BIOLIS 24) Premium



LABORATORY SOLUTION

BIOLICALI Premium

Improved ease of operation and better test efficiency, and provides the optimal solution for routine operations, STAT operation and a broad range of clinical analysis requirements.





The newest Software makes it possible to take usability a step further

The renewal of user friendly software

New convenient functions are available, such as check for inappropriate calibration results by flag indication compared to the previous results, and capability of using multiple bottles of the same reagent item on the same tray, etc.

Friendly user-interface

Real-time display of analysis process, reagent residual volume and so on.

Sharp reduction of reaction volume

Improvements to the optical measurement system have reduced reaction volume by maximum 30% compared to the former model, BIOLIS 24i.

Sample volume reduction

Analyzer can test small volume samples (around 50 μl), effectively, such as those obtained from the elderly or infants.

Night shift mode operation

Night shift mode enables simpler test.

Simple reagent management

Automatic reagent residual volume calculation system allows display of real-time residual volume percent.

LAN connection

Can be connected to an electronic chart of hospital LAN. (Option)

Low noise

Operation noise is reduced by around 20% compared to BIOLIS 24i.



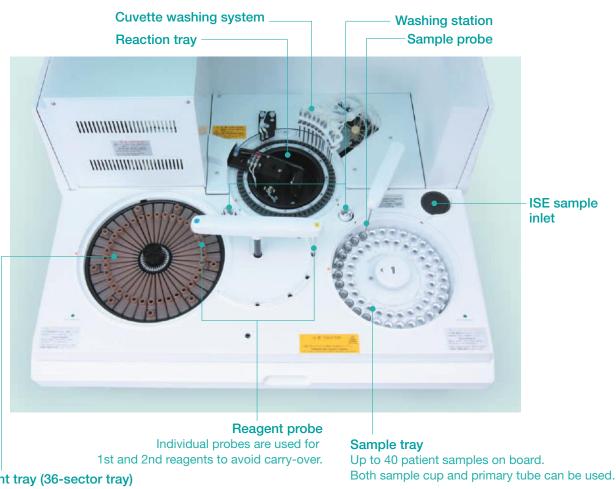
Accuracy features

- Individual probes are used for 1st and 2nd reagents to avoid carry-over.
- Sample pre-dilution ratio and auto-rerun dilution ratio can be set in advance.
- Carry-over protection program for reaction cuvettes and probes.
- Detecting function for contaminated reaction cuvettes are available.
- Reagent cooling is available.
- Reaction cuvette washing with heated water and 2 kinds of washing solution (alkaline and acidic) and heated water washing for all probes.

Operation features

- Sample cup and primary tube (5, 7, 10 mℓ) can be used.
- Auto-gain function when lamp is replaced.
- Reaction waste is stored in a dedicated tank.
- Test result data are compatible with BIOLIS 24i.
- Sampling-stop function using END barcode is available.
- Data base control function is available.
- Improved error list is displayed (compared to BIOLIS
- Liquid level alarm for water reservoir and waste liquid reservoir is available.

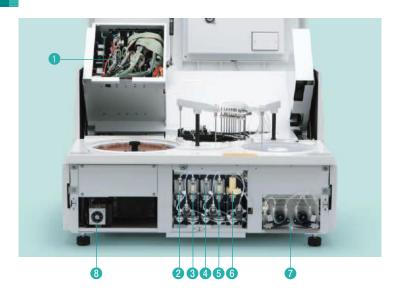
Main unit arrangement



Reagent tray (36-sector tray)

24-sector tray available as an option

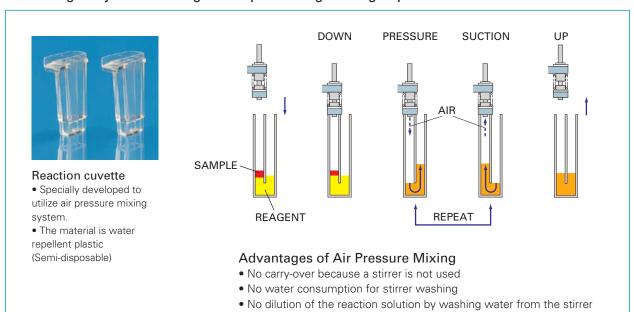
Front view



- Control PCB
- 2 Reagent pump
- Reagent probe inside washing pump
- 4 Sample pump
- 5 Sample probe inside washing pump
- 6 Probe outside washing pump
- Pump for ISE
- Reagent tray temperature controller

Air pressure mixing system

• Our original system for mixing the sample and reagent using air pressure alone.



