

Access

Laboratory Workstation

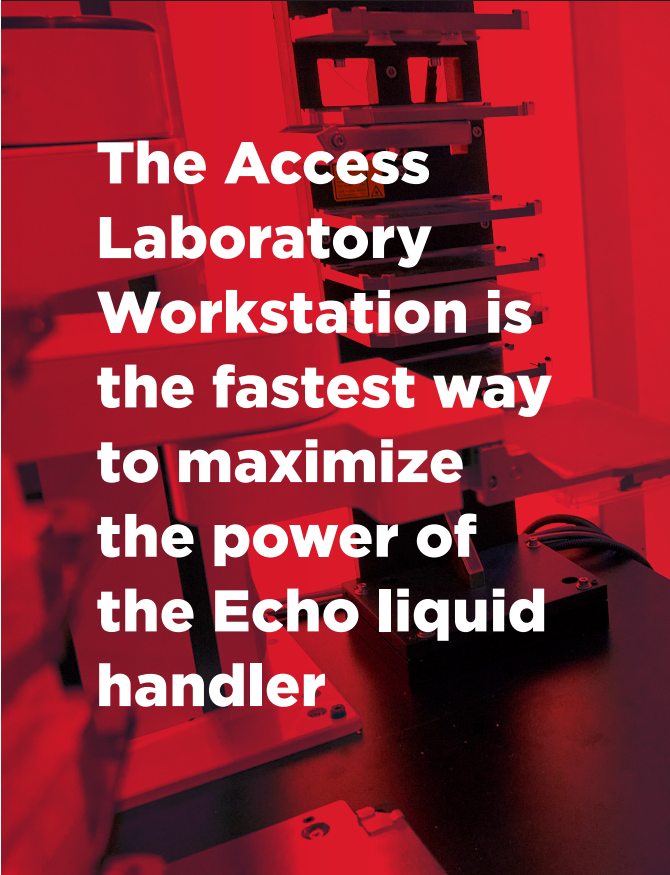
ACCELERATING
answers




Small-scale Automation with Large-scale Results

Combine the revolutionary performance of Echo liquid handlers with automated plate handling and integrated devices into walk-away systems tailored for a range of applications. Access Laboratory Workstations are modular and flexible solutions that easily scale when needed.

Easily add automation to any Echo platform



**The Access
Laboratory
Workstation is
the fastest way
to maximize
the power of
the Echo liquid
handler**

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- True ease-of-use with graphical, wizard-based Tempo Automation Control Software
 - Seamless incorporation of Echo liquid handler protocols into fully automated protocols
 - Standardized and fully tested configurations
 - Configurable with a variety of devices to meet a wide range of applications and workflows
 - Designed to work with the many features in each of the Echo Applications Software
 - LIMS control and monitoring of sequential and simultaneous run and run-sets
 - Safe to use in chemical and biological environments

Ready-to-Go Robotic Systems for Echo Liquid Handlers

Configure and Scale to Meet Your Demands

Access Laboratory Workstations multiply the benefits of the Echo platform by improving overall assay throughput and reproducibility. With the ability to integrate a variety of devices and the modularity to scale when needed, each workstation offers the flexibility required by frequently changing assay requirements.

Scale by adding

- Extension deck and shelf for devices
- Rear tables and shelves for more devices
- Custom integrations from the Access Solutions Group

Integrate devices for

- Sealing
- Peeling
- Centrifugation
- Bulk dispensing
- Detection
- Incubation
- Plate storage
- Washing
- More....

Add accessories to

- Read barcodes
- Manage lids

Integrate any Echo Liquid Handler

- Optional rotating mount



Includes:

- System computer
- Utility / communications hub
- Emergency system stop
- Safety enclosures
- Automatic robot exchange of Echo source plate inserts
- Plate re-grip and orientation change capable by the robot



Up to 4
Microplate
Storage Racks

Automation in Just One Click

Tempo Automation Control Software

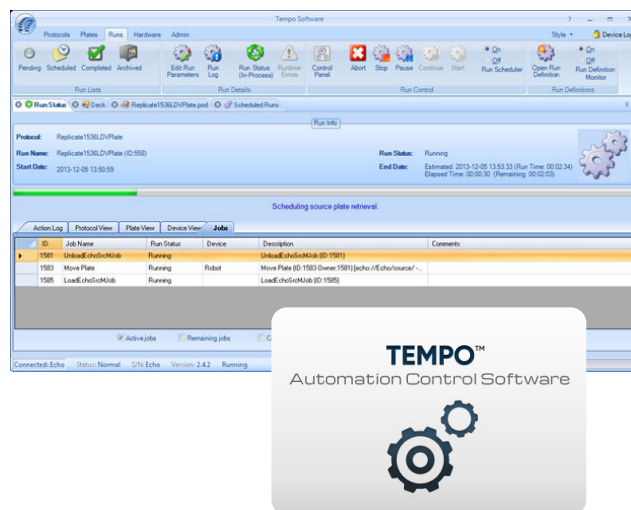
Dynamic Scheduling for Access

Laboratory Workstations

Tempo Automation Control Software offers a research-friendly interface for scheduling Access Laboratory Workstation protocols. It manages all tasks, including sample management, plate handling, liquid handling, detection and laboratory information management system (LIMS) updates. Tempo Software interfaces directly with all compatible versions of Echo Software Applications and is included with all Access Workstations.

