

## Thermo Scientific NanoDrop 3300 Fluorospectrometer

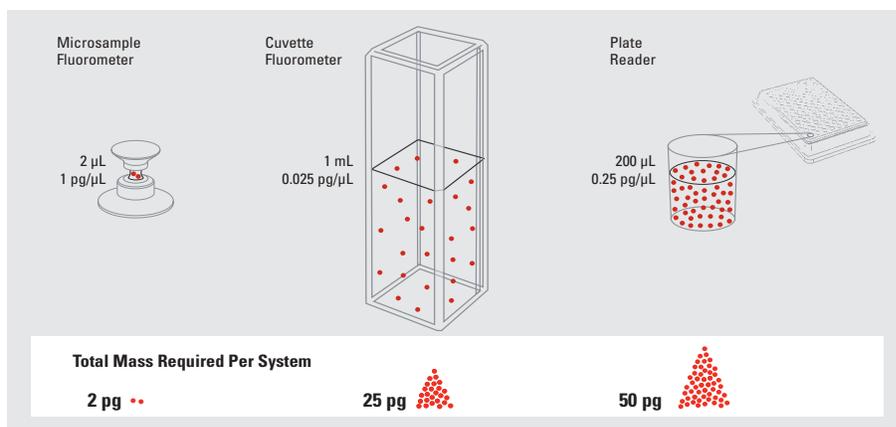
As the industry leader in micro-sample quantitation, Thermo Scientific NanoDrop products meet the needs of today's laboratory scientist with instruments that are smart, simple and robust. We combine our extensive expertise in micro-sample analysis with an in-depth understanding of real-life applications to deliver the latest in UV-Vis and Fluorescence instrumentation.



NanoDrop 3300 patented retention system



NanoDrop 3300 performs ultra-low sample mass detection



dsDNA Detection Limits Using PicoGreen® Assay

### Thermo Scientific NanoDrop 3300

Broad spectrum fluorescent analysis in a versatile, high-performance instrument. The NanoDrop™ 3300 significantly lowers the mass detection limit more than an order of magnitude, compared to conventional fluorometers.

The NanoDrop 3300 is a powerful instrument that offers many benefits:

- Fast measurement time of less than ten seconds
- Sample volumes as small as 1.0  $\mu\text{L}$ , which conserves precious samples for other applications and testing
- Broad excitation range without the need to change filters or use of a monochromator
- Multiple emission profiles from a single sample by exciting multiple fluorophores simultaneously due to broad excitation wavelength range
- Easy to use even for those with limited fluorescence expertise

## Thermo Scientific NanoDrop 3300 Fluorospectrometer

### NanoDrop 3300

Instrument Type:	Fluorospectrometer
Minimum Sample Size:	1 $\mu$ l
Sample Number:	1
Light Sources:	3 light emitting diodes (LEDs)
Excitation Maxima of LEDs:	UV: 365 nm; Blue: 470 nm; White: 460 – 650 nm
Detector Type:	2048-element linear silicon CCD array
Wavelength Range:	400 – 750 nm
Wavelength Accuracy:	1 nm
Spectral Resolution:	8 nm (FWHM at Hg 546 nm)
Absorbance Precision:	< 5% CV (10 nM fluorescein)
Fluorescence Range:	> 4 logs fluorescein
Detection Limit:	< 1 fmol fluorescein
Measurement Time:	2 – 10 seconds
Footprint:	14 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
Software Compatibility:	Windows® 2000 XP and Vista™ (32 bit)

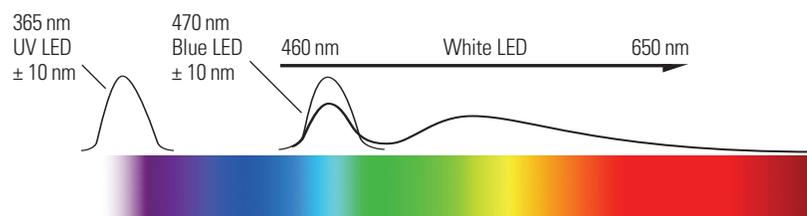
All NanoDrop instruments are approved to CE and UL/CSA standards.

### NanoDrop 3300 Applications

**UV LED** max = 365 nm; equipped with cut filter that eliminates excitation above 400 nm | Example Applications: GFP wt, Hoechst 33258, 4-MU, Q Dots various, Fluoraldehyde OPA, Fluorescamine, FRET

**Blue LED** max = 470 nm | Example Applications: GFP wt, eGFP, FITC-FAM, Alexa 488, PicoGreen, RiboGreen, Alexa 555, B-Phycoerythrin, Q Dot various, SybrGreen, SybrGold, FRET

**White LED** range = 460 – 650 nm; uses virtual filtering | Example Applications: Cy3, Alexa 555, Alexa 568, Cy5, Alexa 647, Sulforhodamine 101, 5-CMTR, Q Dots various, TET, Hex, Molecular beacons



### NanoDrop Products Patented Retention System

All NanoDrop products utilize a unique technology that allows a sample to be pipetted directly onto an optical measurement surface. The system uses inherent surface tension to hold a micro-volume sample in place during the measurement cycle. Once the measurement is complete, the surfaces are simply wiped with a lint-free lab wipe.



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