

MaxLab Live Version 24.2 – Release Notes

24.2.2 – 05. December 2024

Updates & Improvements

- **Documentation Section:**
 - New Section provides offline and online access to key documents such as product documentation and protocols.
 - Updated API documentation (*API license required*) is now accessible through MaxLab Live and features code examples and FAQs.
- **Status Tab:**
 - The Offset and Noise Histograms now show the distribution only for channels connected to electrodes, rather than for all channels as in previous versions.
 - Offset adjusted to center around 0 instead of 512, simplifying the interpretation of values.
- **Assay Workflow and Projects:**
 - Reorganized buttons for creating new assays and accessing project functionalities, offering an improved and more intuitive overview.
- **Stimulation Assay**
 - Terminology update: "Pulse Train" renamed as "Burst" for improved clarity.
 - Additional parameters are included, interconnected with the pulse timing parameters, allowing users to modify either value:
 - Pulse Frequency [Hz]: Derived from the Interpulse Interval [ms].
 - Burst Frequency [Hz]: Derived from the Interburst Interval [s].
 - Pulse Duration [μs]: Represents twice the Pulse Phase [μs].
 - The allowed ranges for some Stimulation Assay parameters have been expanded to increase flexibility.
- **Stimulation Analysis**
 - A new toggle option now allows artifact suppression to be disabled.
 - Default setting is Artifact Suppression: Off.
 - Modification of the Analysis Window parameters:
 - Analysis Window Start: Now defaults to "Auto," setting the analysis window start time 0.5 ms after the last stimulus.
 - Analysis Window Duration: Now defaults to "Auto," setting the analysis window duration to 25% of the Interburst Interval.

Note: To restore the analysis settings from earlier releases (<24.2), adjust the following: set Analysis Window Start to 0, Analysis Window Duration to the Interburst Interval, and toggle Stimulation Artifact Suppression to "On."
- **Report Generator:**
 - Added an option to duplicate tables within a report.
 - Table headings are now automatically abbreviated if they exceed the available column width.
 - A default file name is now provided when exporting a report as a PDF.
- **Batch Analyzer:**
 - Added a checkbox to quickly select all assays with the same analysis type for export.
- **MaxTwo Firmware:**
 - Improved firmware update process.
 - Improved plate loading and unloading times.
 - Reduced fluctuations of heater status indicator in MaxTwo System Control.

Bug Fixes

- **Data Replay:**
 - Fixed an issue preventing the replay of old file format.
- **Network Assay**
 - Resolved exporting failure for ISI_n Burst Detection analysis results.
- **AxonTracking Assay:**
 - Fixed the calculation of the estimated runtime and progress bar to ensure accurate tracking during the assay.
 - Resolved errors occasionally occurring during spike sorting.
- **Batch Analyzer:**
 - Ensured successful export of multiple assays, even when one fails.
- **Report Generator:**
 - Restored missing tables when duplicating reports.
- **MaxTwo Firmware:**
 - Resolved a problem where 24-well plates were not consistently recognized.

24.2.4 – 09. December 2024

Bug Fixes

- **Documentation Section:**
 - API documentation (*API license required*) updated to latest version.
- **MaxLab Live Server:**
 - Fixed an incorrect warning display for the required UDP receive buffer size during server startup.

Revision History

MaxLab Live Version 24.2.4: December 2024
© MaxWell Biosystems AG. All rights reserved.

