

BIOLIS30i

Automated Clinical Analyzer



LABORATORY SOLUTION

BIOLIS30i

Improved user-friendly interface and test efficiency

The latest model of Biolis series meeting various needs of clinical laboratory tests





Compact & Easy Operability & Excellent Function BIOLIS30i

Brand new user interface

- Intuitive screen layout with a sense of unity
- Item parameter in one screen relieving the bother of page feeding

Upgraded operability

- Various touch panel operation (swipe-to-select / drag & drop) contributing to better facility of operation
- Enlarged touch buttons for reducing operation errors

Upgraded throughput

• 270 tests/hour (maximum 450 tests/hour with ISE)

Hemolysis of whole blood sample for HbA1c

• Automatic process on board contributing to the test efficiency

Automatic sample clot detection

• Automatic detection & clean-up of sample probe clots (such as fibrin)

Crash prevention

• Prevent reagent & sample probes from crash during operation for safety

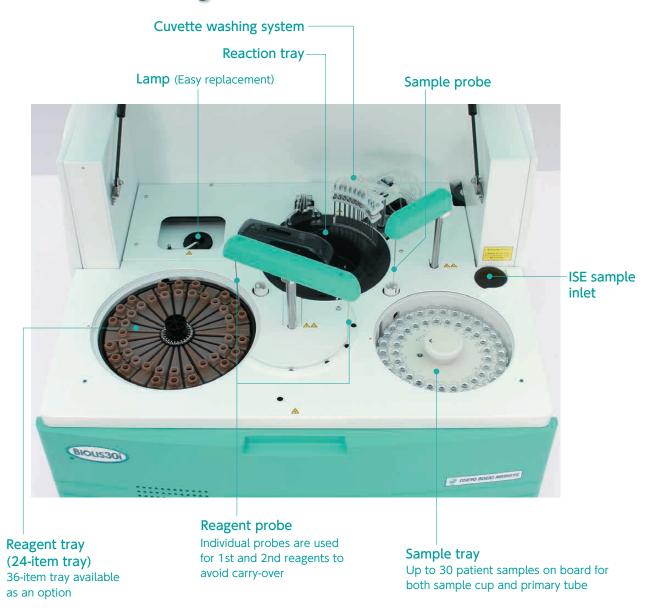
Automatic startup and shutdown

• Stress-free operation by cutting waiting time

Ethernet connections

• Ethernet connections between machine and operation PC for higher-speed and more stable communication

Main unit arrangement

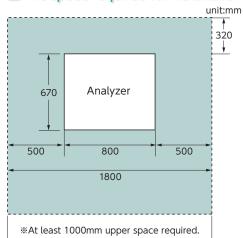


Installation

Conditions

Item	Description				
Dimensions and Weight	Analyzer W800×D670×H555(mm) Approx. 95Kg				
Power supply	AC 100/115/220/230V、50/60Hz Voltage fluctuation less than 10%				
Power consumption	600VA				
Grounding	Earth resistance of ground terminal should be less than 100Ω				
Ambient temperature	15~30℃				
Humidity	45~85% (No condensation)				
Water consumption	Max 3.8 l / hour				
Waste liquid	Separate drainage (low and high density waste)				

■ The space required for installation





Specifications

	System	Discrete single line random access multi-test analysis			
Analysis	Number of test items on board	36+3 (ISE) or 24+3(ISE)			
	Throughput	270 tests/hour, 450 tests/hour including ISE, 90tests/hour for HbA1c only			
	Analysis method	End point, Rate, ISE			
Sample	Calibration curve	8 kinds (linear , spline, etc)			
	Sample kind	Serum, Plasma, Blood cell, Urine, Dialisys, CSF (ISE not available for CSF and Blood cell)			
	Sample container	Sample cups , primary tube (5, 7, 10ml)			
	Number of samples on	Software tray (30 positions for patient sample, and 45 positions for			
	board	standard and blank sample)			
	Sample tray mode (software tray)	Selectable modes for patient sample, calibration and QC			
	Sample dispensing volume	$2.0 \sim 25.0 \mu l (0.1 \mu l \text{ step})$			
	Dilution ratio	$0.5 \sim 100 \text{ times}$			
	STAT	available during measurement (step between samples by priority)			
	Reagent tray	36 items or 24 items (removable)			
	Number of bottles on board	72 (36 items) or 48 (24 items)			
	Bottle size	36 items : 13, 25, 40 ml			
Reagent		24 items : 20, 40, 60 ml			
	Reagent dispensing volume	R1 : $140 \sim 300 \mu l(1 \mu l \text{ step})$, R2 : $20 \sim 260 \mu l(1 \mu l \text{ step})$			
	Reagent storage	24 hours cooling			
	Reagent volume check	Level sensing or count down			
	Cuvette material	Plastics (semi-disposable)			
	Reaction volume	140μ l $\sim 400\mu$ l			
	Reaction time	approx 10 min. (1st reaction 5 min., 2nd reaction 5 min.)			
Reaction	Reaction temperature	37±0.1℃			
	Optical measurements	Fixed 13 wavelengths (340 \sim 800nm)			
	Optical source	Tungsten halogen lamp			
	Optical range	OD 0 ~ 2.5			
	Cuvette washing	Auto washing with heated water and 2 kinds of washing solutions			
	Reaction waste collection	Reaction waste stored in a dedicated tank			
	Pure water consumption	Maximum 3.80 /hour			
	Operation	Personal computer			
Interface	OS	Windows 10			
	Reaction monitor	Optical absorbance graphic display			
	Quality control	Current, Daily and Cumulative QC. Westgard algorithms			
	Output	Ethernet connection			
Option	ISE module				
	Sample barcode reader, Reagent barcode reader				
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 $[\]ensuremath{\mbox{\%}}$ Specifications are subject to change without notice.

