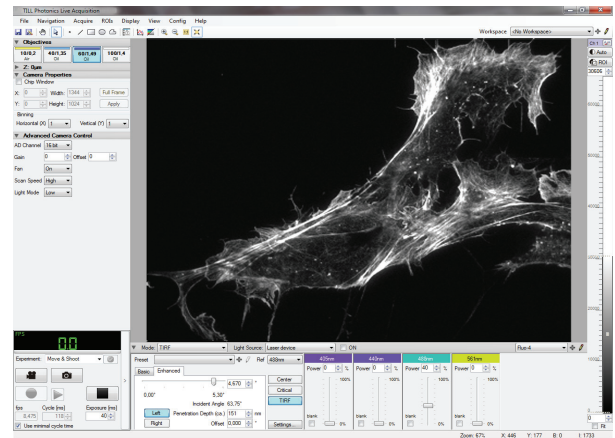


Software



TILL Photonics Live Acquisition Software – For Real-Time Live Cell Imaging

LA Software General Information

LA Software is a comprehensive suite for light microscopy applications. It consists of the two main applications: Live Acquisition and Offline Analysis.

Live Acquisition is the application that allows recording of multi-position, multi-dimensional, multi-channel series in real-time and at highest speed with more than 300 fps. It controls all the hardware for a broad range of experiments like TIRF, FRAP, FRET or structured illumination. Workflow management makes it possible to combine these techniques.

Turn images into results with the Offline Analysis. Manage, evaluate and visualise the data created with Live Acquisition. Offline Analysis is made for analysing image data acquired with Live Acquisition and for managing data in sets. Sets can hold multiple image sequences and therefore enable project based organisation of your data.

The modular architecture of the LA Software grows with your experimental needs.

Live Acquisition Key Benefits

Designed to make real-time, high-speed and multi-dimensional acquisition easy, it has a range of benefits to offer to the user:

Real-Time Imaging System

- Facilitates the recording of high-resolution, high speed image series with microsecond precision.
- Minimises photo bleaching and photo toxicity on the sample.

Optimised Navigation for the iMIC

- Navigator, Overview Scan, software joystick and click-to-center functionality included.
- Position markers allow precise navigation.

User in Control

- Full control over all hardware devices enables easy utilisation during experiments.



TILL Photonics Live Acquisition Software

Protocol Editor

General Information

This component makes fast and easy generation and editing of complex workflows with a graphical presentation.

For Beginners & Professionals

- Pre-defined protocols make comprehensive workflows – easy to read and understand.
- Automatic protocol optimization ensures highest performance.

Offline Analysis

General Information

Offline Analysis is designed to help analyse image data obtained by the Live Acquisition Software, offering fast access to images and previously stored data sets.

Multi-Talented Visualisation

- Data management for grouping of image sequences and analysed data.
- Fast and efficient analysis of ROIs for Kinetics and RATIO.
- Shows extensive meta data of

the images.

- Adjustment of xy-offsets for images acquired with the Dichrotome.
- Controlling the view by freely setting the channel, plane and time point visibility.

The ROI data can be visualised in a chart and time lapse experiments quantitatively evaluated. The ROIs can be freely defined. Add background ROIs and thresholds for each channel to the evaluation as needed.

Analysis

- Kinetics and RATIO analysis.
- Background correction and thresholds.
- Data export via clipboard and file (xls, csv).
- Time Marker display.
- Show/Hide individual traces or groups of traces in the graph.

FRET Analysis

General Information

Choose from a selection of published methods to evaluate the amount of FRET signals in a

specimen on- and offline. Evaluate the FRET in ROIs for local analysis. Apply various colour palettes to the resulting FRET images.

Analysis

- On- and offline analysis
- Three published FRET calculation methods
- Colour mapping
- Export of calculated values charts and images.

Supported Hardware

Cameras

- Andor Ixon (897, 885, 888)
- Andor Clara and Luca series
- Photometrics Evolve 512
- Hamamatsu Orca R2 & G03
- AlliedVisionTec Stingray F-145B



Light Sources

- Polychrome V
- Oligochrome
- Laser Line Combiner

Other Hardware

- iMIC
- iMIC Dichrotome
- iMIC Camera port switch
- Polytrope I&II
- Yanus IV Scan Head

Software Bundles

	 LA Imaging	 LA Advanced	 LA Premium
Main Modules	Acquisition, Protocol Editor and Offline Analysis		
Analysis modules	Kinetics and RATIO		
Advanced Analysis	FRET (optional)	FRET (optional) FRAP (optional)	FRET FRAP
Advanced Experiments	none	Dynamic FRAP (optional)	Dynamic FRAP
iMIC control	no	yes	yes

Product specifications and descriptions in this document are subject to change without notice. © TILL Photonics GmbH 2012



TILL Photonics GmbH · Lochhamer Schlag 21 · 82166 Graefelfing · Germany
 Phone: +49 89 895 662-0 · Fax: +49 89 895 662-101
 info@till-photonics.com · www.till-photonics.com

TILL USA · 1286 Blossom Drive · Victor · NY 14564 · USA
 Phone: +1 866-547-8455 · Fax: +1 866-863-5581 · sales@till-usa.com