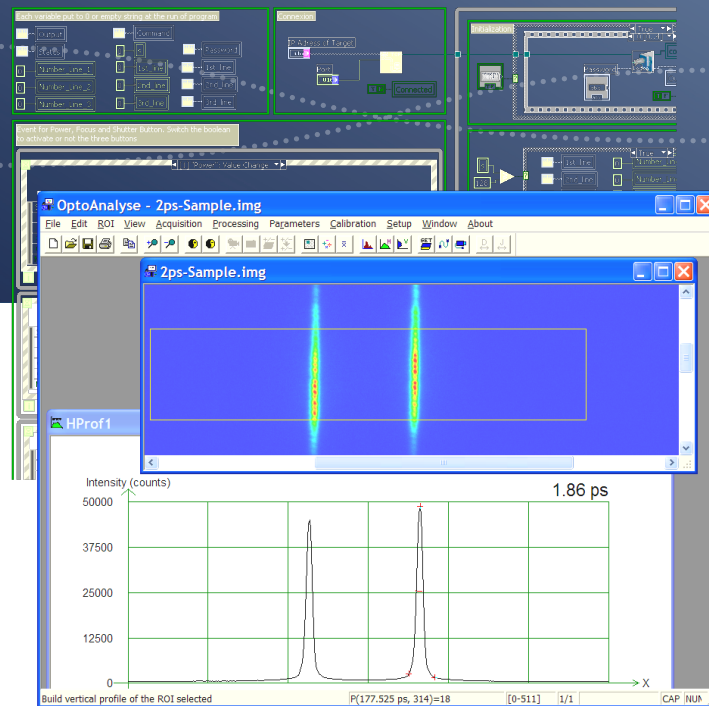


STREAK CAMERA

# OptoAnalyse

## Operation and Analyse Software



- Streak camera control and real-time image display
- 32 bit intensity coding for improved image processing
- Image analysis with different fitting functions
- Noise reduction and photon counting
- Spectrometer and trigger timing control
- Interface to external software and to LabVIEW (optional)

# Software OptoAnalyse

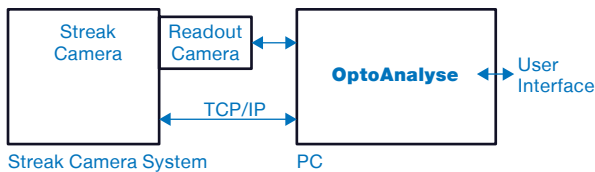
The OptoAnalyse software provides an easy to use software interface to operate the OPTOSCOPE-SC streak camera system. It allows to control all streak camera functions as well as to capture and analyse streak camera images. The OptoAnalyse software is optimized for effective image acquisition and provides various tools for temporal or spatial analysis.

## FEATURES

- Streak camera control and real-time image display
- Image acquisition in analogue or photon counting mode
- Real-Time photon counting with centre of gravity calculation
- Various image correction algorithms integrated
- Spectrometer control and wavelength calibration
- Image processing with fixed point 32 bit intensity coding
- Gaussian and exponential decay-fitting in real time
- System configuration information saved as text file
- Drift and jitter correction
- Singel and multi streak camera control

## CONFIGURATION

OptoAnalyse software controls the streak camera including all sweep units via an Ethernet (TCP/IP) interface. Additionally, readout camera images are displayed and processed. Therefore a separate interface between the readout camera to the PC is used.

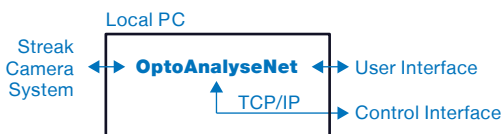


## /CI OPTION

The /CI option is available for streak camera integration into high-level control structures or into the LabVIEW(R) environment. This optional package consists of OptoAnalyseNet and OptoAnalyseVIs. LabVIEW(R) is a graphical programming environment from National Instruments and need to be provided separately.

## /CI OPTION - OPTOANALYSENET

The OptoAnalyseNet part of the /CI option has the same functionality as OptoAnalyse but additionally provides a control interface via TCP/IP. The interface allows to remotely access image data and high level software functions. OptoAnalyseNet simplifies the integration of the streak camera system into a control system environment.



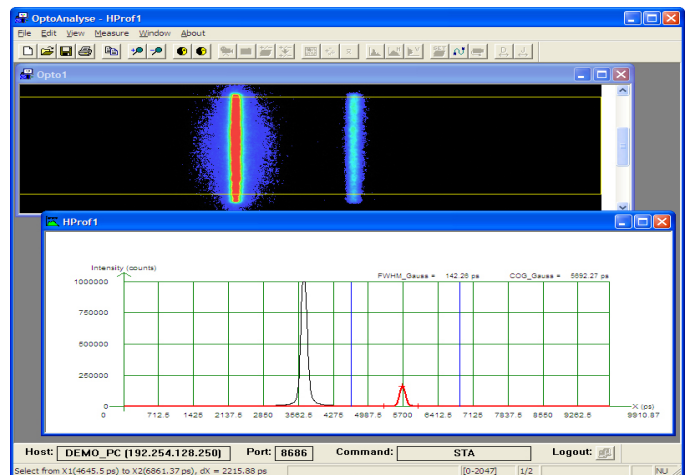
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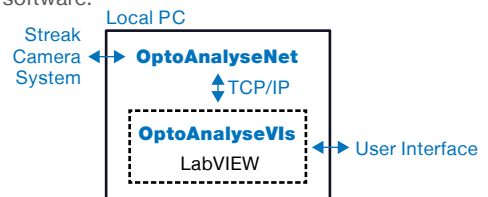
The information given herein is believed to be reliable, however Optronis makes no warranties as to its accuracy or completeness. Data sheet is subject to modifications at any time. 1/2017

## /CI OPTION - OPTOANALYSENET



## /CI OPTION - OPTOANALYSEVIS

OptoAnalyseVIs are Virtual Instruments (VIs) to be executed in the LabVIEW(R) environment. VIs for direct streak camera control are provided. Additional VIs are based on the OptoAnalyseNet program to simplify control structure and to provide access to high-level functions of the OptoAnalyse software.



The VI below shows an example. Individual developments can be based on this.

