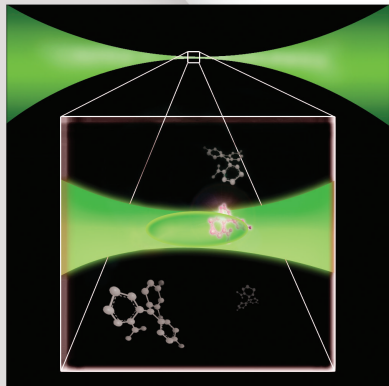


Introducing the QuantumXpert™ FCS Spectrometer

Fluorescence Correlation Spectroscopy (FCS) is a powerful single-molecule detection technique that has been costly and difficult to understand...**Until Now!**

FCS: High-sensitivity Measurements of Molecular Interactions



FCS: Single Molecule Detection
Using Confocal Optics

The QuantumXpert™ is optimized for measurement of biologically and biochemically relevant particles using FCS. FCS provides information about the **molecular size**, **concentration**, and **interactions** of fluorescently-labeled particles in solution.

Use FCS to measure:

- Protein - protein interactions
- Protein - nucleic acid interactions
- Nucleic acid hybridization
- Ligand - receptor binding
- Enzyme kinetics
- Conformational changes

The QuantumXpert™: Fluorescence Correlation Spectroscopy Simplified

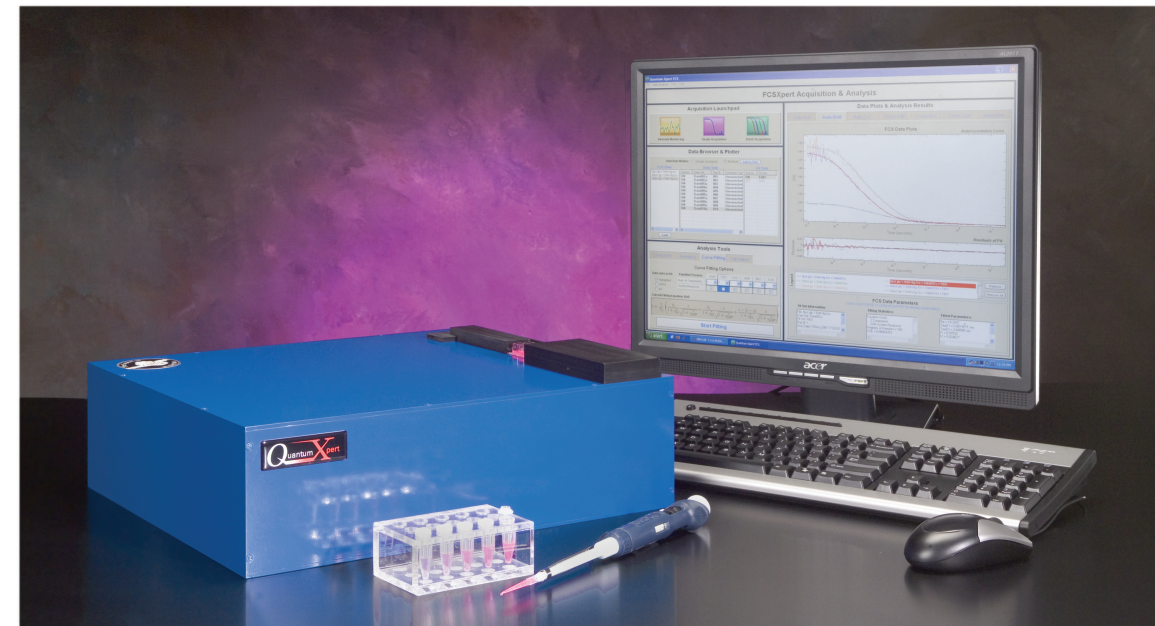
Due to its **fully integrated** design, the QuantumXpert™ incorporates all optical and electronic components, eliminating the bulk, hassle, and maintenance of other FCS instruments. Its **compact design** makes the QuantumXpert™ a convenient addition to any lab.

The Convenient QuantumXpert™:

- Fits on any lab bench
- Does not require a fluorescence microscope
- Does not require a dark room or isolation table
- Does not require any manual hardware adjustments
- Eliminates maintenance: **No alignment whatsoever!**
- Designed for portability
- Controlled by simple, intuitive software for acquisition and analysis **at the push of a button!**

FCS no longer requires extensive technical expertise. Our FCSXpert™ software simplifies FCS data acquisition and analysis: **We put the Xpert in the Box!**

www.QuantumXpert.com



QuantumXpert™ Key Features

Versatile Hardware Configuration

- Simultaneous 491/532 nm laser source (2 x 20mW)
- Computer-adjustable excitation intensity (0 - 2.9 OD)
- Simultaneous three-channel, single-photon acquisition of:
 - 3 Autocorrelation functions
 - 3 Cross-correlation functions
 - 3 Photon counting histograms
- Optional features:
 - Automated sample changer
 - Temperature control (Ambient - 40°C)

Comprehensive Software Package

- Real-time display of single and batch acquisition
- Single and batch correction algorithms for:
 - Background fluorescence
 - Channel cross-talk
- Single and batch curve fitting methods for:
 - Fluorescence correlation data
 - Photon counting histograms
- Customizable data display and export options

www.QuantumXpert.com

For more information:

Sensor Technologies LLC
Park Nine West
910 Boston Turnpike
Shrewsbury, MA 01545

Phone: 508-842-0432

Fax: 508-842-1894

Web: www.QuantumXpert.com

E-mail: info@quantumxpert.com

Quote: sales@quantumxpert.com

Introducing the

QuantumX^{pert}™ FCS Spectrometer!



In the past, Fluorescence Correlation Spectroscopy required **expensive equipment** and **technical expertise**...

Now, FCS is:

Affordable: We dramatically simplified the optics.

Easy to use: We put the Xpert in the box!

www.QuantumXpert.com

Sensor Technologies LLC
Park Nine West
910 Boston Turnpike
Shrewsbury, MA 01545

Finally, FCS made
affordable and
easy to use.

www.QuantumXpert.com

Fluorescence
Correlation
Spectroscopy
Simplified!

QuantumX^{pert}™
by Sensor Technologies

QuantumX^{pert}