

Prime[®]

AUTOMATED LIQUID HANDLING

RELENTLESSLY
DIFFERENT

 HighRes[®]
biosolutions



HighRes[®]
biosolutions

You Need a Different Perspective

Embrace our unique perspective
to support your competitive edge.

We've worked closely with just about every
liquid handling technology on the market.

We know the fine details about what does and
doesn't work when moving liquids and labware.

OUR PERSPECTIVE
TRANSFORMS YOUR **OUTCOME**

YOUR OUTCOME UNLOCKS
NEW DISCOVERIES

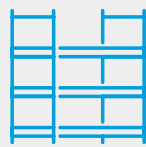
NEW DISCOVERIES
CHANGE THE WORLD

Experience the Prime Difference

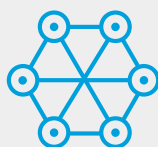
Prime is beyond a mere automated liquid handler. It's an entirely new and fully integrated approach to lab automation. Prime unites powerful technologies and features to propel your next scientific breakthrough:



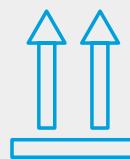
**LIQUID
HANDLING
AUTOMATION**



**LABWARE
MANAGEMENT**



**DEVICE AND
INFORMATICS
INTEGRATION**



**SPACE-SAVING
VERTICAL
ORIENTATION**



**SCALABLE
AND MOBILE
ARCHITECTURE**

The distinctly purpose-built Prime is your lab's high performer whether it's operated as a standalone workstation or integrated into a fully walkaway system.

Contact sales@highresbio.com
or your local HighRes Biosolutions automation specialist
for more information or to schedule a first-class demonstration.

The Prime Difference

Software

Focus on your science, not programming

Prime Your Lab for the Future

Labware Management

Make it truly your own

Deck Space

Automation is bounded by your scientific curiosity, not deck size

Service

Personalized white glove treatment, without delay

Prime Your Lab for Today

Pipetting

Performance that matters, especially in 1536-well plates

The Prime Differences in Deck Space



Unparalleled Adaptability

Prime adapts without delay to your ever-evolving research. Configure and scale Prime to maximize productivity. Personalize the deck with accessories that suit your specific needs. Quickly swap out pipetting heads on the fly to expand assay versatility. Easily upgrade standalone units at any time for use in a larger integrated system.

Conserved Lab Space

With ultra-compact vertical orientation, half the valuable lab floor footprint is occupied compared to other automated liquid handlers. Need to relocate or add Prime to an integrated Work Cell? No problem as Prime is fully mobile.

Intense Productivity

Capitalize on fixed and dynamic trays to add an almost infinite number of tools and consumables to your workflows without taking up horizontal lab space. Quickly change tray contents on the fly as your workflow requirements evolve.



Exchangeable Pipette Heads

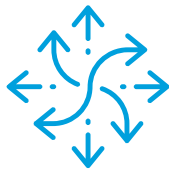
Gantry with Gripper Fingers
for on-deck transport

Dynamic Labware Trays

Collaborative Robotic Arm
for on- and off-deck transport



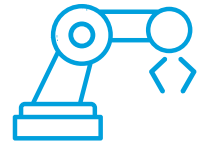
TIME SAVING



VERSATILE



**CONFIGURABLE
& UPGRADABLE**



**COLLABORATIVE
ROBOT TRANSPORT**

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The Prime Differences in Pipetting

Powerhouse Pipetting

Speed things up around the clock with parallel processing. A built-in collaborative robot, gantry with gripper fingers, and a dynamic deck allow time-saving continuous pipetting. Gain confidence during cherry or hit picking with a full audit trail.



Vast Plate Density Functionality

Multiple pipetting heads yield precise, accurate performance across a wide plate density range. Quickly change out the heads with ease. Rapidly compress or expand between plate types or replicates within a single plate density.

96 Multi-Channel

384 Multi-Channel

Independent Z-8 Channel

1536 Pin Tool

1536 Reasons

Prime slots perfectly into production workflows with 1536-well pipetting. No more clipping of pipette tips against plate wells, just repeatable performance time and time again.



Peak Tip Versatility

Tip Type	Sterile Option	Filter Tip Option	Wide Bore Option	Format Options	Compatibility
30 uL	●	●		g6 & 384	384_70 MC Head; iZ8_70 Head
70 uL	●	●		g6 & 384	384_70 MC Head; iZ8_70 Head
220 uL	●	●	●	24 & g6	g6_220 MC Head; iZ8_220 Head
1000 uL	●	●	●	24 & g6	g6_1000 MC Head; iZ8_1000 Head

Contact us today to request precision data.



