

DCS900PC

DCS900PC Time-Correlated Photon Counting

A time-correlated single-photon counting acquisition unit covers fluorescence decay, phosphorescence and afterglow measurements with selectable time bins and a wide acquisition window.

Best suited to: Lifetime measurements from repeated weak emission signals.



Configuration

Specify the detector pulse output, excitation reference and expected count rate. Choose a window that captures the full decay, then select the bin size; the minimum bin is not the complete instrument response.

Specifications

Published parameters	
Minimum time bin	16 ps
Channels	Up to 65,535
Window at minimum bin	Approximately 1.05 μ s
Maximum bin width	33.5 μ s
Maximum acquisition window	Approximately 2.2 s
Instantaneous saturation count rate	100 Mcps
Dead time	<10 ns
Interface	USB 3.0

Measurement features

- Up to 65,535 acquisition channels.
- Steady-state acquisition support.
- USB 3.0 data connection.

Configuration note

The 100 Mcps figure is the published instantaneous saturation rate, not a recommended continuous lifetime-measurement count rate.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/dcs900pc