



 **DYNEX**  
TECHNOLOGIES

**AGILITY**®  
Redefining ELISA.

DYNEX Agility® Integra



## DYNEX Agility® Integra

The Agility Integra software provides new features to ensure compliance with the 21 CFR Part 11 regulation. The open, fully automated system can now run in locked kiosk-mode with restricted access that requires user log in credentials. Assay result reports can be verified with digital fingerprints. Added security and data encryption also provide another layer of protection for assays, results and logs.

### Redefining **Automation**

The DYNEX Agility® Integra utilises the proven versatility of ELISA's core technology in a powerful, fully automated platform, for true ELISA optimisation. State-of-the-art robotic processing delivers unparalleled precision while eliminating nearly all manual steps, so Agility® Integra is efficient and reliable – freeing you and your staff to be as productive as possible, while significantly reducing your cost per test.

- Full, walkaway processing from the beginning of testing
- Up to 16 SmartKit® carriers stored on-board for simultaneous runs
- Flexible throughput allows up to 12 plates on-board at once
- Utilises three precision robotic arms - one for sample pipetting, one for reagent pipetting and another for transporting plates and consumables, to obtain maximum process efficiency

### Value for Your **Investment**

With an intelligent design that emphasises simplicity, Agility® Integra provides an extremely intuitive, easy-to-use interface. With continuous sample loading, workflow is streamlined for maximum efficiency and productivity.

- Eliminates most of ELISA's labour-intensive, front-end setup
- Reduces hands-on time by two-thirds of typical open systems
- Barcoding eliminates manual data input
- Assesses testing requirements and develops an efficient work list
- Comprehensive LIMS integration
- Continuous sample loading allows operators to begin loading and running microplates as they are ready, rather than all at once



## Redefining Hands-On-Time

Agility® Integra's streamlined front-end preparation minimises hands-on reagent loading versus traditional open systems, significantly reducing overall assay times.

**Walkaway, right away.**

## Increase Productivity



**Agility® Integra**  
**12:55 minutes**

1	Scan Sample Barcodes	03:00
2	Edit Worklist	00:10
3	Enter Lot-Specific Data	00:00
4	Load Microplates	02:00
5	Load Reagents	02:15
6	Load Wash Fluids	03:00
7	Load Dilution Tubes	00:15
8	Load Sample Tips	00:45
9	Load Reagent Tips	00:30
10	Empty Waste Bottle	01:00



**Traditional Open Systems**  
**36:45 minutes**

1	Scan Sample Barcodes	03:00
2	Edit Worklist	01:00
3	Enter Lot-Specific Data	02:00
4	Load Microplates	02:00
5	Load Reagents	22:30
6	Load Wash Fluids	03:00
7	Load Dilution Tubes	01:00
8	Load Sample Tips	00:45
9	Load Reagent Tips	00:30
10	Empty Waste Bottle	01:00

## Increase **Confidence**

The intuitive design of the Agility® Integra minimises the potential for human error and greatly reduces the need for on-the-job training.

The user interface enables effortless navigation, and the system supports several major error-proofing advances, including a comprehensive monitoring system to measure consumable levels and extensive barcoding to eliminate manual data entry.



## Redefining **Reagent Loading**

Agility® Integra requires the least hands-on time in its category. In part, this advantage is made possible by utilising the SmartKit® packaging format, an innovative new direct-load solution to front-end ELISA kit preparation.

SmartKits® are a packaging enhancement, allowing everything to be loaded onto the system at the same time, in one easy step. All consumables for each assay are either loaded into a SmartKit® carrier by the end-user or prepackaged in SmartKit® format when purchased from our growing list of major reagent partners.

- Eliminates nearly all manual liquid-transfer steps
- Frees up significant labour time and allows for multitasking
- Illuminated, colour-coded access positions allow simple loading of all kits, tips, microplates and other consumable items, preventing loading errors
- 2D barcodes printed on kits provide accurate and secure information
- Inventory tracking allows for maximum materials efficiency
- Consumables are stored on-board, including up to 16 SmartKits®







## System and Software Overview

### SYSTEM FEATURES

- High-volume, walk-away processing allows for simultaneous runs of multiple assays
- Faster automation with 3 robotic arms and continuous loading for up to 200 samples
- Reduced hands-on time up to 60% and increased ELISA testing capacity
- Automated result calculations for complex assays
- 2D barcode scanning for improved sample and reagent tracking
- Trusted, accurate and timely results
- Compatible with DYNEX SmartKits® to minimise manual liquid transfers and save on cost for consumables

### SOFTWARE ENHANCEMENTS

- Kiosk-Mode System (locked) for FDA 21 CFR Part 11 compliance
- Restricted access; login credentials required
- Improved audit trail by managing different user access levels
- Integrated Co-Connect for better LIS connectivity and data re-transmission
- Improved import and export functionality
- Networking capabilities to secure, access-controlled network/USB drive and folder locations
- Ability to print to any network printer via intuitive user interface
- Digital fingerprint on results report to verify data integrity
- Information on logs, self tests and system de-bug package
- Enhanced data encryption features to protect assays, results and logs
- Windows IT security updates and anti-virus protection based on lab requirements

