Labware Governance

AUTHENTICALLY SYNERGISTIC
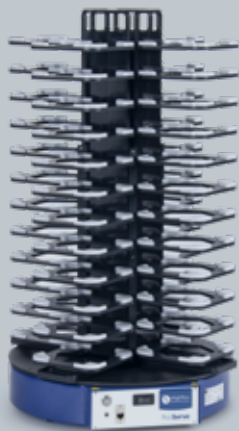
HighRes®
biosolutions

Seamlessly **Interacting**

Place and Dispose

Lid**Valet**™

Lid**Discard**™

Orient

Plate**Orient**™

Deliver

Pico**Serve**™

Nano**Serve**™

Micro**Serve**™

Plate Hotels

Respectively Refined for United Utility

Automated labware management devices from HighRes® Biosolutions are crafted specifically for those with a rich appreciation for ultra-smooth workflow efficiency.

Each device performs at the top of its category and delivers striking performance continuity whether it's integrated within a Nucleus® automation infrastructure or other robotic system or used as a stand-alone device in concert with the Prime® automated liquid handler or third-party liquid handler.

- PicoServe Benchtop Labware Handler
- NanoServe Serial Access Labware Handler
- MicroServe High-Density Serial Access Labware Handler

- Stationary Plate Hotels
- LidValet High-Speed Lidding & Delidding Device
- LidDiscard High-Speed Delid to Waste Device
- PlateOrient Labware Orientation Device

Integrate one or more devices to achieve your version of perfect workflow synergy.

Pico**Serve**™
Benchtop Labware Handler

Compact Yet Agile

PicoServe is our smallest automated microplate and tip box delivery system. As an ideal accompaniment for small daily sample throughput processing ranges, PicoServe fits comfortably onto a benchtop or Nucleus work surface.

Simple Loading

Any combination of up to four random-access hotels may be easily loaded and removed from the PicoServe.

Key PicoServe Features to Match Your Needs

- Configurable for up to 48 plates in four random-access hotels

- Works with most ANSI/SLAS-compliant labware

- Compatible with the complete range of Nucleus automation infrastructural components, including FlexCart™

- May be integrated into robotic systems or used as a stand-alone device

- Convenient Ethernet communications

- Integrates with Cellario™ software and third-party schedulers

- Portrait or landscape presentation

- White Glove QC inspection prior to shipment

Nano**Serve**™
Serial Access Labware Handler

Sleek Spaciousness

NanoServe is an automated and sequential microplate and tip box delivery system. As it stores and rapidly delivers hundreds of microplates and dozens of tip boxes in just over two feet of lab space, NanoServe is perfectly tailored to medium daily sample throughput processing needs.

Effortless Loading

Up to four bulk stackers may be easily loaded and removed from the NanoServe. For added convenience, the stackers are interchangeable with those used on the MicroServe.

Impressive Interface

The NanoServe graphical interface offers point-and-click convenience for users of any skill level. Setup, teaching, and operation follow intuitive logic, and networking with Nucleus and Cellario intensifies the beneficial and reliable experience.

Key NanoServe Features to Match Your Needs

- Configurable for up to 320 plates or 44 tip boxes in four bulk stackers
- Works with most ANSI/SLAS-compliant labware
- Compatible with the complete range of Nucleus automation infrastructural components, including FlexCart
- May be integrated into robotic systems or used as a stand-alone device

- Convenient Ethernet communications
- Integrates with Cellario software and third-party schedulers
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment

Micro**Serve**™ High-Density Serial Access Labware Handler

Luxuriously Expansive

MicroServe is our highest-density automated sequential microplate and tip box delivery system. In under nine square feet of lab space, MicroServe stores and rapidly delivers up to a whopping 770 microplates or 154 tip boxes. This capacity and its high delivery speed makes MicroServe the best in its class, and a must-have for ultra-high throughput labs.

Bonus Barcode Scanning

Save even more precious time by incorporating rapid, automated barcode scanning of plate inventory.

Facile Loading

Up to fourteen bulk stackers may be easily loaded and removed from the MicroServe. For added convenience, the stackers are interchangeable with those used on the NanoServe.

Communications are a Cinch

The MicroServe graphical interface offers point-and-click convenience for users of any skill level. Setup, teaching, and operation follow intuitive logic, and networking with Nucleus and Cellario intensifies the beneficial and reliable experience.

Key MicroServe Features to Match Your Needs

- Configurable for up to 770 plates or 154 tip boxes in fourteen bulk stackers
- Rapid barcode scanning of inventory
- Works with most ANSI/SLAS-compliant labware
- MicroCart and MicroDock compatible for Nucleus automation infrastructure compatible
- Ready for liquid handler integration

- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment

Stationary Plate Hotels

Landscape and Portrait Flexibility

Uniquely square plate nests enable a choice of landscape or portrait orientation so the robot can simply grab-and-go. This saves time, reduces workflow bottlenecks, and improves overall laboratory efficiency.

