

## PhysioLink Add-On to OLYMPUS FLUOVIEW™

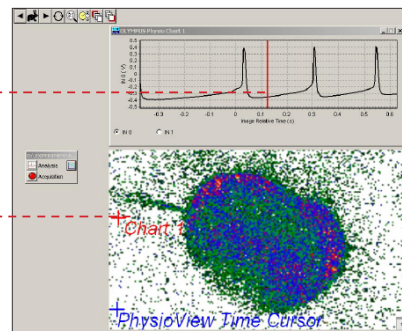
FLUOVIEW PhysioLink provides high precision synchronization of LSM confocal imaging with electrophysiological recordings, all within FLUOVIEW. PhysioLink synchronizes the two data sets during both acquisition and analysis and is compatible with popular electrophysiology systems (e.g. pCLAMP).

The base configuration requires:

- A computer for the FLUOVIEW system
- A computer for the electrophysiology system
- An Ethernet connection between the two computers, that rapidly conveys synchronization information between the two computers

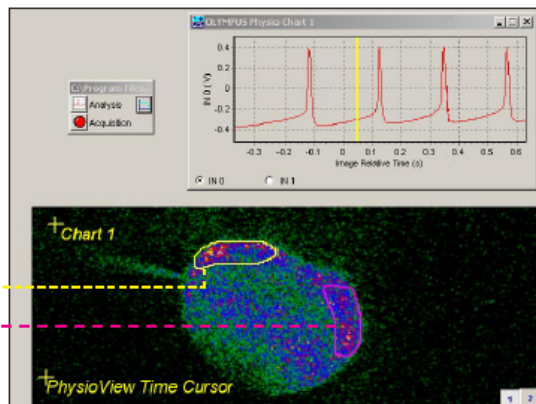
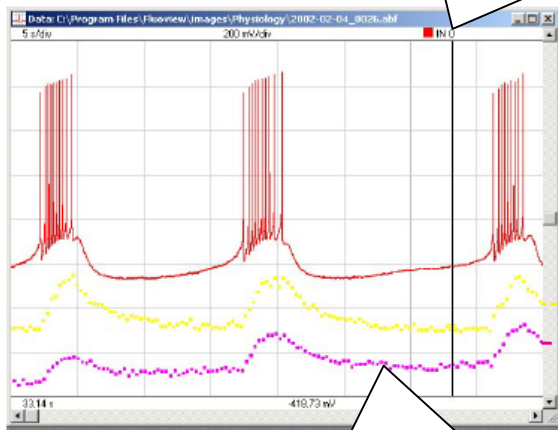
During analysis, PhysioLink causes FLUOVIEW to display its images together with the electrophysiological data, in one window:

Sliding the red vertical cursor along the time axis moves the image cursor through the time series of images



The electrophysiology monitor (left window, below) shows the time-course of the electrophysiology data and the fluorescence intensities averaged over the ROIs drawn on the FLUOVIEW monitor (right window).

Sliding the vertical cursor along the time axis moves the "PhysioView Time Cursor" through the image series on the FLUOVIEW monitor (right window)



Averages of intensities measured over the colored ROIs in the FLUOVIEW image (right window)

## Requirements

- The FLUOVIEW computer must run FLUOVIEW v5.0c with TCP/IP networking
- The pCLAMP computer must run Clampex 8 or later, preferably 9 or later for better time resolution, and have TCP/IP networking
- The two computers must be able to "see" each other across the network
- Saving of synchronization data between FLUOVIEW and Clampex experiments require (1) the FLUOVIEW data set must be saved to disk and (2) the Clampex acquisition must be complete before the FLUOVIEW data are saved

## Contact Information

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