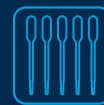
TIME SAVING



VERSATILE



CONFIGURABLE
& UPGRADABLE



BATCH & PARALLEL
PROCESSING



COLLABORATIVE
ROBOT TRANSPORT



DYNAMIC TRAY
LOADING
& PIPETTING

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The Prime Differences in Labware Management



Labware Management

Maximize convenience and walkaway time with the high capacity, underdeck-mounted carousel; with storage space for up to 580 plates, random and non-random access, and barcode scanning.

All Access Pass

Expand the limits of what's possible with 360 degrees of access to the Prime deck and labware management carousel. Every pipetting head accesses every deck position, and an onboard collaborative robot can simultaneously serve off-deck devices and storage.

Safety First

Keep users safe and productive. Prime's operation is paused when Prime's front and side gantry/pipettor doors are opened. The lower door opening pauses the carousel and on- and off-deck robotic arm operation. Collaborative robotic arm movement stops when the light curtain is broken.

Conserved Lab Space
Ultra-compact vertical orientation

Intense Productivity

Waste
Below and off-deck options available

HEPA Filtration (Optional)

Unparalleled Versatility
Dynamic deck & pipetting heads adapt on the fly and reach every position

High-Capacity Labware Management
Maximizes walk-away time

Fully Mobile
Use as a standalone or docked to form a fully-integrated system



**TIME
SAVING**



VERSATILE



**CONFIGURABLE
& UPGRADABLE**



**COLLABORATIVE
ROBOT
TRANSPORT**



**DYNAMIC TRAY
LOADING &
PIPETTING**

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The Prime Differences in **Software**



At Your Command

You don't need to be fluent in computer programming or engineering. Prime Solution® software and its graphic user interface are designed around common sense and the scientific process. This means that advanced users and novices alike can easily develop, edit, simulate, and implement workflows with simple, intuitive drag-and-drop input.



Visualization

The dashboard of Solution provides real-time information so you can visually track progress. The dashboard may also be used to start, stop, or pause operations.



