

DSX 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

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Product #	Instrument/Components
65100	DSX Ambient System (no incubators)
65200	DSX System with 2 incubators
65400	DSX System with 4 incubators
65600	Incubator module
65700	Sample ID barcode scanner module
Product #	Consumables
65930	Deep-well microplate, 1 mL
62910	Deep-well strips (250/box)
65950	Reagent tubes, 25 mL (24/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:	106 cm	42 in
Depth:	91 cm	36 in
Height:	80 cm	32 in
Footprint:	0.98 sq m	10.5 sq ft
Bench Weight:	136 kg (max.)	300 lbs (max.)
Ship Weight:	244 kg (max.)	537 lbs (max.)

Power Supply Requirements

Voltage: Frequency: Power Consumption: 100 – 240 V automatic conversion 50/60 Hz < 800 VA (online UPS recommended)

System Specifications

Number of Plates: Sample Capacity: Continuous Sample Loading: Sample Tube Size: 4 96 (98 positions available) Yes 10 mm – 16 mm diameter 40 mm – 100 mm height

41 tips

Number of Reagents: Number of Standard/Control Bottles: Assays per Plate: Dilution Wells Capacity: Sample Tip Capacity: Reagent Tip Capacity: Up to 24 (25 mL tubes) 33 (1.5 mL vials) 1 assay per strip or up to 12 assays per plate Up to 192 deep-well strips (24 x 8) 432 (4 x 108)

Reader Specifications

Photometric Range: Spectral Range: Filter Slots: Precision: 0.000 - 3.000 0D 405 nm - 690 nm 6 wavelength ± 0.010 0D at 0.000 - 0.500 0D < 1% CV at 0.501 - 2.000 0D < 1.5% at 2.001 - 2.500 0D ± 0.01 0D or 2.5% (0.000 - 3.000 0D) whichever is greater < 10 seconds, single wavelength < 20 seconds, dual wavelength

Accuracy: Read Time:

Washer Specifications

Manifold Configuration: Programmable Volumes: Wash Buffer Capacity: Residual Wash Volume: 8-way 50 μ L - 999 μ L 4 wash bottles at 2.0 L, with level-sensing < 3 μ L per well with dual-axis sweep in a flat-bottom plate \leq 5% CV (with 300 μ L in a 96 well plate) 8 L with waste full sensor

Dispense Precision: Waste Container:

Incubator Specifications

Number of Incubators: Temperature Range:

Temperature Accuracy: Shaking: Temperature Monitoring: Up to 4 RT + 7° C to 50° C (elevated incubator) RT + 5° C (ambient incubator) \pm 1° C > 15 Hz periodic or continuous Yes

Reagent Pipetting Specifications

Reagent Tip Size:1,300Reagent Pipetting Volume: $25 \ \mu l$ Reagent Pipetting Precision: $\leq 3\%$ operation: $\leq 2\% \mu l$ Reagent Pipetting Accuracy: $\pm 2\%$ in op

Sample Pipetting Specifications

Sample Tip Size: 300 µL $10 \,\mu\text{L} - 250 \,\mu\text{L}$ single-shot Sample Pipetting Volume: $25 \,\mu\text{L} - 100 \,\mu\text{L}$ multi-shot \leq 3% CV at any operating volume above Sample Pipetting Precision: 10 uL (single-shot mode) \pm 2% of target volume at any operating Sample Pipetting Accuracy: volume above 10 µL (single-shot mode) Estimated Cycle Time for Sample < 8 seconds \land Pickup to Delivery on Plate: Time to Dispense: 19 minutes (typical) ^

Sampling Time w/Dilutions: Dilution Range:

Process Security

Liquid Level Sensing: Level Sensor System: Clot Detection: Dispense Anomaly Detection: Tip Detection: Electronic Signature Pipetting: Alarms:

Software

Controlling Software:REVELWork Protocols (Assays):UnlimData Processing:QuantLevey-Jennings:YesWestgard Rules:YesProcess Reporting:EventAutomatic Error Recovery:YesPassword Access Control:Yes

REVELATION DSX[®] Unlimited Quantitative and qualitative Yes Yes Event log + error log Yes Yes

Attributes and specifications subject to change without notice.



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 $\begin{array}{l} 1,300 \ \mu L \\ 25 \ \mu L - 1,000 \ \mu L \\ \leq 3\% \ CV \ at \ 10 \ shots \ at \ any \ volume \ in \\ operating \ range \ above \ 50 \ \mu L \\ \pm \ 2\% \ of \ target \ volume \ at \ 50 \ \mu L \ or \ greater \\ in \ operating \ range \ (single-shot \ mode) \end{array}$

50 µL of 96 samples to plate from sample

tubes or deep-well plates

< 26 minutes (typical) \land

Pressure differential

Yes

Yes

Yes

Yes

Yes

1 part in 190 one-stage dilution

1 part in 36,100 two-stage dilution

Yes (reagents, controls and samples)