maxwell BIOSYSTEMS
Every Cell Has A Story To Tell

MaxLab Live v24.1 | What's New?

Workflow for high-throughput data acquisition and analysis

Annotation Tab (*included feature*)

Annotate past and future recordings

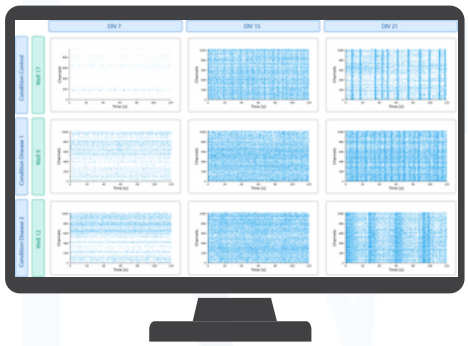
Batch Analysis Module (*licensed product*)

Analyze your data simultaneously

Report Generation Module (*licensed product*)

Create overview of all your results

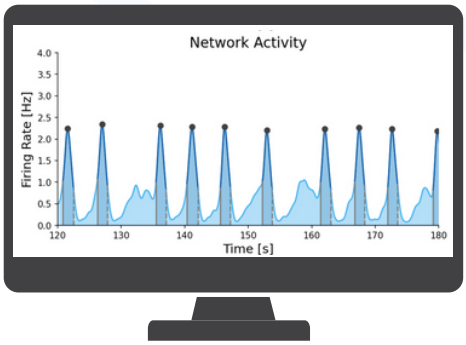
New: Report Generation Module



- Generate grid plots automatically
- Visualize results across projects
- Customizable layouts

Network Burst Detector

New: ISI_N-based Network Burst Detection



- Robust detection across datasets
- Simplified parameter tuning
- Enhanced visualizations

Further Improvements

- Improved exporting of edited annotations
- Assays can now be sorted by Well-Plate ID
- Optimized ActivityScan Assay timing for MaxOne, ensuring faster execution of assays
- New “static color bar” option allowing an easier comparison of Activity Maps across experiments
- Additional methods (Neuronal Units and Hot-spots) for selecting recording electrodes in Stimulation Assay

MaxLab Live Version 24.1 – Release Notes

24.1.2 – 11. June 2024

Key Updates

- **Report Generation Module** (license required):
  - Generate comprehensive reports with ease to analyze data efficiently.
- **Annotation Tab** (available to all as new Tab):
  - Streamline assay annotation editing across multiple projects.
- **ISI_N-based Network Burst Detection** (available to all under Network Analysis):
  - Perform burst detection analysis for Network Assay with simplified parameter requirements.

Improvements

- **ActivityScan Assay for MaxOne:**
  - Optimized timing ensures faster execution of assays.
- **Activity Analysis:**
  - A new toggle option in Visualization Parameters allows Activity Maps to be plotted with a static color bar, simplifying the comparison of Activity Maps across multiple experiments.
- **Stimulation Assay:**
  - Added two additional methods (Neuronal Units and Hot-spots) included for selecting recording electrodes, enhancing flexibility in electrode selection.
  - Assay parameters are checked for consistency when starting an assay to prevent the use of invalid combinations.
- **Assays & Analysis Tab:**
  - Assays can now be sorted by Well Plate or Chip ID.
  - Stabilized memory consumption addresses performance issues, particularly for large projects with numerous assays.
- **Metrics Export:**
  - Edited annotations are now correctly exported with assay metrics without requiring a re-run of the analysis.
- **MaxTwo:**
  - Streamlined firmware update process enhances device performance and reliability.
  - Improved Well-Plate Lock operation reduces waiting time.

Bug Fixes

- **Data Replay:**
  - Fixed an issue preventing the replay of data files from folders with spaces in their names.
  - Resolved issues with data replay from 24-Well Plates.
- **Assays:**
  - Fixed a bug causing assays to disappear from MaxLab Live Scope.
  - Fixed an issue where manually stopping running assays required a restart of the scope and server.

Revision History
MaxLab Live Version 24.1.2: June 2024
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info@mxwbio.com www.mxwbio.com