

Fully Automated Urine Analyzer



# AUTION MAX™

AX-4280

## The finest urine analysis system.

- Continuous fully automated analysis with easy operation
- Analysis of very small samples with the spotting method
- Exclusive test strip AUTION STICKS
- Temperature compensation function
- Multiple data-processing functions



ARKRAY, Inc.

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### Able to perform total diagnosis

AX-4280 includes functions to measure specific gravity, color or temperature, and to detect abnormal coloration in addition to the analysis of 9 qualitative items in urine.

**Color analysis function...** Density and hue of samples (urine) can be measured. Fine hue information can be obtained in 23 colors.

**Turbidity analysis function...** Turbidity information for samples can be obtained in 3 degrees: "Clear", "Unclear" and "Very unclear".

**Abnormal coloration detection function...** AX-4280 can automatically detect and provide warnings of abnormal coloration of test strip due to administration of drugs, etc.

### Continuous fully automated analysis with easy operation

AX-4280 is a fully automated analyzer, which continuously analyzes samples set on a sample rack. By using a rack transfer system, it can analyze 50 samples or up to 100 samples at one time (Of course, if you want to analyze emergency sample, STAT analysis is available).

### Analysis of very small samples with the spotting method

Samples in a test tube can be aspirated with a nozzle, and can be quantitatively spotted accurately on each reagent sheet on the test strip. You can easily perform analysis using the minimum volume of 2ml of samples.



### Exclusive test strip AUTION STICKS

For AX-4280, "AUTION STICKS", which provides accurate, high-quality data by inhibiting the effect of concomitant materials, is used as an exclusive test strip (A test strip feeder, in which 200 test strips can be set, is built in).

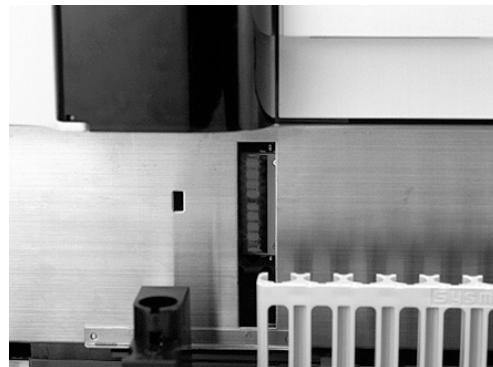


### Temperature compensation function

The optimal ambient temperature range for analysis is from 20 to 25°C for the "AUTION STICKS" exclusive test strip. However, AX-4280 has a high-performance temperature compensation function which eliminates errors due to changes in the ambient temperature within the range of 10 to 30°C.

### Multiple data-processing functions

AX-4280 can store the measurement results for 1,000 samples after classifying by measurement type. In addition, it can communicate bi-directionally with external devices, and can also automatically assign patient IDs with a bar code reader (optional) using bar codes affixed to test tubes.



### Specification

Sample	Urine
Test items	GLU, PRO, BIL, PH, BLD, KET, NIT, LEU, specific gravity, turbidity, color
Wavelengths	5 LED wavelengths (430, 500, 565, 635, 760nm)
Measurement principal	Test strip: Dual-wavelength reflectance method Specific gravity: Transmission refractometry Color: Reflectivity measurement method with compensation pad Turbid: Light-scattering measurement method
Test strip	AUTION STICKS series
Reaction time of test strip	60 sec.
Processing speed	225 samples per hour
Loadable number of test strips	200 strips
Necessary sample volume	2 ml
Volume of sample used	0.95 ml
Sample container	Test tube
Maximum loadable number of samples	100 samples
Data memory capacity	1,000 measurements (including 120 measurements for control)
Display	20-digit × 2-line liquid crystal display
Built-in printer	24-digit thermal type (Width: 58mm)
External output	RS-232C
Communication type	Uni-directional or bi-directional
Operating environment	Temperature: 10-30°C, Humidity: 20-80% (with no condensation)
Analysis environment	Temperature: 10-30°C, Humidity: 20-80% (with no condensation) *Using temperature compensation
Power supply	AC 110-240V 50/60Hz
Power consumption	250VA (maximum)
Dimensions	530 (width) × 530 (depth) × 530 (height) mm
Weight	Main unit: 33kg, Sampler unit: 4kg

Design and specifications may be subject to change without notice.

## ARKRAY, Inc.

57 NISHI AKETA-CHO, HIGASHI-KUJO, MINAMI-KU,  
KYOTO 601-8045, JAPAN  
TEL +81-75-662-8967 FAX +81-75-662-8973  
URL <http://www.arkray.co.jp/>

