



Automated analyzer for clinical chemistry

SPOTCHEM™ EZ

SP-4430



Easy to operate and use with dry-type
and solid-phase reagent

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SP-4430

**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" provided in each reagent box, specific reagent lots are automatically calibrated.

Now users are totally free from complicated operation.

Within-run precision

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



Exclusive test strip
SPOTCHEM™ II

Measurement is so speedy.

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

*Comparison with our product,
SPOTCHEM SP-4420.

Specifications

Sample	Serum, Plasma, Whole blood (only Hb)	Setting sample	1 sample
Reagent	SPOTCHEM™ II Reagent Strip	Display	20 digits × 2 lines LCD (Character display type)
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	Operator panel	Sheet key
Measurement principle	Optical measurement of reflection intensity of reagent	Calibration method	Calibration by magnetic card or calibration by calibrator kit
Warm-up	10 minutes (25°C)	Memory capacity	100 measurements results
Processing speed	63 tests per hour	Printer	58mm width built-in thermal line printer (Max. 36 characters / line)
Minimum sample volume	6 × 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.)	Light source	LED + Interference filter
Sample consumption	4~6 μL(per 1 measurement item); serum, plasma	Detector	Silicon photodiode
Sample container	Whole blood : exclusive whole blood sample tube, centrifuge tube Serum, plasma : exclusive serum sample tube	External output	RS-232C interface
		Bar code reader	External hand-held type (RS-232C)
		Measurement conditions	Temperature : 10~30°C, Humidity : 20~80% (non-condensing)
		Option	Compact centrifuge (CF-9520), hand-held bar-code reader
		Dimensions	338 (W) × 203 (D) × 167 (H)mm
		Weight	5.4kg
		Power supply	AC 100~120V, 220~240V 50/60Hz (AC adaptor)
		Power consumption	100W

※Design and specifications may be subject to change without notice.

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