

- [contributing](#)
- [courses](#)
- [epub](#)
- [faq](#)
  - [old\\_dongles\\_drivers\\_for\\_fluofit\\_symphotime\\_32](#)
  - [how\\_can\\_i\\_analyze\\_my\\_data\\_using\\_non-picoquant\\_software](#)
  - [laser\\_intensity\\_response](#)
  - [novaflim\\_calculated\\_irf](#)
  - [novaflim\\_license](#)
  - [the\\_dark\\_counts\\_of\\_my\\_spads\\_increased.\\_when\\_do\\_i\\_need\\_to\\_take\\_action](#)
  - [why\\_do\\_i\\_not\\_get\\_the\\_same\\_count\\_rates\\_on\\_both\\_spad\\_detectors](#)
- [fluotime250](#)
- [general](#)
  - [advantages\\_and\\_disadvantages\\_of\\_two\\_photon\\_excitation\\_tpe](#)
  - [community\\_news](#)
  - [fluorescence\\_correlation\\_spectroscopy-\\_a\\_short\\_introduction](#)
- [glossary](#)
  - [alex](#)
  - [aotf](#)
  - [asymptotic\\_standard\\_errors](#)
  - [bdf](#)
  - [bifl](#)
  - [bootstrap\\_method](#)
  - [bootstrap](#)
  - [cfd](#)
  - [chi\\_square\\_management](#)
  - [chi\\_square](#)
  - [convolution](#)
  - [dead\\_time](#)
  - [deconvolution](#)
  - [differential\\_count\\_rate](#)
  - [fast\\_flim](#)
  - [fast\\_lifetime](#)
  - [fastlt](#)
  - [fcs](#)
  - [flim](#)
  - [fluorescence\\_lifetime](#)
  - [frap](#)
  - [fret](#)
  - [fwhm](#)
  - [hybrid\\_pmt](#)
  - [irf](#)
  - [least\\_squares](#)
  - [marquardt-levenberg](#)
  - [mcp](#)
  - [mcs](#)

- [mle](#)
- [monte\\_carlo](#)
- [nim](#)
- [od](#)
- [pie](#)
- [pile-up\\_effect](#)
- [pmt](#)
- [poisson\\_distribution](#)
- [pre-histogrammed\\_image](#)
- [pulsed\\_interleaved\\_excitation](#)
- [reconvolution](#)
- [residuals](#)
- [spad](#)
- [spads](#)
- [support\\_plane\\_analysis](#)
- [t2-mode](#)
- [t3-mode](#)
- [tcspc](#)
- [tttr](#)
- [howto](#)
  - [ax\\_flim\\_example](#)
  - [ax\\_flim\\_examples](#)
  - [novaflim](#)
    - [tutorial1](#)
  - [phasor\\_plot\\_structure\\_separation](#)
  - [2ffcs](#)
  - [align\\_beam\\_backreflection](#)
  - [antibunching\\_measurements](#)
  - [avoid\\_pile\\_up\\_effect\\_in\\_flim\\_measurements](#)
  - [calculate\\_and\\_fit\\_fcs\\_traces\\_with\\_the\\_fcs\\_script](#)
  - [calculate\\_fccs\\_trace\\_with\\_the\\_grouped\\_fcs\\_script](#)
  - [calculate\\_ratiometric\\_fret-images](#)
  - [calculate\\_ratiometric\\_single\\_pair\\_fret\\_distributions\\_using\\_the\\_pie-fret\\_script](#)
  - [calculate\\_ratiometric\\_single\\_pair\\_fret\\_distributions](#)
  - [calibrate\\_the\\_confocal\\_volume\\_for\\_fcs\\_using\\_the\\_fcs\\_calibration\\_script](#)
  - [check\\_overlap\\_of\\_different\\_color\\_confocal\\_volumes](#)
  - [data\\_file\\_import](#)
  - [determination\\_of\\_the\\_focal\\_width\\_with\\_the\\_focal](#)
  - [diamond\\_nv\\_centers](#)
  - [exchange\\_dichroic\\_mt200](#)
  - [flim\\_fret\\_calculation\\_for\\_multi\\_exponential\\_donors](#)
  - [flim\\_measurement\\_using\\_a\\_nikon\\_a1\\_with\\_a\\_flim\\_and\\_fcs\\_upgrade](#)
  - [flim-fret\\_calculation\\_for\\_single\\_exponential\\_donors](#)
  - [flim-fret\\_measurement\\_using\\_an\\_olympus\\_fv1200\\_with\\_a\\_flim\\_and\\_fcs\\_upgrade](#)
  - [how\\_to\\_measure\\_the\\_instrument\\_response\\_function\\_irf](#)
  - [how\\_to\\_work\\_with\\_the\\_instrument\\_response\\_function\\_irf](#)
  - [intensity\\_time\\_trace\\_analysis](#)
  - [lifetime\\_fitting\\_using\\_the\\_flim\\_analysis](#)
  - [lifetime\\_fitting\\_using\\_the\\_tcpsc\\_fitting\\_script](#)
  - [lifetime-fitting\\_using\\_the\\_flim\\_script](#)
  - [lifetime-fitting\\_using\\_the\\_rapid\\_reconvolution\\_algorithm](#)
  - [measuring\\_quantum\\_yield](#)
  - [mt200everyday\\_alignment](#)
  - [mt200fcs](#)
  - [mt200fundamental\\_alignement](#)

