

Utility

ESSENTIAL LAB EQUIPMENT

SIMPLY
ADEPT



HighRes[®]
biosolutions

Engineered for Automation Excellence

Enhance high-performance in your automated workflow with essential lab equipment from HighRes Biosolutions. Each device is designed to excel in a hands-free robotic environment, with fine details that reflect advanced and purpose-driven craftsmanship.

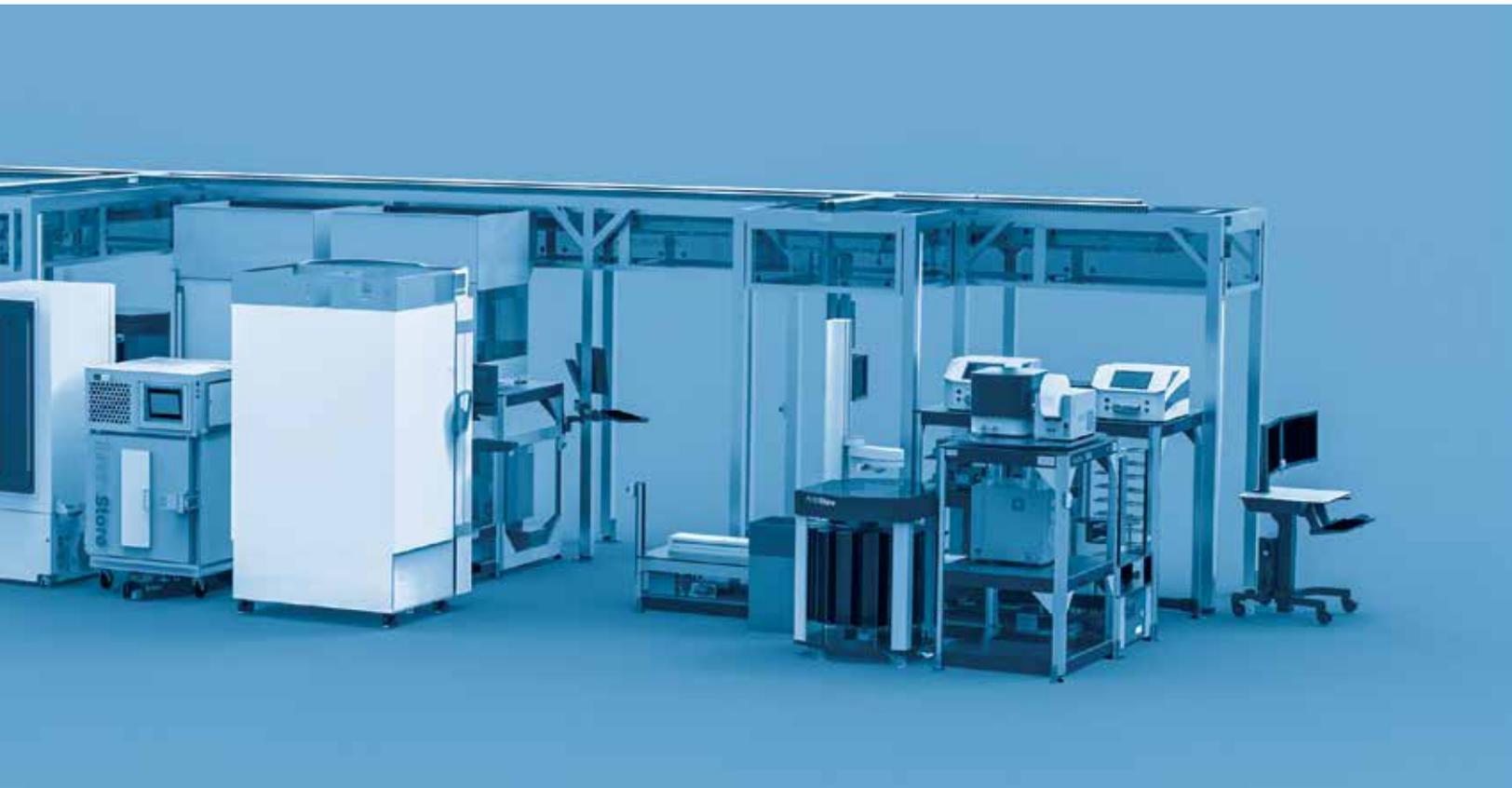
Add these small but prominent technologies to a Nucleus® automation infrastructure or other robotic system. Alternatively, integrate them into your Prime® automated liquid handler-based workflow or third-party liquid handler to stand out from your competitors.



MicroSpin™
Automated
Centrifuge



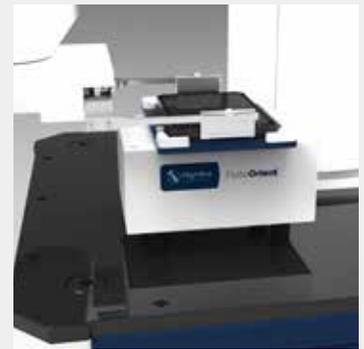
PlateWeigh™
Precision
Automated Scale



LidValet™
High-Speed Lidding
& Delidding Device



LidDiscard™
High-Speed
Delid-to-Waste Device



PlateOrient™
Labware Orientation
Device

MicroSpin™

Automated Centrifuge



Adaptive Accommodations

Consumables such as microplates, deep-well plates, stacked plates, filtration assemblies, and even tubes and vials in ANSI/SLAS compliant racks are ideal for use with the MicroSpin.



