



DS2 Specifications



About DYNEX Technologies

DYNEX is a worldwide manufacturer of microplate instrumentation, seamlessly integrating advanced detection with fully-automated sample handling, consumables and accessories. The DYNEX systems have a proven track record of high-quality products, excellent service and support.

Ordering Information

Product #	Instrument/Components
62000	DS2 System
62010	DS2 System with barcode scanner
62700	Barcode scanner

Product #	Consumables
62910	Deep-well strips (250/box)
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 with caps (33/pack)



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Physical Specifications

Dimensions	Metric	Non Metric
Width:	54 cm	21 in
Depth:	68 cm	27 in
Height:	66 cm	26 in
Footprint:	0.36 sq m	3.9 sq ft
Bench Weight:	48 kg	105 lbs
Ship Weight:	78 kg	170 lbs
Noise:	Noise output < 78 dB	

Power Supply Requirements

Voltage:	100 – 240 V automatic conversion
Frequency:	50/60 Hz
Power Consumption:	< 300 VA

System Specifications

Number of Plates:	2
Sample Capacity:	100 per load
Continuous Sample Loading:	Yes
Sample Tube Size:	10 mm – 16 mm diameter 40 mm – 100 mm height
Number of Reagents:	Up to 8 (25 mL tubes) Up to 10 (15 mL tubes)
Number of Standard/Control Bottles:	24 (2 mL vials)
Assays per Plate:	Up to 12
Dilution Wells Capacity:	Up to 96 deep-well strips (12 x 8)
Sample Tip Capacity:	216 tips (2 x 108)
Reagent Tip Capacity:	20 tips

Reader Specifications

Photometric Range:	0.100 – 3.0 OD
Spectral Range:	405 nm – 690 nm
Filter Slots:	6 wavelength
Precision:	< 1% CV (< 2.0 OD) < 2% CV (2.0 – 3.0 OD)
Accuracy:	± 0.005 OD or 2.5% (0.000 – 3.000 OD) whichever is greater
Read Time:	< 30 sec (single wavelength)

Washer Specifications

Manifold Configuration:	8-way
Programmable Volumes:	50 µL – 1,000 µL
Wash Buffer Capacity:	2 wash bottles at 2 L, with level-sensing
Residual Wash Volume:	< 3 µL with super sweep
Dispense Precision:	≤ 5% CV (with 300 µL in a 96 well plate)
Waste Container:	1 x 1.5 L

Incubator Specifications

Number of Incubators:	2
Temperature Range:	Ambient + 4° C to 40° C
Temperature Accuracy:	± 1° C across plate @ 37° C
Shaking:	Independent linear motion 14 – 20 Hz (periodic or continuous)
Temperature Monitoring:	Yes

Reagent Pipetting Specifications

Reagent Tip Size:	1,300 µL
Reagent Pipetting Volume:	20 µL – 1,000 µL
Precision, Reagent Tip:	< 3% CV at any operating volume above 20 uL (single-shot mode)

Sample Pipetting Specifications

Sample Tip Size:	300 µL
Sample Pipetting Volume:	10 µL – 250 µL
Sample Pipetting Precision:	< 3% CV at any operating volume above 10 uL (single-shot mode)
Dilution Range:	1 part in 199 one-stage dilution 1 part in 39,601 two-stage dilution

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
Electronic Signature Pipetting:	Yes
Alarms:	Yes

Software

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

Attributes and specifications subject to change without notice.



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