ISE module (OPTION)



[A] ISE is Direct Method

- Throughput is 400 tests/hour including ISE.
- ISE module is equipped with BIOLIS 24i Premium.
- It makes easy to replace the electrode.



- [B] Consumables of the ISE module as follows
 - Calibrator
 - Cleaning solution
 - Electrode (Na, K, Cl, Ref)

Friendly User-interface

Renewal of User-interface

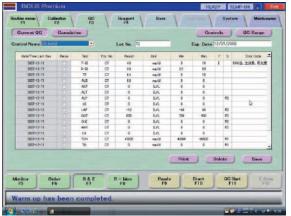
Readily understandable screen and ease of operation

New functions

Automatic reagent residual volume calculation, Current QC screen, Simple operation mode, Soft sample tray mode, etc.



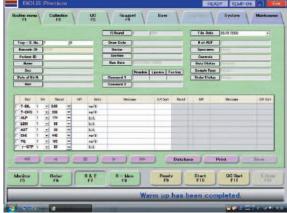
Order entry screen



QC screen



Run monitor screen



Test results screen



QC graph screen

Test items list

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



Specification

	System type	Discrete single line random access multi-test analysis					
	Number of test items on board	36+3 (ISE) or 24+3 (ISE)					
Analysis	Throughput	240 tests/hour, 400 tests/hour including ISE					
	Analysis method	End point assay, rate assay, ISE (option)					
	Calibration curve	9 kinds (linear, spline, etc)					
	Communication of	0					
Sample	Sample kind	Serum, plasma, urine, CSF					
	Sample container	Sample cup, primary tube (5, 7, 10 m ℓ) Maximum 55/tray					
	Number of sample on board	Maximum 10					
	Number of sample tray	2.0- 30.0 μℓ (0.1 μℓ step)					
	Sample dispense volume Dilution ratio	6, 10- 100					
	STAT sample	Available					
	Sample barcode	Barcode reader supplied as an option					
	Sample barcode	Dailoue reader supplied as all option					
Reagent	Number of bottles on board	72 (36 items) or 48 (24 items)					
	Bottle volume	13, 25, 40 ml or 20, 40, 60 ml					
	Reagent dispense volume	20- 330 μℓ (1 μℓ step)					
	Reagent storage	Reagent tray cooling available					
	Residual volume	Level sensing or count down calculation					
	Reagent tray	36-sectors or 24-sectors (Removable)					
	Reagent barcode	Barcord reader supplied as an option					
	0	DI 1: (0 : 1: III)					
	Cuvette material	Plastics (Semi-disposable)					
Reaction	Reaction volume	Minimum 140 μℓ, maximum 400 μℓ					
	Reaction time	10 min. (1st reaction 5 min., 2nd reaction 5 min.) 37.0 ± 0.1°C					
	Reaction temperature						
	Optical measurement	12 fixed wavelengths (340 -800 nm)					
	Optical source	Tungsten halogen lamp (Long-life type)					
	Optical range Cuvette washing	OD 0- 2.5 Auto washing with heated water and 2 kinds of washing solution					
	Reaction waste collection	Reaction waste to be stored in a dedicated tank					
	Pure water consumption	Maximum 3.5 l/hour					
	rule water consumption	Maximum 3.3 £/110di					
User interface	Run monitor	Analyzer operation status display					
	Reaction curve monitor	Optical absorbance graphic display					
	QC	Based on Westgard's algorithm, etc.					
	Voice message	Available					
	Test results storage	10,000 samples maximum					
	Printer	Internal, External (option)					
	Power supply	AC 100/115/230 volt (50/60 Hz)					
	Environmental conditions	Ambient temperature 15- 30°C, Humidity 30- 80% (No condensation					
	Dimension	800 mm (w) x 670 mm (d) x 520 mm (h)					
	Weight	Approx. 95kg					
Option	ISE module						
	Sample barcode reader, Reagent barcode reader						
	Water purification system External printer						
	*Specification may change without notice due to modification						

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