Balanced from Within

The MicroSpin provides significant imbalance tolerance for tasks such as centrifuging a single microplate. In fact, MicroSpin's powerful rotors steadfastly perform even with a rotor imbalance of up to 75 grams.



All-Encompassing Access

A patent-pending easy-access door design facilitates direct robotic plate loading from the top or side of the plate nest. This innovative design is ideal for use with SCARA or articulated robots, top load arms, and any other robot design.

Key MicroSpin Features to Match Your Needs

- Compatible with most ANSI/SLAS compliant microplates and racks
- Rapid plate presentation, loading, and ramping speeds to maximize time saving
- Capacity of up to two plates or racks at once
- FlexCart™ and MicroDock™ compatible for Nucleus automation infrastructure integration
- May be integrated into automated work cells or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with CellarioScheduler™ software and third-party schedulers
- White Glove QC inspection prior to shipment

SPECIFICATIONS	
Maximum Speed	3000 × g
Capacity	2 microplates or ANSI/SLAS compliant labware
Maximum Consumable Height	65 mm
Dimensions (H x W x L)	381 x 406 x 406 mm (15 x 16 x 16 in)
Weight (empty)	43 kg (94 lb)
Power	120/240 VAC 50/60 Hz
Communications	Ethernet

Contact sales@highresbio.com

or your local HighRes Biosolutions automation specialist
for more information or to schedule a first-class demonstration.

PlateWeigh™

Precision Automated Scale



Positively Confident

The PlateWeigh ensures that your liquid handling steps are accurate and precise. This laboratory scale with readability of one milligram is ideal to verify performance when changing liquids, characterizing a new liquid class, or inspecting a sample collection as part of a quality control process.



Details Matter

Once a microplate is placed into the PlateWeigh, its door automatically closes. This protects the sensitive weigh cell from any outside interferences and facilitates rapid re-equilibration for high-quality results time and time again.



Simplicity Abounds

With a measurement time of less than one second, PlateWeigh is an excellent quality indicator in any automated process. A single, precise result is output to confirm the strength of your liquid handler's performance.

Key PlateWeigh Features to Match Your Needs

- Fully enclosed automated weighing chamber
- Excellent weighing accuracy/precision
- Compatible with most ANSI/SLAS compliant microplates
- FlexCart and MicroDock compatible for Nucleus automation infrastructure integration
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with CellarioScheduler software and third-party schedulers
- White Glove QC inspection prior to shipment

SPECIFICATIONS	
Maximum Load	Up to 520 g
Measurement Time	0.6 sec
Weighing Precision	±1 mg
Dimensions (H x W x L)	251 x 235 x 282 mm (10 x 9 x 11 in)
Weight	8.5 kg (19 lb)
Power	120/240 VAC 50/60 Hz
Communications	Ethernet

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LidValet™

High-Speed Lidding & Delidding Device



Hats Off to Versatility

Discover how LidValet can add a new dimension of efficiency to your automated workflows. Using LidValet, microplate lids are rapidly removed, held, and replaced as needed while the microplate progresses through the workflow. Lid placement mechanics are based on the Venturi effect. This highly consistent, pneumatically generated suction eliminates the need for house vacuum with variable performance and risks of cracked, dropped, or stuck lids. Configure LidValet as a single or stacked unit depending on desired plate capacity.



Refined Time Savings

LidValet is faster than direct lid manipulation using robotic arms so you can accomplish more ultra-high sample processing throughput in less time.



Expand What's Possible

Take advantage of LidValet as a standalone device or as an integral part of a Nucleus automated infrastructure or other automated system. When integrated with Cellario software, LidValet locations are automatically fully managed.

Key LidValet Features to Match Your Needs

- Available in two-, four-, six-, and eight-nest capacities
- Portrait or landscape presentation
- Works with most ANSI/SLAS-compliant lidded microplates including those with metal gasket lids
- MicroCart and MicroDock compatible for Nucleus automation infrastructure compatible
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software
- White Glove QC inspection prior to shipment

LidDiscard™

High-Speed Delid-to-Waste Device



Parting with Style

Savor increased workflow efficiencies and reliability with LidDiscard. This high-speed device rapidly removes microplate lids, including metal lids, and moves the lids to a waste receptacle. Lid removal mechanics are based on the Venturi effect. This highly consistent, pneumatically generated suction eliminates the need for house vacuum with variable performance and risks of cracked, dropped, or stuck lids.



