results, Creatinine Compensation

ARKRAY's AUTION Sticks guarantee high quality. Use 10PA or 'Aution Screen' sticks\*, and P/C ratio or A/C ratio can be calculated automatically for spot urine renal function testing.

### The AUTION Urine Analysis Product Line - Also\* available:



#### PU-4010 PocketChem UA:

- > Palm-sized, portable analyzer
- > Detachable printer
- > Battery or AC powered
- > Reliable, accurate, stylish



#### AE-4020 AUTION Eleven:

- > Semi-automated, versatile system
- > Automatic feeder & timer, up to 514 tests/hr.
- > Light-weight & compact, easy maintenance
- > For both left- and right-handed use



\*NOTE: Ask your distributor for detailed specifications of units/reagents and which products are available in your country.

#### AUTION Sticks\* 10EA / 10PA:

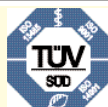
| Item             | Min. detecting sensitivity   | Range  |
|------------------|--|--|
| Glucose          | 50 mg/dL (3 mmol/L)  | 50-1000 mg/dL (3-60 mmol/L)                        |
| Protein          | 15 mg/dL (0.15 g/L)  | 15-1000 mg/dL (0.15-10.0 g/L)                      |
| Bilirubin        | 0.5 mg/dL (8.5 µmol/L)   | 0.5-6.0 mg/dL (8.5-100 µmol/L)                     |
| Urobilinogen     | 2 mg/dL (35 µmol/L)  | 2-8 mg/dL (35-150 µmol/L)                          |
| Creatinine       | 10 mg/dL (0.1 g/L)   | 10-300 mg/dL (0.1-3 g/L)                           |
| pH               | 1.0 unit within the range of pH5-9   | pH5-9  |
| Specific Gravity | Between 1.000 to 1.030 by steps of 0.005   | 1.000-1.030  |
| Blood            | Hemoglobin 0.03 mg/dL (Hemoglobin 0.3 mg/L)<br>Erythrocyte about 10 Ery/µL                         | Hemoglobin 0.03-1.0 mg/dL (Hemoglobin 0.3-10 mg/L) |
| Ketones          | Acetoacetic acid 5 mg/dL (Acetoacetic acid 0.5 mmol/L)   | 5-150 mg/dL (0.5-15 mmol/L)                        |
| Nitrite          | The amount of bacteria about 10 <sup>5</sup> /mL (100/µL)<br>Nitrite 0.08 mg/dL (Nitrite 0.8 mg/L) | Nitrite 0.08-0.5 mg/dL (Nitrite 0.8-5 mg/L)        |
| Leukocytes       | About 25 Leu/µL  | 25-500 Leu/µL                                      |

#### AUTION Screen\*:

| Item       | Min. detection sensitivity | Range          |
|------------|----------------------------|----------------|
| Albumin    | 10 mg/L                    | 10 - 150 mg/L  |
| Creatinine | 10 mg/dL                   | 10 - 300 mg/dL |



ARKRAY, Inc. has obtained ISO certification from TÜV Japan, Ltd.



The AX-4030 Aution Max is distributed by:

#### ARKRAY Europe, B.V.

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(AX 10/06 ANL V1)