Easy Customization

You can schedule routines to start immediately or at a specific date and time. If a scheduled routine has not started, you can step back through the setup wizard to make changes. They can also be grouped in sets, re-prioritized on-the-fly and initiated by your LIMS.



Seamless Integration with Echo Software Applications

Echo software applications utilize interactive wizards and graphics to develop complex liquid transfer protocols for Echo systems. Tempo Software imports these protocols and coordinates Echo liquid handling actions, robotic plate movements and tasks performed by integrated devices into a fully optimized schedule—without requiring users to build loops, write custom scripts or manage external programs.

Array Maker



Transfer samples from microplates to custom microarrays, MALDI chips or arrays at the bottom of a microplate well.

Cherry Pick



Import pick lists to cherry pick samples from large libraries for secondary screening and lead optimization.

Combination Screen



Provides a graphical interface to visually combine dose response curves, controls and single concentration transfers into combination screening protocol.

Dose-Response



Interactive prompts guide the mapping of transfers to create curves of varying concentration range using direct dilution.

Plate Audit



Analyze sample characteristics across sample plates and build validation rules to qualify plates for Tempo software protocols.

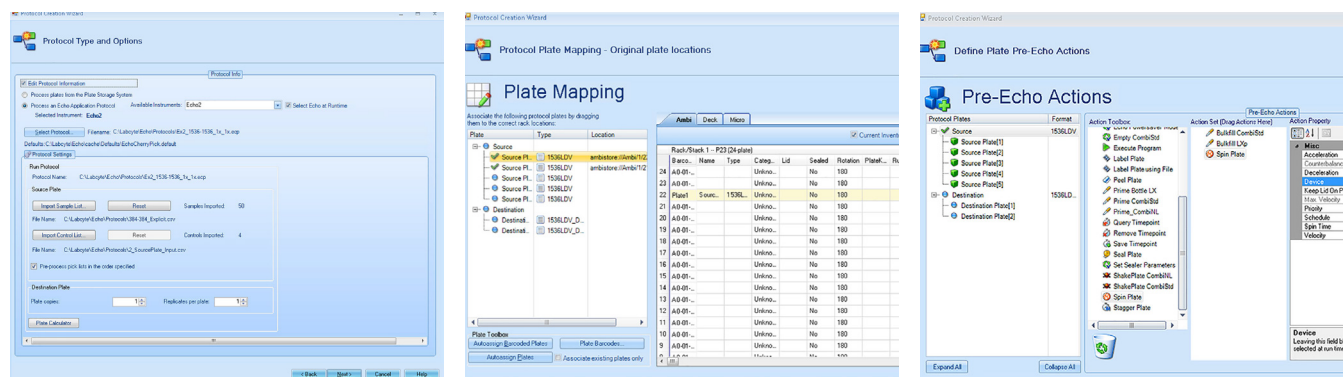
Plate Reformat



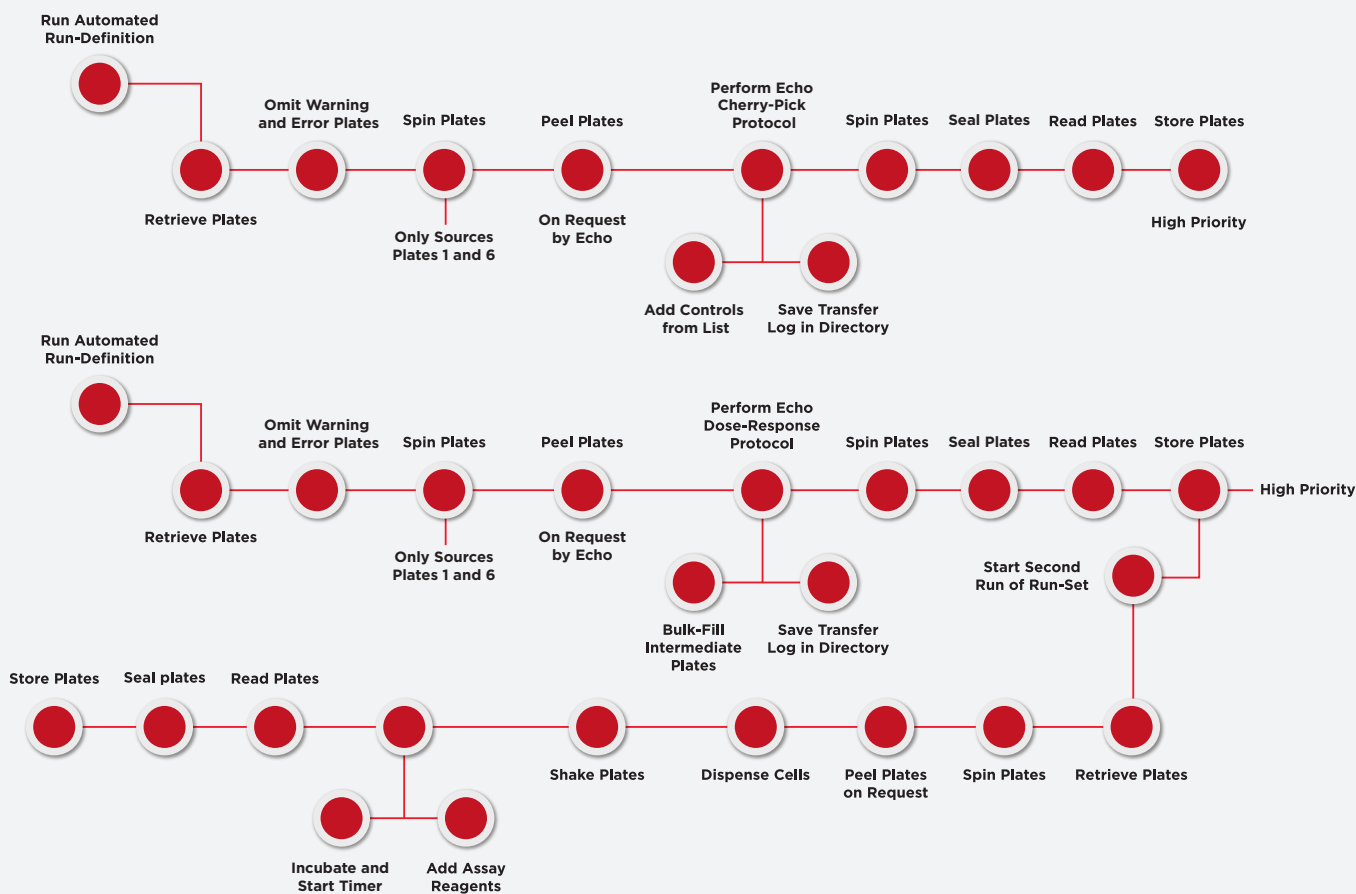
Quickly replicate sample plates into standard or completely custom layouts.

Build Routines in Just 3 Simple Steps

1. Import Echo application protocol and corresponding pick lists
2. Map protocol plates to physical plate inventory
3. Assign Pre-Echo and Post-Echo plate handling tasks



Achieve complex routines with ease



Configurations for a Broad Range of Applications

Assay-Ready Plate Preparation

Assay-ready plate preparation configuration incorporates a sealer, peeler, bulk-dispenser and centrifuge to support walk-away library reformatting, replication, cherry picking and dose response. This workstation accommodates all Echo Qualified Plates and most ANSI compliant/SBS-standard microplates. With random-access microplate storage and options for barcode reading, shaking and de-lidding, the Access Laboratory Workstation offers the productivity of a large-scale system in a compact workspace.

Plate Handling Devices

- Sealer
- Peeler
- Bulk Dispenser or Washer
- Centrifuge

Microplate Storage Rack Any combination of four:

- 20-Plate Random Access Rack
- 50-Plate FILO Stack
- 25-Plate High-Density Random Access Rack