Park Position Convenience

Add HighRes Plate Hotels as a convenient intermediary random-access hold position between active process tools. This prevents time-consuming errors and deadlock in devices that are in use.

Rapid Labware Transfers

Avoid manual transfers and errors that consume precious time. HighRes Plate Hotels facilitate plate transfers in a smooth and timely manner.

Plate Hotel Features

- Portrait or landscape orientation
- Standard pitch offers 8 nest positions with a maximum plate height of 57 mm (6-pitch and 12-pitch models are also available)

- Low density pitch offers 4 nest positions with a maximum plate height of 114 mm
- Works with most ANSI/SLAS-compliant labware
- White Glove QC inspection prior to shipment

Labware Management, **Your Way**

	PicoServe	NanoServe	MicroServe
LABWARE CAPACITY			
Hotels/ Stackers	4 slots	4 slots	14 slots
1536-well plates	Random access hotels: 48	320	1120
96-/384-well plates	Random access hotels: 48	220	770
Deepwell plates/ tip boxes	Random access hotels: 24	44	154
GENERAL SPECIFICATIONS			
Dimensions (H x W x L)	787 x 495 x 495 mm (31 x 20 x 20 in)	914 x 635 x 533 mm (36 x 25 x 21 in)	889 x 787 x 889 mm (35 x 31 x 35 in)
Weight (empty)	17 kg (38 lb)	46 kg (101 lb)	61 kg (135 lb)
Power	100/240VAC 50/60 Hz	100/240VAC 50/60 Hz	120/240VAC 50/60 Hz
Communications	Ethernet	Ethernet	Ethernet

Contact sales@highresbio.com

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

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

Lid**Discard**™ 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.
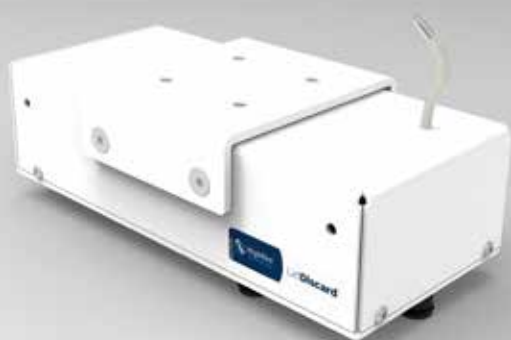
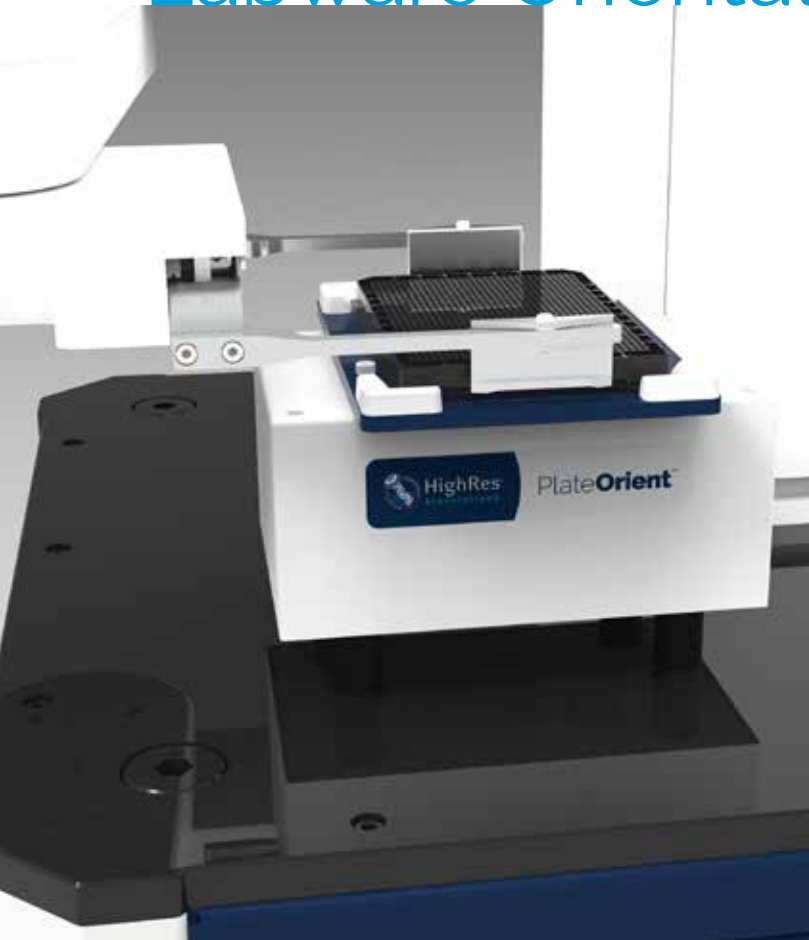## Key LidDiscard Features to Match Your Needs

- 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
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Plate**Orient**™
Labware Orientation Device

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.

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

Our People
Help You Grow

Peopleware everywhere

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.

Contact sales@highresbio.com

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

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