



EasyLife™ TCSPC

Lifetime Fluorometer

Take A Close Look At EasyLife™ TCSPC — OBB's New, Amazingly Simple, Powerful, Yet Affordable Solution Machine.

Features and Benefits

- Lifetimes from approximately 20 ps (LED dependent)
- Femtomolar sensitivity
- Powerful analysis software
- Large selection of state-of-the-art pulsed LEDs
- Stable, snap-in pulsed LEDs provide great reproducibility
- Small footprint
- Portable
- Turn-key operation
- Maintenance free
- Great for multi-user lab

Applications

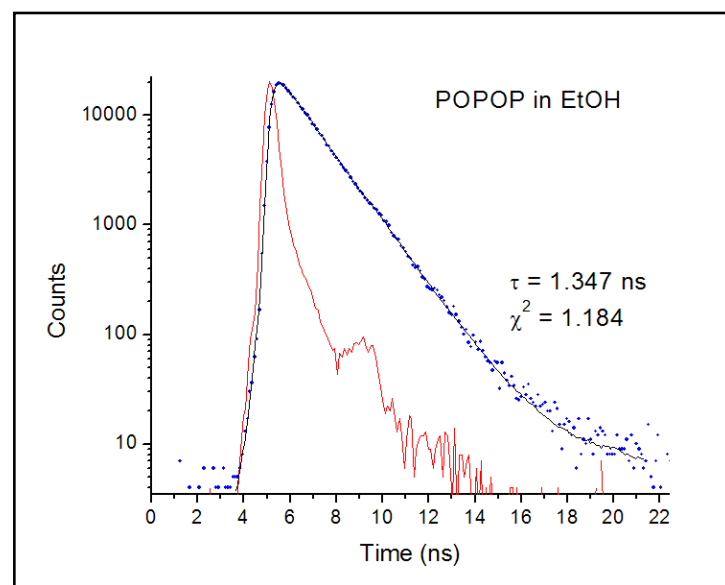
Ideal for use with biological fluorescent probes to study:

- Protein structure and dynamics
- Protein interactions
- Biomembranes
- Liposomes and lipids
- Nucleic acid conformation
- FRET experiments
- Photosynthesis

EasyLife™ TCSPC is also an excellent choice for:

- Very short lifetimes
- Molecular sensors
- FRET validation
- Material quality control
- Quantum dot research
- Laser dyes characterization
- Development of MLC probes
- Photosensitizers research

The EasyLife™ TCSPC is an integrated solution that provides answers that you have been unable to obtain until now! Using the Time Correlated Single Photon Counting technique, the EasyLife™ TCSPC obtains the maximum information about any molecular system, something you simply cannot get with conventional steady state techniques. Whether you are involved in biology, chemistry, pharmaceutical science, food technology, or materials science your work will be greatly enriched by utilizing the EasyLife™ TCSPC.



The TCSPC technique provides a benefit of a high dynamic range, typically 4-5 orders of magnitude of photon count levels, which ensures excellent precision of lifetime determination. Since photon counting is governed by Poisson statistics, the signal-to-noise is highly predictable and data analysis is very robust due to well-defined standard deviations.



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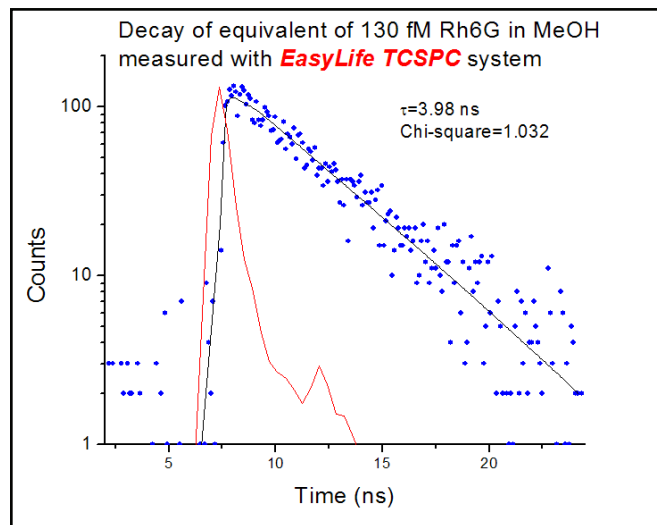
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Specifications

Lifetime Range	100 ps to 3 μ s with ns LED or 45 ps to 3 μ s with ps LD
Sensitivity	100 pM fluorescein or better with ns LED or 140 fM rhodamine 6G or better with ps LD
Excitation	OBB proprietary nanosecond LEDs
Optical Pulse Width	400 ps to 1.5 ns (LED/LD dependent)
Excitation Range Available	185 to 820 nm (LED dependent)
Emission Range	200–650 nm (optional to 900 nm)
Emission Wavelength Selection	By filters
Detection	TCSPC
Typical Acquisition Time	Minutes (sample dependent)
Sample Holder	Single 1 x 1 cm cuvette (micro-cuvettes available)
Software	EasyLife™ TCSPC
Dimensions	15 by 13 inches (38.4 by 33.3 cm)
Lifetime Analysis	1-to-4 exp, global, non-exponential, micelle kinetics, lifetime distribution (ESM, MEM), anisotropy, FRET calculator

Optional Accessories

- Magnetic stirrer
- Manual sheet polarizers
- Liquid nitrogen dewar
- Solid sample holder
- Microcuvette with adapter
- Bandpass filters
- Long-pass filters
- Neutral density filters



For very low concentrations of fluorophore the EasyLife™ TCSPC is a clear winner: fluorescence lifetimes at femtomolar levels can be easily determined.



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