

Automated analyzer for clinical chemistry



SPOTCHEM™ EZ

SP-4430

SPOTCHEM EZ performs biochemical measurements easily with the dry method and solid phase reagent.



ARKRAY, Inc.

Automated analyzer for clinical chemistry

SPOTCHEM™ EZ

Simpler than ever operation with built-in centrifuge!

Whole blood samples can be measured easily and promptly with built-in centrifuge for pretreatment.

Continuous measurement, up to 9 items, is available.



Automatic calibration is completed in a second!

By reading the "magnetic card" attached to each test strip, variations among lots and changes with timing of test strips are automatically calibrated. Now users are totally free from complicated operation.



Measurement is so speedy.

Improvement of the sampling mechanism almost doubled the measurement speed at its maximum compared to the current model*.

* Comparison with our product, SPOTCHEM SP-4420.



Exclusive test strip
SPOTCHEM™ II

■ Within-run precision

	Low-concentration	High-concentration
	C.V.	C.V.
Glu	2.3	4.6
UA	1.7	3.7
T-Cho	3.4	1.7
TG	1.9	1.7
BUN	3.1	3.6
T-Bil	3.5	2.3
Ca	3.3	3.3
T-Pro	3.1	5.0
Alb	2.9	2.2
GOT	5.1	2.1
GPT	4.6	1.6
LDH	2.4	2.0
CPK	3.0	1.4
Hb	7.3	3.4
Amy	3.0	2.8
GGT	2.0	3.2
ALP	5.1	2.8
Cre	3.6	2.9
HDL-C	3.6	3.0
FRA	3.0	3.1
IP	2.0	1.9
Mg	3.6	3.0

■ Specification

Sample	Serum, Plasma, Whole blood (only Hb)
Reagent	SPOTCHEM™ II Reagent Strip
Measurement item	Glu, UA, T-Cho, TG, BUN, T-Bil, Ca, TP, Alb, GOT, GPT, LDH, CPK, Hb, Amy, GGT, ALP, Cre, HDL-C, FRA, IP, Mg, Total test items : 22 A maximum of 9 items of simultaneous measurement is available
Measurement principle	Optical measurement of reflection intensity of reagent
Warm-up	10 minutes (25°C)
Processing speed	63tests / h
Minimum sample volume	6× the number of measurement item + 38 μL: (Only when serum is distributed in a sample tube.) Min. 250 μL (When whole blood is distributed in a centrifuge tube.)
Sample consumption	4~6 μL (per 1 measurement item) : serum, plasma
Sample container	Whole blood : exclusive whole blood sample tube, centrifuge tube Serum, plasma : exclusive serum sample tube
Setting sample	1 sample
Display	20 digits × 2 lines LCD (Character display type)
Operator panel	Sheet key
Calibration	Calibration by magnetic card or calibration by calibrator kit
Data storage volume	for 100 measurements
Printer	58 mm width built-in thermal line printer (Max. 36 characters / line)
Light source	LED + Interference filter
Detector	Silicon photodiode
Power supply	AC100~120V, 220~240V 50/60Hz (AC adaptor method)
External output	RS-232C interface, two-way transmission
Bar code	External hand-held type (RS-232C)
Measurement conditions	Temperature : 10~30 °C, Humidity : 20~80% (with no condensation)
Option	compact centrifuge (CF-9520), hand-held bar-code reader,
Dimensions	338 (W) × 203 (D) × 167 (H) mm
Weight	5.4kg

Design and specifications may be subject to change without notice.

ARKRAY, Inc.

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