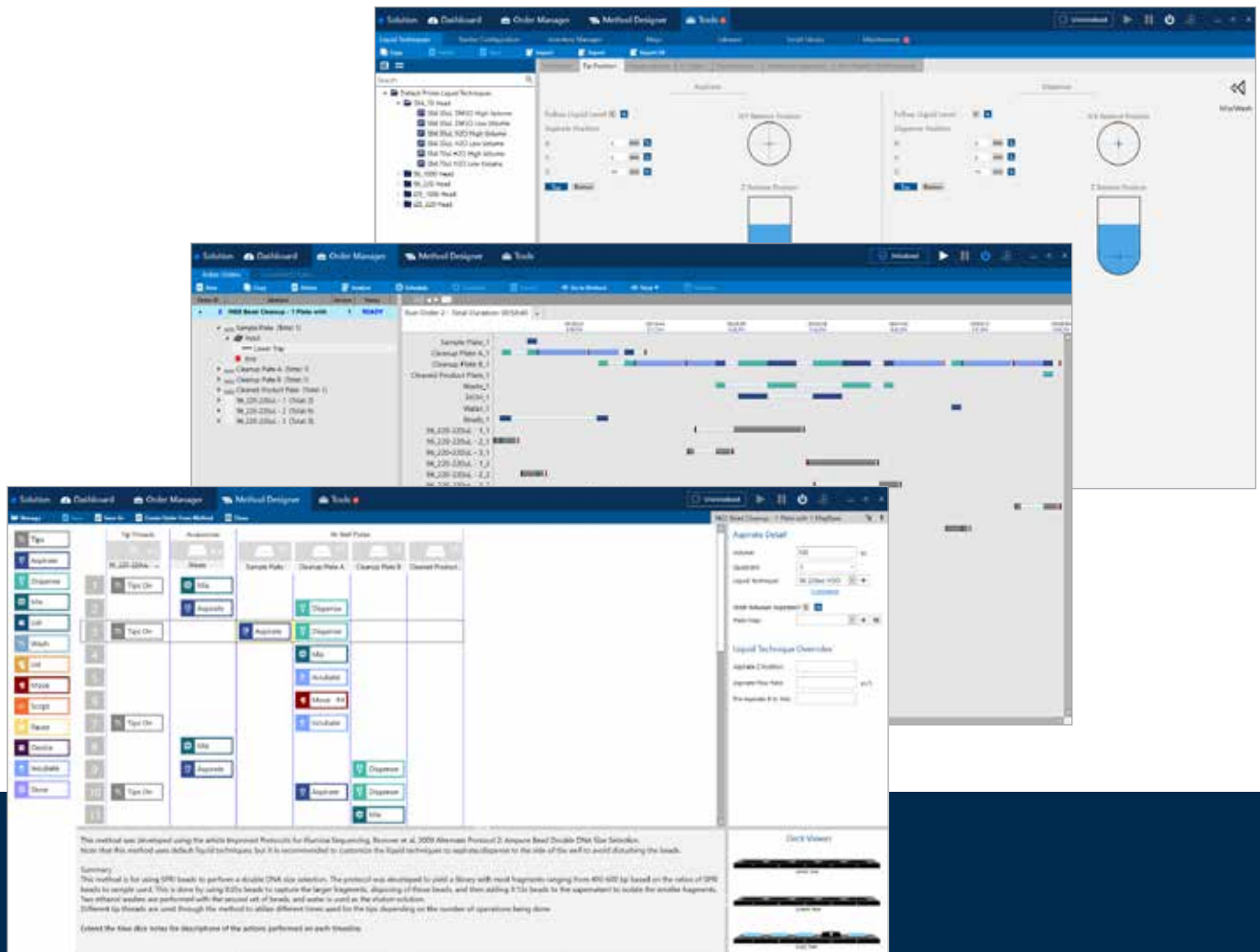
Batch Scheduling

Use Order Manager to easily schedule batch runs upon completion of a prior run or at a future time. This tab includes a simple Gantt chart to display estimated run times and sample process uniformity.



Cellario

Solution software intuitively integrates with Cellario™ software to organize, schedule, and control your multi-device automated ecosystem regardless of device manufacturer or assay format.



INTUITIVE



VERSATILE



REAL-TIME
VISUALIZATION



FULLY
INTEGRABLE

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The Prime Differences in Accessories



Configure Your Experience

Build a top-performing automated liquid handling solution to your exact specifications.



HighRes Biosolutions Devices

Multiple waste options
Manual/Autofill Reservoirs (including high/low volumes and temperature control)
Wash Baths for tip washing or waste disposal
Pump Stir Plate (and associated accessories)
And More



Third-Party Vendor Devices

Options are almost endless; contact us with your questions about specific products



Overflow Wash Station



Internal Waste



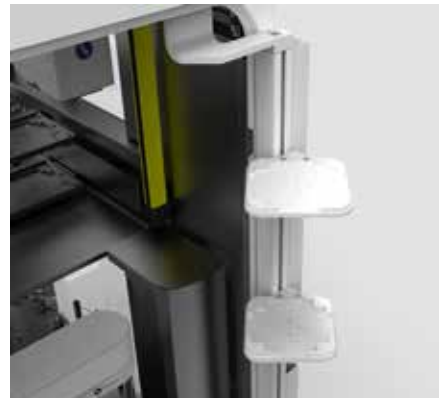
Chimney Wash



Tall Riser Plate



Pump Stir Plate



Hand-Over Nest

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The Prime Differences in **Service**



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.



Preventative Maintenance

With a Prime service contract, our service engineers will swap out your existing pipette head with a replacement to minimize downtime. Convenience also extends to customers who need to retain their original pipette head. Here, we will install your purchased spare head, perform maintenance on the original pipetting head, and ship it back to you.



Confidence from Day One

Prime automated liquid handlers come with a one-year warranty (excludes pipette head preventative maintenance) and endless responsiveness.



One Call For All

With complete integration of Prime to larger HighRes systems including Cellario, you don't have to manage multiple contracts. As a member of the HighRes Support Community, you can file and manage support tickets in real time on your Prime or you can do it at your convenience, using any web-enabled device.

Specifications and Configurations

Length	130.0 cm without Bubble Door 153.0 cm with Bubble Door	
Width	84.0 cm	
Height	198.0 cm	
Pipetting Head Options	iZ8 Channel x 30 uL or 70 uL Tips iZ8 Channel x 220 uL Tips iZ8 Channel x 1000 uL Tips g6 Well x 220 uL Tips	g6 Well x 1000 uL Tips 384 Well x 30 uL or 70 uL Tips 1536 Well Pin Tool
On-Deck SBS Labware Nest Positions	15 (5 on each of three trays)	
Internal Panel Connectivity	10 USB Ports 6 Pump Connections	6 Bath Connections 2 Leak Detection Connections
External Panel Connectivity	6 Electrical Power Outlets	
Robotic Arm Reach	114.5 cm	
Robotic Arm Z-Axis Travel	57.3 cm	
Labware Carousel Capacity	30 Stacker Locations	
Labware Waste Options	Internal Chute (4 Stacker Locations) External Chute with Bin	
HEPA Air Filtration	Available	
Ergotron with PC	Included	
2D Barcode Scanning	Included	
Communication Requirement	Ethernet CAT6	
Compressed Air Requirement	90 PSI Minimum	
Power	120 VAC, 60 Hz, 15 A, NEMA 5-15 IEC C13 Connector Provided or 240 VAC, 50 Hz, 8 A, CEE7/7 IEC C13 Connector Provided	
Uninterruptible Power Supply	Included	
Safety	Integrated Light Curtains and Optional Bubble Door	
Overall Weight	159 kg	

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