- pattern\_matching
- performing\_an\_fcs\_measurement\_with\_an\_olympus\_fv1200\_upgrade\_kit
- phasor\_analysis
- deconvolution\_fit
- recording\_a\_fluorescence\_lifetime\_image\_flim\_stack\_with\_a\_lsm\_upgrade\_kit\_on\_a\_nikon\_a1
- registering\_new\_scripts
- roi\_fitting\_using\_the\_flim\_script
- select\_the\_correct\_pinhole\_size
- separation\_of\_2\_species\_with
- symphotime\_tips\_and\_tricks
- t3r\_antibunching\_-\_slow\_decay
- update
- using\_the\_anisotropy\_image\_script
- using\_the\_antibunching\_script
- using\_the\_flcs\_script\_for\_spectral\_crosstalk\_removal\_via\_flccs
- visualizing\_dynamics\_using\_the\_multiframe-flim\_script
- visualizing\_dynamics\_with\_the\_multi\_frame\_flim\_analysis
- playground
  - test
- products
  - hydraharp\_400
  - microtime
  - picoharp\_300
  - sepia\_ii
  - symphotime64
  - tcspc\_electronics
- software
  - easytau
  - fcs\_viewer
  - flimfit
  - fluofit
  - pycorffit
  - supported\_mt200\_pc\_configuration\_for\_symphotime\_32
  - supported\_mt200\_pc\_configuration\_for\_symphotime\_64
  - symphotime\_32
  - symphotime
  - symphotime64
- support
  - configuring\_symphotime64\_after\_installation
  - supported\_mt200\_pc\_configuration\_for\_symphotime\_32
  - supported\_mt200\_pc\_configuration\_for\_symphotime\_64
  - tcspc\_external\_markers
- tag
  - howto
- technical\_docs
  - beampath\_of\_the\_zeiss\_lsm700
- wiki
  - dokewiki
  - ebook
  - syntax
  - welcome
- writingroom
- applications
- basics
- beampath\_of\_the\_zeiss\_lsm880

- contributions
- contributions12
- create\_time\_gated\_image
- data\_analysis
- drafts
- flim\_fcs\_using\_olympus\_fluoview\_fv3000\_lsm\_upgrade\_kit
- fluorescence\_lifetime\_measurements\_using\_the\_fluotime\_300
- fluorophores\_and\_samples
- fullindex
- how\_to\_reinstall\_symphotime
- imprint
- interfacing\_time\_resolved\_spectrometer\_fluotime\_300\_microscope\_microtime\_100
- laser\_safety\_instructions
- legal\_information
- lifetime\_component\_decomposition\_phasor\_plot\_analysis
- lsm710
- measurement\_hardware\_instrumentation
- privacy\_policy
- some\_origins\_of\_multiexponential\_decays\_for\_single\_dyes
- supported\_th260\_pc
- synchrotron\_application
- synchrotron\_applications
- tutorials
- video\_tutorials

Copyright of this document belongs to PicoQuant GmbH. No parts of it may be reproduced, translated or transferred to third parties without written permission of PicoQuant GmbH. All information given here is reliable to our best knowledge. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications and external appearances are subject to change without notice.



PicoQuant GmbH  
Rudower Chaussee 29 (IGZ)  
12489 Berlin  
Germany

P +49-(0)30-1208820-89  
F +49-(0)30-1208820-90  
info@picoquant.com  
www.picoquant.com