

Piolissoi Superior



LABORATORY SOLUTION

Biolissoj Superior

Higher test performance and operability with new functions

The clinical analyzer in the next stage





The best to the requirements for functionality and usability BiOLiS 50i Superior

The highest throughput in BIOLIS series

• 480 tests/hour for photometry. 580 tests/hour with ISE.

Rapid correspondence by a new function for HbA1c

Hemolysis of whole blood sample for HbA1c is available automatically.
 **The throughput of HbA1c is different from that of general chemistries.

Automatic sample clot detection & automatic cleaning

- Clot detector for the sample probe enhances the accuracy of the test results.
- Automatically cleaning the sample probe in instances where clots are detected.
- Sampling ceases automatically in case clots are not removed.

Accommodate multiple languages

 Multilingual support software provides a user-friendly interface and higher usability.

User interface

- Easy touch screen operation.
- The interface includes improved and additional functions such as sample status screen, and others.

Dedicated sample probe for ISE

• The sample probe directly connected to ISE transfers the sample to electrodes.

Common reagent bottles

• R1: 70 m ℓ , R2: 20 m ℓ , two sizes can be used.

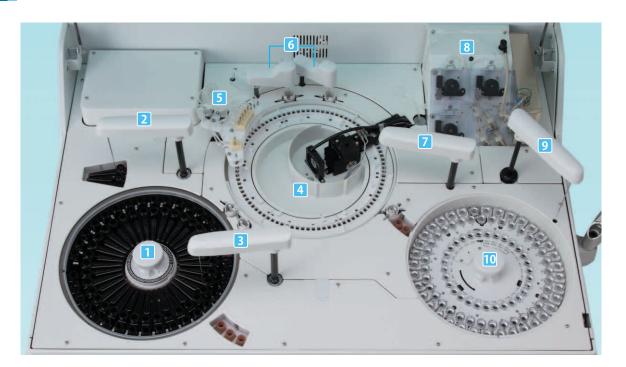
Accuracy Features

- Sample clot detection
- Dedicated sample probe for ISE
- Carry-over protection program for reaction cuvettes and probes
- Pre-dilution
- Auto-rerun
- Cuvette skip
- Five mixing speeds

Operation Features

- Sample cups (0.5 m\(\ell\), 1.5 m\(\ell\)),
 Primary tubes (2 m\(\ell\), 5 m\(\ell\), 7 m\(\ell\), 10 m\(\ell\))
- Availability for using multiple bottles of the same item
- Reaction waste stored in a dedicated tank
- Common reagent bottles (R1: 70 mℓ, R2: 20 mℓ)
- Hemolysis of whole blood sample for HbA1c
- Sample and reagent barcode readers as standard feature
- Bidirectional communication

Main Unit Arrangement



1 Reagent tray	R1: 36, R2: 35 position. Cooling temperature: 8-12°C
2 R1 probe	20-240 μℓ (in 0.5 μℓ steps) dispensing
3 R2 probe	st Minimum total reaction volume is 120 μ ℓ
4 Reaction tray	90 semi-disposable cuvettes. Cuvette skip function is available.
5 Cuvette washing station	Cuvette washing with alkaline and acid washing solutions and heated water.

6 Mixing unit	Five mixing speeds
7 Sample probe	1-20 μℓ (in 0.1 μℓ steps) dispensing
8 ISE module	Na, K, Cl measurement
9 ISE probe	Dedicated sample probe for ISE
10 Sample tray	72 samples on board.



Specifications

	System	Discrete single line random access multi-test analysis			
Analysis	Number of test items on board	36 + 3 items (ISE)			
	Throughput	480 tests/hour, 580 tests/hour with ISE			
		*160 tests/hour for HbA1c only (with hemolysis)			
	Analysis methods	End point assay, Rate assay, ISE			
	Calibration curve	8 kinds (Linear, Spline, etc)			
	Contents of test	Serum, Plasma, Urine, Dialysis, CSF (ISE not available for CSF)			
	Sample container	Sample cups (0.5 m\ell, 1.5 m\ell), Primary tubes (2m\ell, 5 m\ell, 7 m\ell, 10 m\ell)			
	Number of samples on board	72 patient samples and standard samples, 30 positions for QC and/or STAT samples			
Sample	Sample dispensing volume	1- 20 μℓ (in 0.1 μℓ steps)			
	Dilution ratio	3-100 times			
	STAT	Available during mesurement			
	Sample barcode reader	Available			
	Number of bottles on board	R1: 36 positions, R2: 35 positions			
	Bottle size	R1: 70 ml, R2: 20 ml			
Reagent	Reagent dispensing volume	20-240 μℓ (in 0.5 μℓ steps)			
	Reagent Storage	Reagent tray cooling available			
	Reagent residual volume	Level sensing or count down calculation			
	Reagent barcode reader	Available			
	Cuvette material	Plastics (Semi-disposable)			
	Number of cuvettes	90			
	Cuvette washing	Auto washing with heated water and 2 kinds of washing solutions			
	Washing solution	Alkaline and acid washing solutions			
	Cuvette skip function	Available			
	Reaction time	3.5 min. after sample dispensing + 5 min. after R2 dispensing			
Reaction	Reaction volume	120- 300 μℓ			
neaction	Reaction temperature	37°C ± 0.3°C			
	Photometric assay method	Grating method			
	Optical measurements	12 fixed wavelengths (340, 380, 405, 450, 505, 546, 570, 600, 660, 700, 750, 800 nm)			
	Optical source	Tungsten halogen lamp			
	Optical range	OD 0- 3.0			
	Mixing	By stirrers			
	Mixing speed	5 speed levels available			
	Operation	Personal computer			
laka of a a a	OS	Windows 7			
	Output	RS232C serial cable, LAN (TCP/IP)			
Interface	Reaction curve monitor	Optical absorbance graphic display			
	Quality control	Realtime QC, Within a day, Day-to-day variation			
	Test results storage	100,000 tests			

^{*}The specifications are subject to change without notice.

