

DS2® Specifications

Physical Specifications

Dimensions

Width:	54 cm	21 in
Depth:	68 cm	27 in
Height:	66 cm	26 in
Weight (net):	48 kg	105 lb
Shipping weight:	78 kg	170 lb

Power Supply

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

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

Reader Specifications

Dynamic range:	-0.100 – 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)
Precision:	<1% CV (<2.0 OD) <2% CV (2.0 – 3.0 OD)
Accuracy:	+/- 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
Soak time:	0 – 999 seconds
Dispense pressure:	Pre-set
Rinse function:	Input connector for user's external bottle, any size
Waste-water container:	1 x 1.5 L

Incubator Specifications

Temperature range:	Ambient + 4° C to 40° C
Temperature uniformity:	+/- 1° C across plate @ 37° C
Shaking:	Independent linear motion 14-20 Hz (periodic or continuous)
Incubation time:	Programmable
Time to set temperature:	<1 min
Temperature monitoring:	Yes

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
Replicates:	Up to 96 samples, standards and controls
Precision, sample tip:	<3%CV at any operating volume above 10ul (single shot mode)
Precision, reagent tip:	<3%CV at any operating volume above 20ul (single shot mode)

Process Security

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

Software

Computer (not included): Current model desktop or laptop PC running MS Windows® Professional. Contact Dynex for current supported version(s) prior to purchase.

Controlling software:	DS-Matrix™
Work protocols (assays):	Unlimited
Data processing:	Quantitative and qualitative
Levey-Jennings:	Yes
Westgard rules:	Yes
Process reporting:	Event log + error log
Automatic error recovery:	Yes
Password access control:	Yes

Ordering Information

62000	DS2 System
62010	DS2 System w/Barcode Scanner
62700	Barcode Scanner

Consumables

62910	Deep-well strips (250/box)
62920	Reagent tubes, 25 mL (10/pack)
65950	Reagent tubes, 25 mL (24/Pack)
62930	Reagent tubes, 15 mL (10/pack)
65920	Reagent tips (432/box)
65910	Sample tips (432/box)
65940	Control vials w/caps (33/pack)



OEM capability for assay development



IEC/EN 61010-1:2001
IEC/EN 61010-2-010:2003
IEC/EN 61010-2-081:2002
IEC/EN 61010-2-101:2002
UL 61010-1:2001
CSA C22.2 No. 61010-1
EMC: IEC 61326-1:2005(EN 61326-1:2006)
IEC61326-2-6:2005(EN61326-2-6:2006)



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Specifications subject to change without notice.

* Factory calibration of the pipette module are carried out using a calibration fluid.

DS2 is a general purpose microplate processor. It is the customer's sole responsibility to determine the DS2 system's suitability for a particular application, including any clinical application, and validate the product for that use in compliance with all applicable legal requirements and policies.

Dynex makes no representations, warranties, or performance claims with respect to the performance of DS2 for any specific application, including clinical application, or for the use of the DS2 system with any reagents, assays, or other products.

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