### LAB BENEFITS

- Improved data confidentiality, integrity and accessibility
- Better accountability and traceability of users running the system
- Improved user experience for high-volume labs managing a large amount of data and reporting
- Reduced errors and improved workflows with data transmission
- Improved functionality when mapping data and files to specific networks and folders
- Optimised reporting based on information requested and ability to save reports in unique, designated locations
- Ability to protect the assays being run and results generated and prevent databases from being deleted
- Improved IT security to prevent hacking and malware intrusions
- Access to technical service and support to troubleshoot issues

## About DYNEX Technologies

The DYNEX product line, including the DSX® and DS2® instrument systems, has a proven track record of quality, innovation and reliability as a worldwide leader in fully automated systems and consumables.

## Agility® Integra Specifications

Dimensions	Metric	Non Metric
Width:	<1250 mm	50"
Depth:	<900 mm	36"
Height:	<1230 mm	49"
Footprint:	<1200 x 650 mm	48" x 26"
Bench Weight:	213 kg (max.)	469 lbs (max.)
Ship Weight:	296 kg (max.)	650 lbs (max.)
Noise:	Noise output <80 dB	

## Power Requirements

Voltage:	100 – 240V automatic switching
Frequency:	50/60 Hz
Power Consumption:	Typically 400 VA (online UPS required)

## Reader Specifications

Photometric Range:	0.000 to 3.500 OD
Spectral Range:	405 nm to 690 nm
Precision:	±0.010 OD at 0.000 to 0.500 OD <1% CV at 0.501 to 2.000 OD <1.5% CV at 2.001 to 2.500 OD
Accuracy:	±0.01 or 2.5% (0.000 to 3.000 OD) whichever is greater
Read Time:	<30 seconds, single wavelength <50 seconds, dual wavelength

## Washer Specifications

Manifold Configuration:	8-way wash head
Programmable Volumes:	50-999 µl
Wash Containers:	4 wash bottles at 3.0 L, with quantitative level sensing
Clean Container:	1 wash bottle at 3.0 L, with quantitative level sensing
Waste Container:	10L with quantitative level sensing
Residual Wash Volume:	<3 µl per well with dual-axis sweep in a at bottom well
Dispense Precision:	5% CV (with 300 µl in a 96 well plate)

## Incubator Specifications

Number of Incubators:	12 (6 Ambient / 6 Elevated)
Temperature Range:	RT + 4° C to 45° C (Elevated Incubator) RT + 4° C (Ambient Incubator)
Temperature Accuracy:	± 1° C
Shaking:	14 Hz periodic or continuous

## System Specifications

Number of Plates:	12 (6 Ambient / 6 Elevated)
Number of Sample Tubes:	200 (additional continuous load capability)
Number of Reagents:	Up to 16 different SmartKit™ Reagent Packs simultaneously (additional packs can be added using continuous load capability)
Number of Pipettes:	2 (sample + reagent)

## Sample Pipetting Specifications

Sample Tip Size:	300 µl
Sample Pipetting Volume:	10-300 µl
Time to Dispense:	11 minutes (typical) 50 µl of 96 samples to plate from sample tubes or deep well plates
Sample Pipetting Precision:	3% CV (at any operating volume above 10 µl)
Sample Pipetting Accuracy:	± 2% of target volume
Dilution Range:	1 part in 199 one-stage dilution, 1 part in 39,601 two-stage dilution
Number of Sample Tips:	20 racks of 112 tips (additional racks can be added using continuous load capability)
Sample Tube Dimensions:	10-17 mm diameter external dimension, 45-100 mm depth

## Reagent Pipetting Specifications

Reagent Tip Size:	1200 µl
Reagent Pipetting Volume:	20-1200 µl
Number of Reagent Tips:	1 rack of 98 tips (additional racks can be added using continuous load capability)
Reagent Pipetting Precision:	3% CV at 10 shots at any volume in operating range
Reagent Pipetting Accuracy:	±2% of target volume (single shot mode)

## Regulatory Compliance

Electromagnetic Perturbation:	EMC Directive 2004/108/EC: EN 61326-2-6:2006, IEC 61326-1:2006
Electrical Safety:	BS EN 61010-1:2001, IEC 61010-1:2001, IEC 61010-2-101, ETL marked
Lead-free:	All components are RoHS compliant
IVDD:	CE marked per IVD 98/79/EC Directive

All attributes and specifications presented herein are subject to change without notice. Agility® Integra is a registered trademark of Dynex Technologies and SmartKit® is a registered trademark of Dynex Technologies. Agility® Integra is a general purpose microplate processor. It is the customer's sole responsibility to determine the Agility® Integra 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 Agility® Integra for any specific application, including clinical application, or for the use of the Agility® system with any reagents, assays, or other products.





# WolfLabs

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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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