



Infrared Detection TCSPC System



TCSPC in the Infrared Spectral Range

Based on IDQ ID220 and ID230 InGaAs SPAD Detectors and bh Simple-Tau TCSPC Systems

Detection from 900 nm to 1700 nm

Single-Photon Sensitivity

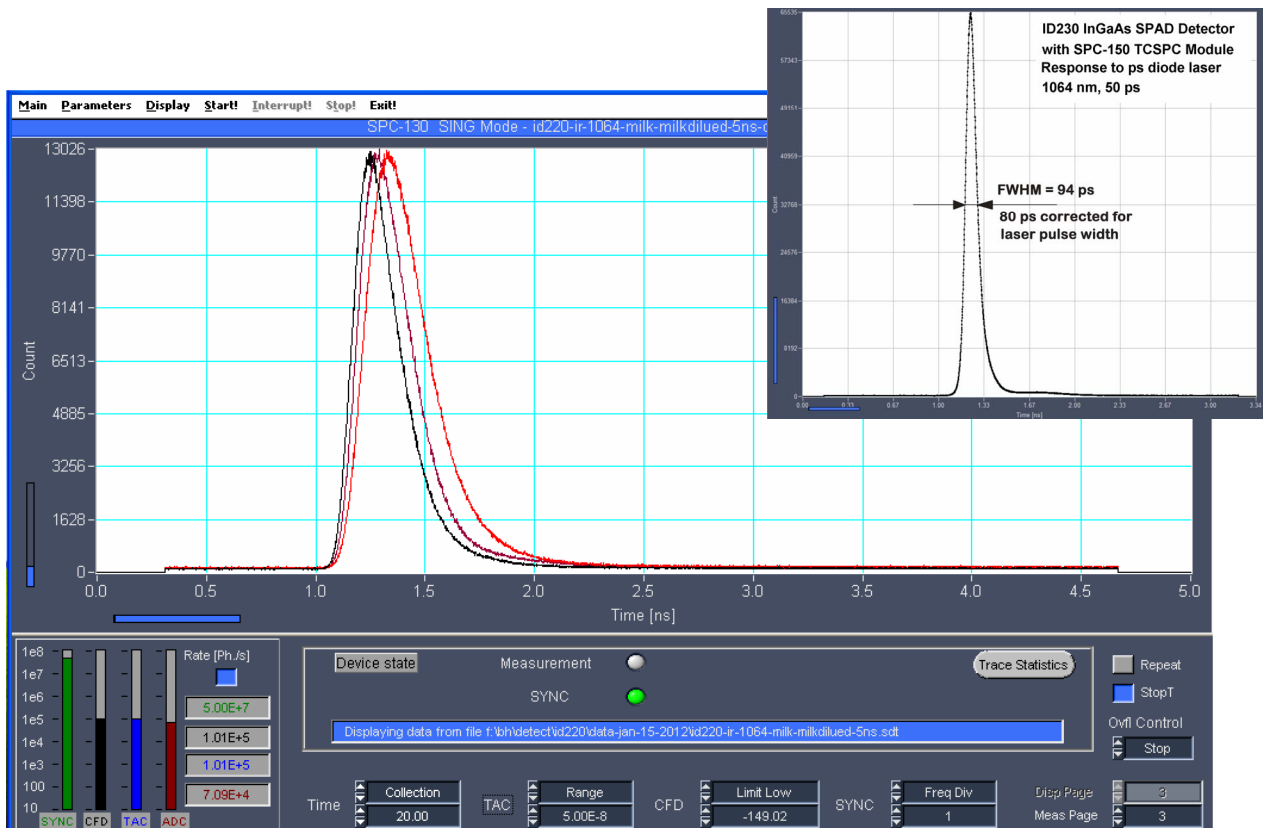
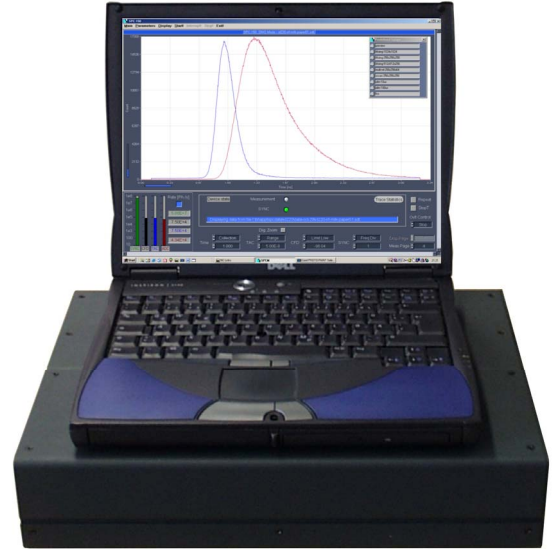
Quantum Efficiency up to 25%

Continuous Operation - No Gating Required

200 ps FWHM IRF Width with ID220

<80 ps FWHM IRF Width with ID230

Dark Count Rate Down to 250 s⁻¹



23 years experience in multi-dimensional TCSPC
More than 1500 TCSPC systems worldwide.

