

Radiens Release Notes

Updated May 9, 2024

Radiens Update

A new version of Videre has been released. This update brings all the UI updates that are already in Allego and Curate, and a number of new features and significant spike sorting improvements.

<https://www.neuronexus.com/radiens-allego-download-page/>

Videre 1.5.28:

Features:

- Unified datasource replay UI with global DVR bar
- Ability to unload datasets via dropdown
- User adjustable thresholds for offline spike sorter
- User adjustable spike sorter feature calculation params
- “Show thresholds” toggle in monitor bottom bar for showing current threshold settings
- Pop-out oscilloscope and spike plots
- Threshold control (including draggability) in oscilloscope pop-out
- Added Neurons tab
 - Analytics available: Average Waveform and Inter-spike-interval
 - lookback window or fixed time range for generating plots
- Option to recalculate Signal Metrics for the file using the current settings (e.g., channel selection, filters, referencing)
- Neuron colors
 - New colors added
 - Colors are now consistent between Neurons, Spikes, 3D Model, and Raster tabs

Changes:

- Monitor tab redesign (same UI changes introduced in Allego 3.4.34)
 - New View Settings: Choose from preset values for individual channel heights, neural channel and GPIO channel amplitudes, and window lengths
 - New preset buttons to quickly switch between views for Units and Fields
 - New View Modes

- Raw: Simple downsampling of displayed data
- Spikes: Downsamples data while retaining high-amplitude events
- Anti-Alias: Applies a low pass filter before downsampling to prevent aliasing effects

Fixes:

- General styling improvements/fixes
- Monitor tab performance improvements
- Raster plotting performance improvements, especially for high channel counts
- HD snapshot performance improvements
- Improved offline spike sorter accuracy and speed
- Spike Sorter tab gives improved progress indication and error reporting while offline sorting
- Neurons tab
 - minor layout and update bugs when switching between spike sorter IDs
 - don't return neurons that had didn't have spikes in req time range
- 3D Model tab bug that caused too large of space between neuron and probe on some sites