CUSTOM, MODULAR AUTOMATION SOLUTIONS

Automation will be key to increase lab efficiency and to drive scientific advancement. **explorer™ G3 workstation** comprises a hardware and software platform which can be freely configured to create modular, bespoken automation solutions which provide turnkey automation solutions for virtually all scientific workflows.

WHY AUTOMATE YOUR SCIENCE?

- **IMPROVE EFFICIENCY**
- **INCREASE PRODUCTIVITY**
- **REDUCE HANDS-ON TIME**
- **OPERATORS AND ROBOTS SHARING SAME WORKSPACE**
- **STANDARDIZATION, FAIR DATA**
- **MODULARITY & SCALABILITY**

LEARN MORE ABOUT INTEGRATED LABORATORY AUTOMATION SOLUTIONS
explorer™ G3 workstation

PLATFORM

Center piece of explorer™ G3 workstation platform are a range of standardized Instrument and Robot Tables which can be assembled to create modular, easy-to-upgrade workstations of different shapes and sizes.

SPACE SAVING VERTICAL INTEGRATION CONCEPT

LEARN MORE ABOUT INTEGRATED LABORATORY AUTOMATION SOLUTIONS

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**plate::handler™ Flex ROBOT**

- Collaborative, four-axis SCARA robot with built-in safety features enabling side-by-side human-robot cooperation; no safety shielding needed
- Full metal casing, space saving design with motion controllers build into the structure of the robot
- Fast, fluid and quite movements
- Build-in Servo gripper enabling robot to grip plates on either long or short side
- Hand guided teaching
- Robot available in 3 different heights (400, 750 and 1160mm), two different arm length with option to increase lateral reach by placing robot on a linear track

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plate::works™ SCHEDULING SOFTWARE

BUILDING ON 20 YEARS OF EXPERIENCE
Since its launch in 1997, plate::works™ scheduling and control software has been used to automate a great variety of customer workflows, with numerous installations spread over all five continents.

FLEXIBLE
plate::works™ software empowers operators to create their own methods with the plate::works™ event-based scheduling model to support even the most challenging workflows. Flexible control elements to set-up sample and/or plate specific processes, with plate::works™ software to support multiple workflows being processed in parallel.

EASY-TO-USE
Software guiding operators through the steps to set-up an automated process. All labware movements handled automatically by the scheduler with robot to use transport speeds and gripping positions based on information stored in a central labware database.

RELIABLE
Software to make every conceivable attempt to recover from an error situation, making a failed run an exceptional event. Advanced error handling routines guiding operators through the steps and options to get the system quickly back into operation.

>150 INSTRUMENT DRIVERS AVAILABLE
Extensive library of readily available instrument drivers. Drivers for PerkinElmer Instruments to be provided free of charge.
**KEY FEATURES**

**Event Driven Scheduling**
plate::works™ software to combine advantages of dynamic and static scheduling enabling operators to control and fine-tune dynamic scheduling by adding constraints and/or controlling elements.

**Real Time Decision Making & Re-Scheduling**
Scheduler to support on-the-fly re-scheduling allowing critical parameters to be updated at any time during a run and plate processing to respond to external data or events (e.g. results, conditions, LIMS, scripts, ...).

**Parallel Methods**
Scheduler to support multiple independent methods being executed in parallel.

**Continuous / On-Demand Processing**
Scheduler to support continuous plate processing allowing new plates and labware to be added to an already running process as well as on-demand plate processing with system to process plates when they become available.

**Pooling**
Up to 3 identical instruments to be treated as one logical instrument (for easier programming and added redundancy).

**Simulations**
To quickly optimize workflows (test different process variants and conditions) and to check for correct execution prior to committing time and reagents.

**21CFR11 Support**
plate::works™ software to support setting-up regulated processes by providing user rights management and by logging changes being made to methods.

**Worklist Support**
Plate/sample specific parameters or conditions (e.g. incubation times, dispense volumes, ...) can be read from worklists. Support for cherry picking, normalization and other tasks relaying on external information.

**Scripting Support**
Enabling operators to add own functionality to scheduling process.

**Offline Use**
plate::works™ software to support operators taking critical detection instruments offline and to use manually up till the point where instrument is been needed to support automated process.

**Add-ons / Options**
job::manager™ Process Planning and Workflow Scheduling software
wellmap::creator™ Transfer Map Editor

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CUSTOM, MODULAR, SCALABLE WORKFLOW AUTOMATION SOLUTIONS

DESIGNED TO RUN 24/7

COMPACT, SPACE SAVING DESIGN

REAL-TIME DECISION MAKING

>150 INSTRUMENT DRIVERS AVAILABLE

> 20 YEARS EXPERTISE IN BOTH INSTRUMENTS & INTEGRATIONS

Please contact us to discuss your automation needs and how PerkinElmer can help you automating your science.