Test Items List

Clinical chemistry	LD(LDH) ChE Cys-C IP GLU L-FABP *PL	AST(GOT) AMY TG Mg HbA1c T-BIL *SIA	ALT(GPT) P-AMY T-CHO Ca 1,5-AG D-BIL *Fer	ALP LAP HDL-C Fe GA TTT *Li	γ-GTP CRE LDL-C UIBC μΤΡ ZTT	CK(CPK) UA TP Zn μALB NH3	CK-MB BUN ALB Cu IRI *NEFA
Coagulation	*ATII	*FDP	*D-dimer				
Immuno-assay	CRP *IgE	RF MMP-3	TPAb	RPR	*IgG	*IgA	*IgM
TDM	VCM CBZ	ABK DIG	TPM HAL	MTX PB	EVER PHT	TACR THEO	BRP VPA
ISE	Na	K	Cl				

^{*} Above includes test items under verification.

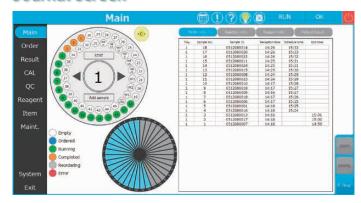
User Interface

Run monitor screen



Monitor measurement info by cycles

Journal screen



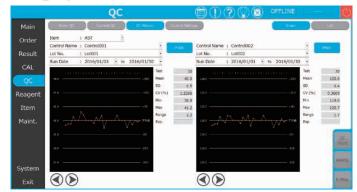
View sample ordered time and result out-put time

Order screen



Easy to select test items by swiping the touch screen

QC graph screen



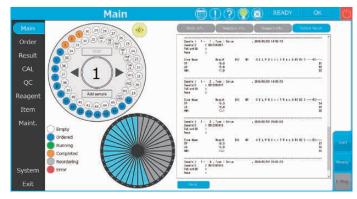
Current, daily, and cumulative QC

Auto startup & shutdown screen



Auto maintenance available before shutdown

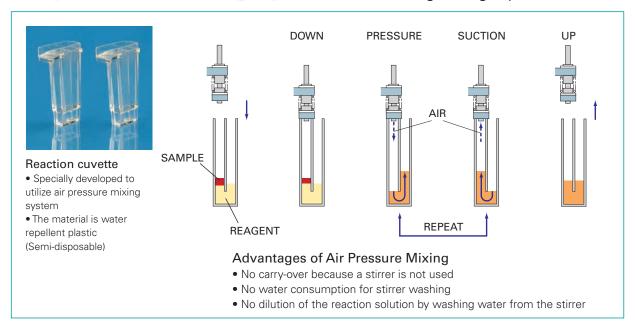
Result screen



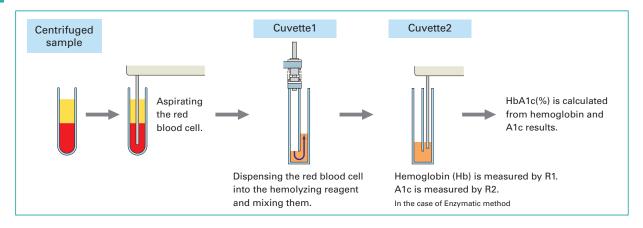
Show current day test results (Separate printer needed for output)

Air pressure mixing system

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



HbA1c sample preparation and measurement



ISE module (OPTION)







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