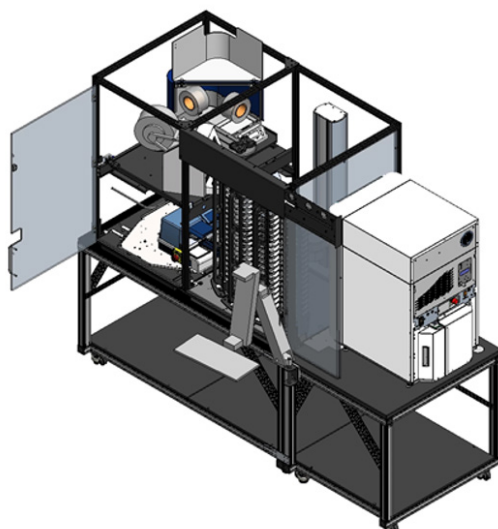


Plate Handling Robot

Accessory Hotel

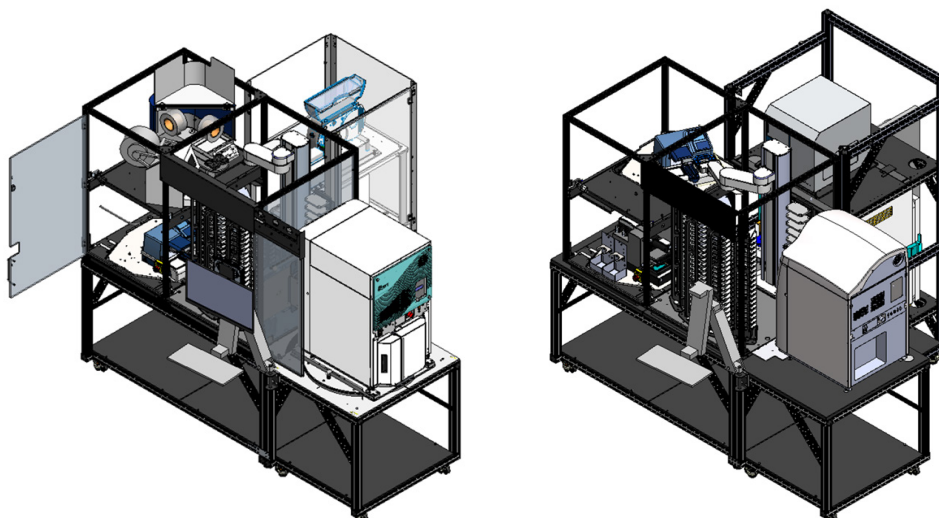
- Barcode Reader
- Lid-removal Station

Echo Liquid Handler

Modular Workstation Tables

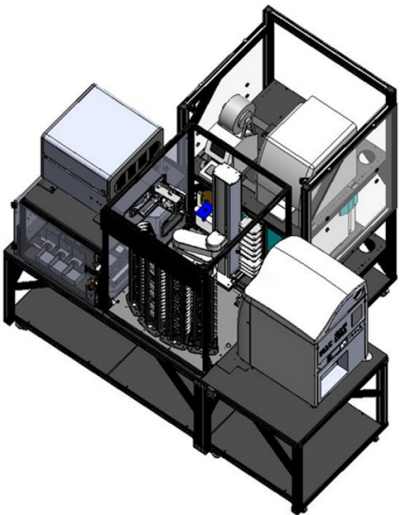
Lead-optimization and Secondary-screening Assays

We can integrate multi-mode microplate readers and controlled storage systems that address a range of biochemical and cell-based assays into a standard Access Laboratory Workstation configuration. This flexibility enables walk-away automation for Cytochrome P450 screening, cell signaling, cell viability and other types of assays. Storage systems can be configured for cold, dry compound storage; warm, humid cell storage; or ambient storage.



High-throughput Gene Expression

The Access Laboratory Workstation, combined with a one-step qPCR preparation workflow for RT-qPCR, can be adapted for high-throughput gene expression screening. With its ability to transfer nanoliter volumes of samples and reagents accurately and precisely, the Echo liquid handler dramatically reduces screening costs—making one-step RT-qPCR viable as a high-throughput screening method. To maximize efficiency, the Access Laboratory Workstation can incorporate one or two Roche LightCycler Systems with the Echo liquid handler and other devices for cell incubation, washing, dispensing, centrifugation and plate sealing.



Protein Crystallography

The Access Laboratory Workstation for protein crystallography applications incorporates an adhesive sealer to prevent evaporation and eliminate the risk of heat exposure, which can occur with thermal sealing. Random access to reagent plates enables on-the-fly creation of grid screens from high-concentration stocks.



Access Laboratory Workstation Technical Specifications

Base dimensions	1651 mm width x 914 mm depth x 1157 mm height (65 x 36 x 45.5 inches)	Air	Filtered, oil-free, dry air: <ul style="list-style-type: none">• 552 kPa (80 PSI) min• 1034 kPa (150 PSI) max 70 Lpm at 621 kPa (2.5 cfm at 90 PSI)
Extended dimensions	Approximately 2360 mm width x 914 mm depth x 1157 mm height (84.25 x 36 x 45.5 inches) depending on configuration	Vacuum	78 kPa (23 inches Hg) minimum, 2.5 CFM
Weight	Approximately 68 kg to 102 kg (150 to 225 lbs) depending upon components	Labware compatibility	All Echo Qualified Microplates and most ANSI-compliant/ SBS-standard microplates (96, 384, 1536)
Electrical	120V, 25A or 240V, 15A ±10%, 50/60 Hz	Application software	Tempo Automation Control Software and compatible Echo Software Applications
Operating environment	21°C ± 5°C (70°F± 9°F), 10–80% relative humidity, non-condensing	Operating software	Microsoft Windows 10 LTSC 2019



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