

DS2™



DS2 is a fully automated microplate immunoanalyser designed for small-medium laboratories. 2 microplates are processed simultaneously with up to 12 tests in one profile.

Automation of sample dispensing with disposable tips, reagent dispensing, microplate washing, incubations (time and temperature), photometric reading and data reduction.

Positive sample and plate identification.
Host link interface.

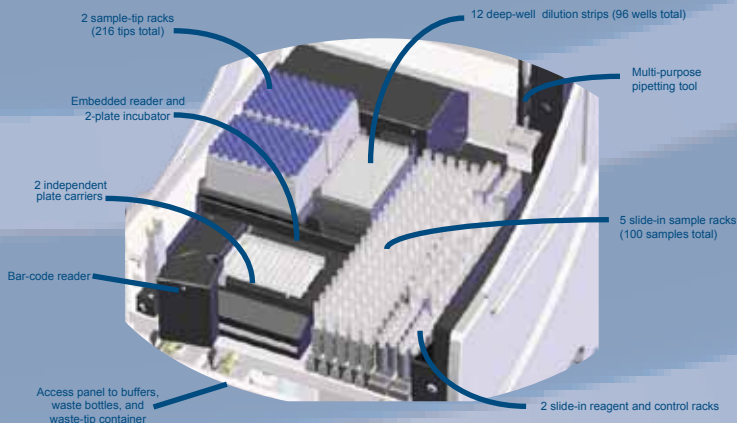


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DS2 Specifications

INTERNAL VIEW



DS2 makes automation easy

DS2 is ideal for ELISA application from clinical diagnostics, such as auto immune and infectious disease, to food safety and drugs-of-abuse testing.

DS2 quickly and easily processes two 96-well microplates and up to 12 different assays simultaneously and features the most user-friendly control system available, chain of custody, and instrument diagnostics.



DS2 Delivers sample-in / results-out automation of microplate assays.

- 216 sample tips
- 96 dilution vessels in convenient 8-way strips
- 20 reagent tips
- 8 large & 10 medium reagent bottles
- 24 standard/control bottles

DS2 Specifications

SOFTWARE

Intuitive, easy-to-use

The simple, graphical interface means that any lab technician can use the DS2 with minimal training.

The assay writer, with drag&drop icons, walks you through the entire programming process, prompting you step by step, making set-up of your assay a breeze.



Following the process

Once you begin running your assay, the process timeline and simulator show you exactly where you are and how much time you have left. Patent-pending ESP provides in-process verification of critical fluid and sample transfer.

Worry-free system assures accurate results

You can set up the DS2 to deliver an audible alarm and/or send you an e-mail outlining the alert. You can even send to technical support a problem description from within the application, with the system information automatically attached.

DS2 Technical Specifications

General specifications

Number of plates:	2
Sample capacity:	100 per load
Continuous load:	Yes
Sample-tube size:	10 – 16 mm diameter 40 – 100 mm height
Reagent-fluid capacity:	8 x 25 mL bottles 10 x 15 mL bottles
Control-fluid capacity:	24 x 2 mL vials
Dilution capacity:	(96) 12 x 8 deep-well strips
Sample-tip capacity:	216 tips
Reagent-tip capacity:	20 tips
Assays per plate:	Up to 12
Selftest at startup:	Yes

Physical specifications

Width:	54 cm / 21 in
Depth:	68 cm / 27 in
Height:	66 cm / 26 in
Weight (net):	48 kg / 105 lb
Shipping weight:	100 kg / 220 lb

Power supply

Voltage:	100 – 240 V auto-switching
Frequency:	50/60 Hz
Power consumption:	<300 VA

Incubator specifications

Temperature range:	Ambient + 4°C-40°C
Temperature uniformity:	+/- 1°C across plate @ 37°C
Shaking:	Independent linear motion 14-20 Hz (periodic or continuous)

Process security

Liquid-level sensing:	Yes (reagents, controls, and samples)
Level-sensor system:	Pressure differential
Clot detection:	Yes
Foam detection:	Yes
Dispense-anomaly detection:	Yes
Tip detection:	Yes
Well-fill verification:	Yes
Alarms:	Yes

Reader specifications

Dynamic range:	0 – 3.0 OD
Spectral range:	405 – 690 nm
Filter slots:	6
Reading channels:	12 plus reference channel
Reading modes:	Single, dual
Read time:	<30 sec (single wavelength) <50 sec (dual wavelength)
Precision:	<1% CV (<2.0 OD)
Accuracy:	<1.5% CV (2.0 – 3.0 OD) +/- 0.005 OD or 2.5% (whichever is greater)

Washer specifications

Manifold configuration:	8-way
Dispense-volume range:	50-1000 µL
Wash cycles:	1-9 (repeatable)
Residual volume:	<3 µL
Super aspirate mode:	Yes
Wash-buffer capacity:	2 x 2 L
Low-buffer alarm:	Yes
Waste-water container:	1 x 1.5 L

Pipetting specifications*

Type:	Disposable tips (2 types)
Sample-tip range:	Tip type 300 µL (10-250 µL dispense range)
Reagent-tip range:	Tip type 1,300 µL (20-1,000 µL dispense range)
Maximum dilution:	1 to 5,000
Serial dilutions:	Yes
Precision, sample tip:	<3% CV (10-200 µL)
Precision, reagent tip:	<3% CV (20-1,000 µL)



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Order information:

“DS2”

Ref.: 3710-0342

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