Test Items List

	LD(LDH)	AST(GOT)	ALT(GPT)	ALP	γ-GTP	CK(CPK)	LAP
Clinical	ChE	AMY	P-AMY	BUN	CRE	UA	T-CHO
	TG	HDL-C	LDL-C	TP	ALB	Ca	IP
	Mg	Fe	UIBC	D-BIL	T-BIL	GLU	NEFA
Chemistry	PL	ALD	SIA	TBA	GA	CK-MB	
	Apo A-I	Apo A-II	Apo B	Apo CII	Apo CⅢ	Apo E	
	Lp(a)	Fer	μ TP	NAG	μALB	HbA1c	HBAO
(manage and a second	CRP	RF	ASO	TPLA	RPR	β2-m	Tf
Immunoassay	C3	C4	Ig-G	Ig-A	Ig-M	Ig-E	
TDM	BRP	CBZ	CSA	DIG	DIGT	HAL	PB
TDM	PHT	THEO	VPA				
Coagulation	АТШ	APL	PLG	PC	FDP	D dimer	
ISE	Na	K	CI				

*Some test items are during verification.

User Interface

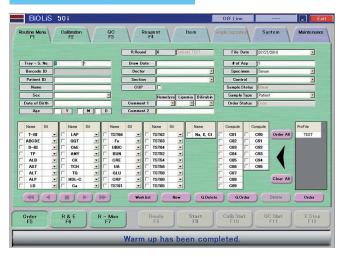
Simple Operation

Direct access to each function by clicking tabs and buttons shown on the main screen

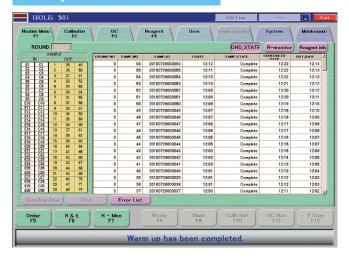
New feature for time management

The list of time records for orders or test results is displayed in "Sample Status Screen"

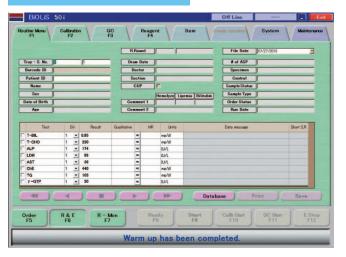
Order Entry Screen



Sample Status Screen



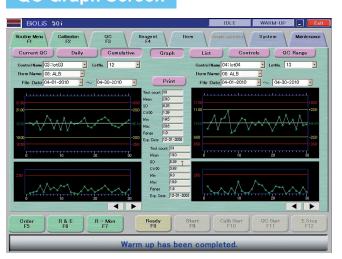
Test Result Screen



Run Monitor Screen

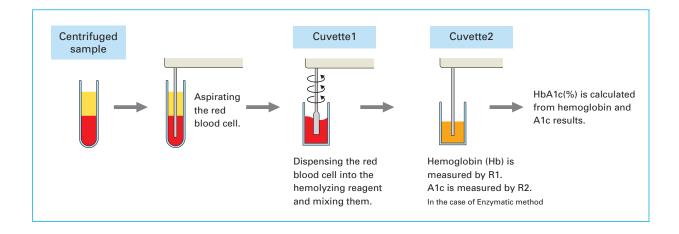


QC Graph Screen





HbA1c sample preparation and measurement

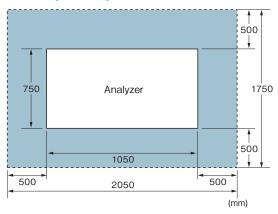


Installation

Conditions

Item	Description
Dimensions and weight	Analyzer W1050 x D750 x H1145 (mm) Approx. 300kg
Power supply	AC100/115/230V±10%, 50/60Hz Voltage fluctuation: Less than 10%
Power consumption	1.2kVA
Grounding	Earth resistance of ground terminal should be less than $10\Omega.$
Ambient temperature	15-30°C ±2°C/hour during measurement
Humidity	45-85% (No condensation)
Water consumption	Max. 13 ℓ/hour
Waste liquids	Separate drainage (low and high density waste)

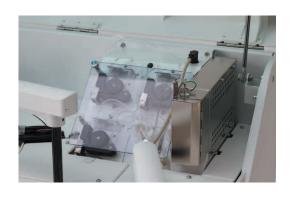
■ The space required for installation



 $\ensuremath{\mbox{\%}}\xspace$ At least 500 mm space required for safety and maintenance.

ISE module (Option)

- Direct method
- Dedicated sample probe for ISE
- Na, K, Cl in serum, plasma and urine can be measured
- Sample volume: 100 μℓ
- Electrodes can be commonly used in BIOLIS series



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