

DS2 & DSX

Fully automated ELISA analyzers



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Quality – flexibility – reliability

The DS2 is a fully open 2-plate analyzer allowing up to 6 parallel tests in 96 wells format according to workflow defined by the diagnostic kit manufacturer.

The DSX 4-plate analyzer is capable of performing up to 12 parallel assays and it is designed to process multiple samples.

Both analyzers consist of one central sample station, pipetting robotic arm, two (DS2) or four (DSX) separate incubators, one absorbance reading station and one washing station.

The analyzers are controlled by an external computer and a software.



User comfort

- Device installation and training within few hours
- Intuitive software with simple graphical interface
- Time-saving maintenance
- Online help available
- Data export and import in various file formats; quick report and a possibility of sending it by email

Safety

- Detection system monitoring samples and reagents pipetting
- Detection of liquids volumes, foam, clots or bubbles in a sample
- Washer - liquid-level monitoring
- Acoustic notifications

Modular system

- Fast repairs, upgrades and device configuration changes
- Automatic recognition and integration of a new module

Technical specifications DS2 & DSX

Analyzer	DS2	DSX
Capacity	2-plate fully opened	4-plate fully opened
Samples	processing of 96 samples, possibility of two-stage sample dilution in dilution strips	
Primary sample tubes	height 40 – 100 mm diameter 10 – 16 mm	height 40 – 75 mm or 75 – 100 mm diameter 10 – 16 mm
Robotic and pipetting system	1 pipetting arm 2 types of tips (300 µl for samples/controls and 1300 µl for reagents) volume control system	
Tip trays	2 x 108 for samples, 20 for reagents	4 x 108 for samples, 41 for reagents
Pipetting volume	samples 10 – 250 µl, reagents 20 – 1000 µl	samples 10 – 250 µl, reagents 25 – 1000 µl
Pipetting accuracy	< 3% CV (accuracy ± 2%)	
Pipetting arm speed	samples < 15 minutes/plate (50 µl x 96 wells) two-stage dilution < 20 minutes reagents < 2 minutes/plate	samples < 19 minutes/plate (50 µl x 96 wells) two-stage dilution < 26 minutes reagents < 2 minutes/plate
Washing	8-channel wash head, 1 washing station, level sensing	
No. of solutions	2 washing solutions	4 washing solutions
Waste	integrated container (1.5 l)	integrated container (8 l), level sensor
Measurement	1 photometer	
Photometric range	0 – 3,0 OD	
Spectral range	405 – 690 nm	
Incubation	2 heated, independent incubation units	4 heated, independent incubation units
Shaking	continuously or periodically	
Temperature range	RT + 4 °C – 40 °C (±1 °C)	RT + 7 °C – 50 °C (±1 °C)
Hardware	external PC	
Software	operating system Windows XP, bidirectional ASTM interface, XML, etc. archiving patients results, quality control by Levey-Jennings, Westgard rules	
Dimensions (W x H x D)	540 x 660 x 680 mm	1060 x 800 x 910 mm
Certification	CE marked, IVD certified	

Summary

- Fully open systems (possibility of using all types of diagnostic ELISA kits)
- Possibility of processing Microblot-Array kits
- Bidirectional communication interface
- Easy operation and optimized function settings
- Fast samples and reagents pipetting
- Possibility of two-stage sample dilution, pipetting amount adjustable from 10 to 250 µl
- Optional barcode reader
- Up to 24 or 48 parallel assays per one run

MANUFACTURER:



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