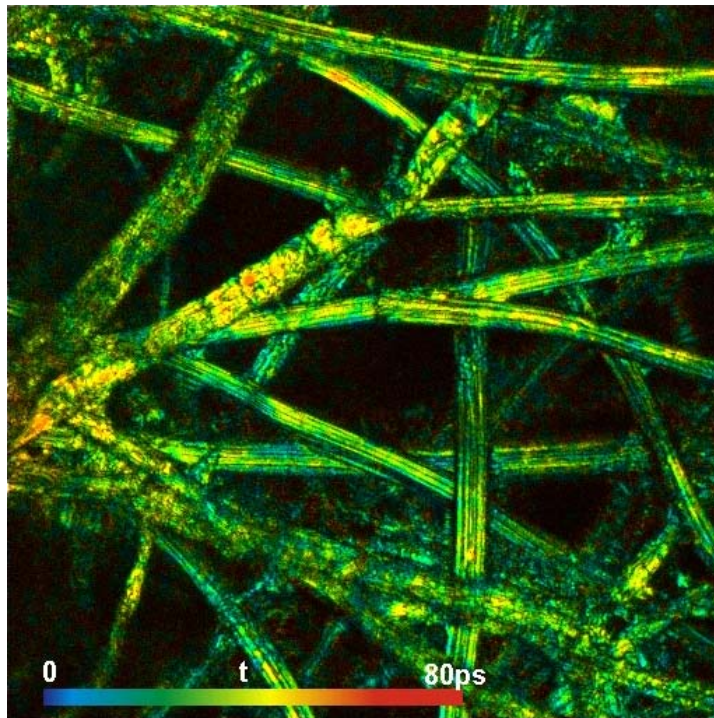
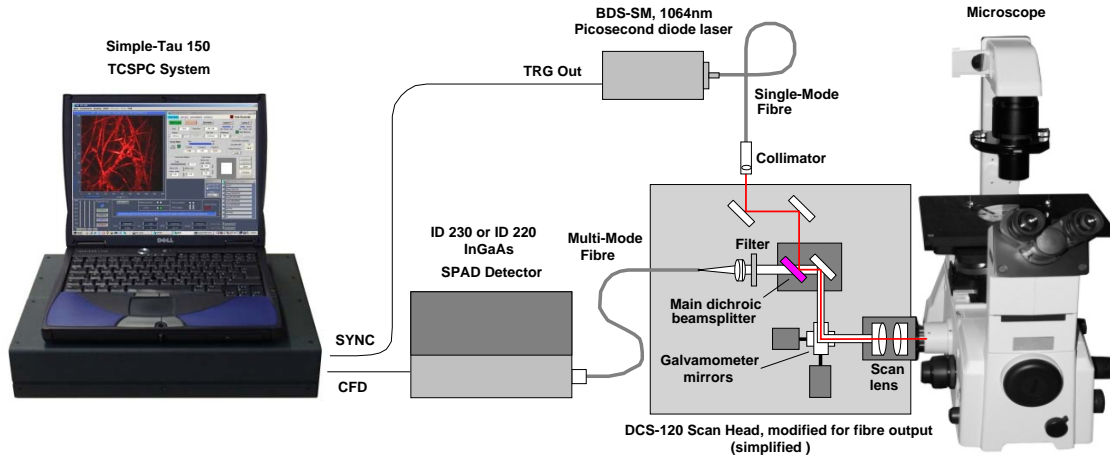




Infrared Detection TCSPC System



Application: Fluorescence Lifetime Imaging up to 1700 nm



Cellulose fibres, stained with IR1061 (Sigma Aldrich). Excitation 1064 nm, detection 1100nm to 1400nm. Colour represents fluorescence lifetime, lifetime range from 0 to 80 ps.

Please see:

1. The bh TCSPC Handbook, 6th ed. (2015), available on www.becker-hickl.com. Please contact bh for printed copies.
2. 80 ps FWHM Instrument Response with ID230 InGaAs SPAD and SPC 150 TCSPC Module, Application Note, www.becker-hickl.com
3. TCSPC at Wavelengths from 900 nm to 1700 nm, Application Note, www.becker-hickl.com



Becker & Hickl GmbH
Nahmitzer Damm 30
12277 Berlin, Germany
Tel. +49 30 787 5632
info@becker-hickl.com
www.becker-hickl.com

Fax -5734



US Representative:
Boston Electronics Corp
Tel: (800) 347 5445 or (617) 566 3821
Fax: (617) 731 0935
www.boselec.com
tcspc@boselec.com



id Quantique SA
Ch. de la Marbrerie 3
1227 Carouge, Switzerland
Tel. +41 22 301 8371 Fax -8371
sales@idquantique.com
www.idquantique.com