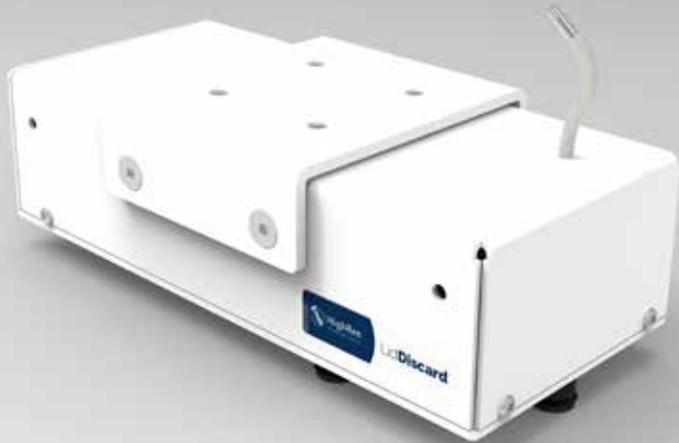
Gaining Speed and Reliability

LidDiscard is faster than direct lid manipulation using robotic arms so you can accomplish more ultra-high sample processing throughput in less time.



Utility Abounds

LidDiscard is ideal for use in a Nucleus automated infrastructure or alongside a Prime automated liquid handler. This useful device is easily scheduled through Cellario software.

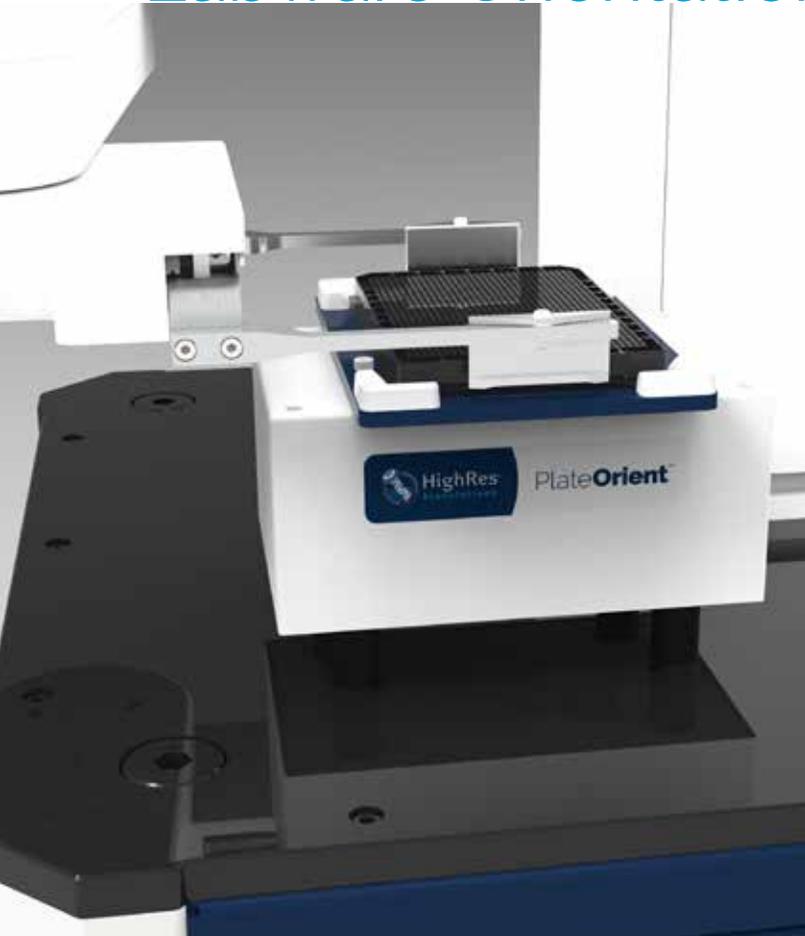


Key LidDiscard Features to Match Your Needs

- Works with most ANSI/SLAS-compliant lidded microplates including those with metal gasket lids
- MicroCart and MicroDock compatible for Nucleus automation infrastructure compatible
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software
- White Glove QC inspection prior to shipment

PlateOrient[™]

Labware Orientation Device



Key PlateOrient Features to Match Your Needs

- Works with most ANSI/SLAS-compliant labware
- MicroCart and MicroDock compatible for Nucleus automation infrastructure integration
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software
- White Glove QC inspection prior to shipment



Simply Seamless Enablement

Keep your process on track with PlateOrient. This automated labware orientation device rotates labware into the specified landscape or portrait position for use in a given automated tool. PlateOrient is compatible with a wide variety of ANSI/SLAS-compliant labware including microplates, deep-well plates and tube racks.



Every Second Counts

PlateOrient is faster than labware rotations using robotic arms so you can reduce valuable time throughout the workflow.



Efficiency en Masse

PlateOrient is included in each Nucleus automation infrastructure system arm-mounted base. Additional PlateOrient devices may be easily added in the system to further maximize efficiencies. When co-located with a barcode scanner, labware is quickly and reliably identified from either orientation.

Our People Help You Grow



Professional Services

The all-encompassing Nucleus experience extends beyond hardware and software. HighRes specialists around the world provide services so splendid and detail-focused that they rival that of the concierge service in the finest establishments.



Peak Performance

Push past your competition! After the one-year warranty, continue to perform at the top of your game through results-driven service contracts.



One Call For All

With complete integration of HighRes devices to Cellario, you don't have to manage multiple contracts. Instead, one phone call to our support engineers is all you need.

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