

The power of small.



### NOVEL TECHNOLOGY

A 1-2 ul sample is pipetted directly onto the measurement surface and held in place by surface tension. Excitation occurs from one of 3 LED sources: UV, Blue or White. Emitted light at a 90° angle is measured using a CCD array detector. The uniquely clean optics of the patented retention system, combined with proprietary signal processing for the white LED applications, enables measurements across a wide range of wavelengths without cumbersome and costly filter changes.

### APPLICATIONS

**Nucleic Acids:** Determine concentration of dsDNA using the **PicoGeen®** Assay, **Quant-iT™** DNA Assay, or **Hoechst 33258** dye and of RNA using **RiboGreen®** dye.

**Proteins:** Determine concentration of proteins using **Quant iT™** Protein assay kit.

**Other:** Additional preconfigured applications include **FITC (fluorescein)**, **Cy-Alexa Fluor dyes**, **B-Phycoerythrin**, **Quinine Sulfate**, **Sulforhodamine**, **4-MU**.

**Custom:** Use the method editor to configure new fluorescent applications.

### SPECIFICATIONS

Sample Size: 1-2 microliters

Light Sources: 3 light emitting diodes (LEDs)

Excitation Maxima of LEDs:

- UV: 365 nm
- Blue: 470 nm
- White: 500-650 nm

Detector Type: 2048-element linear silicon CCD array

Wavelength Range: 400-750 nm

Wavelength Accuracy: 1 nm

Wavelength Resolution: 8 nm (FWHM at Hg 546nm)

Fluorescence Precision: < 5% CV (10 nM fluorescein)

Fluorescence Range: > 4 decades fluorescein

Detection Limit: 1 fmol fluorescein

Measurement Cycle Time: 10-15 seconds

Footprint: 14 cm X 20 cm

Weight: 1.5 kg

Sample Pedestal Material of

Construction:

303 stainless steel and quartz fiber

Operating Voltage: 5 vdc

(all power supplied by USB port)

Operating Power Consumption: 2 W

Standby Power Consumption: 1 W

CE and UL/CSA Approval

**1ul SAMPLE SIZE**

*Patented Retention System*

**10 SECONDS**

*Fast Measurement Cycle*

**NO CUVETTES**

*Easy Preparation*

**FULL SPECTRUM ANALYSIS**

*400nm – 750nm*

**SMALL FOOTPRINT**

*Only 9" x 5"*

**NO FILTER CHANGES**

*Broad Excitation Range  
(UV, Blue, and White LED)*

