

# Introducing the NS MiniTracer

*For quick and easy trace analysis of fluorophores  
in the second near-infrared biological window*

## HIGHLIGHTS

- Sensitive fluorescence measurements
- Optimized for the near-infrared biological window
- Compact design
- Low power consumption
- Integrated software
- World class support

## Applied NanoFluorescence

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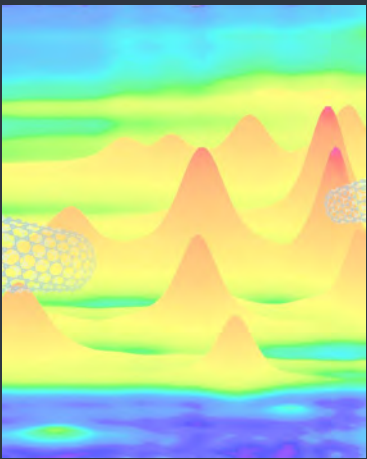
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The NS MiniTracer is the newest and most affordable member of the innovative line of NanoSpectralyzer instruments from Applied NanoFluorescence, LLC.

Its design is optimized for fast, easy, and highly sensitive analytical measurements of fluorophores in the near-infrared biological window (900-1600 nm), with optional absorption measurements over the same wavelength range.

The NS MiniTracer is ideal for detecting and quantifying a variety of near-infrared fluorophores such as single-walled carbon nanotubes (SWCNTs) or quantum dots (QDs) in biological and environmental specimens!



## Custom software provides simple controls and easy to use analysis tools!

Applied NanoFluorescence, LLC (ANF) was founded in 2004 by Prof. R. Bruce Weisman of Rice University to provide innovative optical characterization tools. The NS series of instruments is based on the Weisman laboratory's seminal research in nanoparticle spectroscopy.

The NS MiniTracer is a complete turn-key system including a notebook computer pre-loaded with custom software for instrument control and data analysis. The system carries a full one-year warranty plus free software updates for three years.

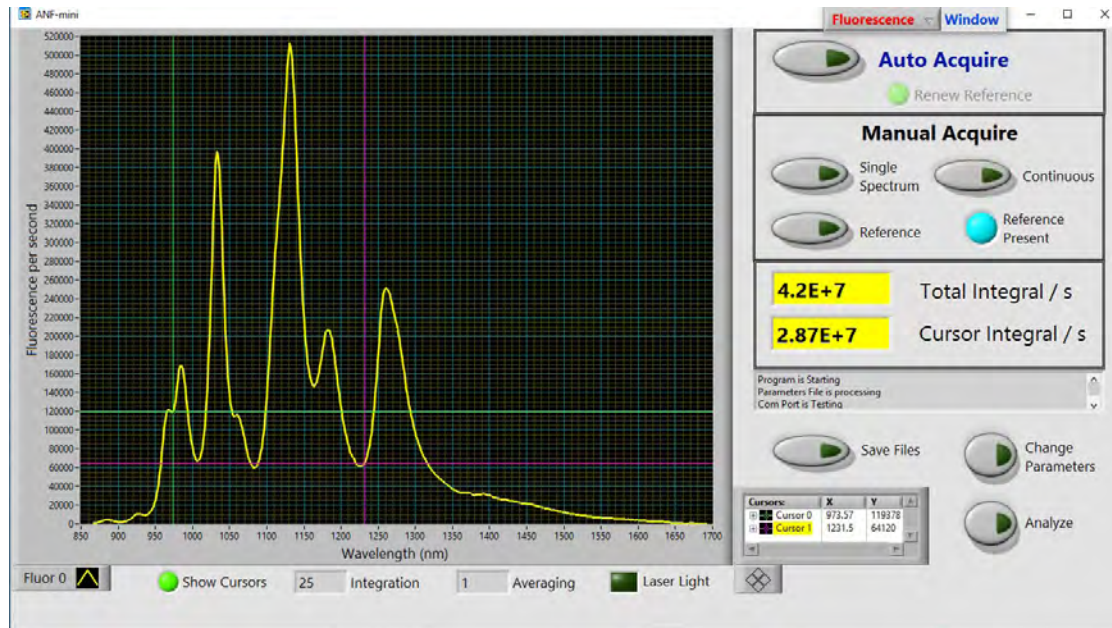
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### Features

- Most affordable fluorometer for near-infrared fluorophores
- Quick measurements with user-friendly software
- Trace detection of sub-nanogram levels (SWCNTs); lowest LOD and LOQ
- Wide dynamic range
- Robust and compact design: footprint only 165 x 215 mm (6.5 x 8.5")
- Near-infrared fluorescence spectra from 900 to 1600 nm
- Optional near-infrared absorption spectra from 900 to 1600 nm
- Rapid sequence acquisition for kinetic studies or eluent monitoring
- 638 nm excitation wavelength

The NS MiniTracer has a robust, compact design that includes one excitation laser and optics for capturing near-infrared fluorescence from dispersed SWCNTs, QDs, and other near-infrared fluorophores. Optimized for the lowest possible optical backgrounds, the NS MiniTracer offers long integration times to provide exceptional detection sensitivity. It is the best instrument available for the selective detection and quantitation of trace fluorophores in environmental and biological specimens.

Operation of the NS MiniTracer is also exceptionally easy and user-friendly. Custom software prompts the user to load blank and sample specimens, and automatically selects optimal data acquisition parameters. After acquisition is complete, a full fluorescence spectrum is displayed along with the total integrated fluorescence signal. This convenient numerical result is used to create project-specific calibration curves for quantitative measurements of any near-infrared fluorophore.

