HAMILTON®

VENUS 6.0.1

Release notes | 2023-06-09

STAR and VANTAGE:

Function	Description / Changes / New features
General	• Support of Windows 10 64-bit and Windows 11 64-bit operating system
Phoenix	• Use of Phoenix 6.0.1.50042
Interface	• New application interface (single desktop icon) • Dark and Light Theme options • New - Home section with instrument status, recent runs and frequent shortcuts • New - Shortcuts section • New - Shortcut validation flag • New - Run Control • New - Trace Viewer • New - Run History section • New - 'Generate Diagnostics File' from run, with traces and method pkg • New - Maintenance section • New - Instrument Control section • New - System Tools section • New - Settings section with application settings and shortcuts manager • New - Import/Export shortcuts and methods function • New - Run History auto-cleanup option • New - Support section for contact cards
Remote Monitoring	• New remote run monitoring over the web
Editors	Method Editor: • New - Add/remove multiple dependencies at once • New - Add/remove multiple libraries at once • New - Complex 'IF/ELSE' command with AND/OR • New - Complex 'Assignment with calculations' command • New - Support for emailing with SSL and TLS • New - Simulation toggle under Tools menu

	- New - Stop timer command - New - Stop individual timers at runtime - New - Timer display name - New - Sequence : Get remaining positions command - New - Validate method and all related files (except liquid classes) - New - Variables view context menu : Remove unused - New - Search with regular expressions, find previous, mark all - New - Ungroup steps - New - Group description (auto traced) and notes (not traced) - New - Trace timers start/end - New - Add multiple libraries and remove all libraries - New - Key shortcuts to group/ungroup - New - Allow editing a method while it´s running (requires restart the run to apply changes) System Deck Editor: - Sequences list - highlight item on key press Labware Editor: - New - Support for Multiflex Carrier definition - New - Labware category manager - New - Labware filters - New - Automatic labware index generation Liquid Class Editor: - Support for MagPip liquid classes System Configuration Editor: - New - VANTAGE arms configurator - New - Email SMTP security protocol setting - Hamilton Authentication System option has been removed
Power Steps	The following Power Steps are available: - New - Load And Match - Transfer Samples - Add Reagent - Serial Dilution - Replicates - Hit Picking
Custom Dialog Step	- Included Template 'Hamilton' - Option to link external image - Default keep image aspect ratio

	• Define control tab index • Auto-close dialog after timeout • Multi-select controls • Align and distribute multiple controls • Option to set focus to specific control on startup • Startup dialog window location • Text input as password (mask input) • Text input automatic scrollbars • Use array values as in/out variable for checkboxes and radio buttons
Installer	• Activation of .NET 3.5 feature (internet access required) and check for .NET 4.6.2 availability • Microsoft® SQL Server 2019 Express Edition • Separate installers for STAR and VANTAGE • TADM installed by default (requires manual activation on STAR) • Scheduler installed by default
VANTAGE	• Support for dual arm configurations (no duplicated tools allowed) • New – MagPip Channels steps • New – 2T labware definitions for different cover types • New – Track Gripper startup maintenance routine • New – Track Gripper calibration alignment routine • New – 5mL daily maintenance routine • New – MagPip daily maintenance routine • Improved CAS (Collision Avoidance System) • Improved QCG error handling on abort
Bug Fixes	• Bug 34599: Status Light steps (Set and Progress) don't work when no Initialize step executed before • Bug 34808: Load Carrier - Barcode filename with parenthesis in the path cannot be used • Bug 36972: iSWAP does not re-open gripper when looking for the next plate on Get First Plate on Stack • Bug 17937: HxRun crash (exception code 0xc015000f) when calling SeqGetPositionCountForCurrLabware with no positions available • Bug 33304: Power Steps - Unnecessary tip pick up after processing all non-controlling seq positions • Bug 38453: Power Steps - Hit Picking - only first 8 volumes in the worklist are used • Bug 29443: Power Steps - Serial Dilution - Wrong volume in 2nd dilution if 'Pipette Samples' is selected • Bug 32077: Reading from *.xlsx file with no header skips first row