

The specifications

	NanoDrop 2000 2000c	NanoDrop Lite	NanoDrop 8000
Instrument Type	Spectrophotometer	Spectrophotometer	Spectrophotometer
Instrument Control	Computer software	Local control	Computer software
Minimum Sample Size	0.5 µL	1 µL	1 µL
Sample Number	1	1	up to 8
Pathlength(s)	0.05, 0.1, 0.2 and 1.0 mm, auto-ranging	0.5 mm	0.1, 0.2 and 1.0 mm, auto-ranging
Light Source(s)	Xenon flash lamp	Light emitting diodes	Xenon flash lamp
Excitation Maxima of LEDs		N/A	
Detector Type	2048-element linear silicon CCD array	Silicon photodiode	2048-element linear silicon CCD array
Wavelength Range	190 – 840 nm	260 and 280 nm	220 – 750 nm
Wavelength Accuracy	±1 nm	N/A	±1 nm
Spectral Resolution	≤ 1.8 nm (FWHM at Hg 253.7 nm)	< 8.0 nm	≤ 3 nm (FWHM at Hg 546.1 nm)
Typical Measurement Reproducibility	0.002*	0.002*	0.003*
Absorbance Accuracy**	3% (at 0.74 Abs at 350 nm)	3% (at 1.05 Abs at 260 nm)	3% (at 0.74 Abs at 350 nm)
Absorbance Range (10 mm equivalent)	Pedestal: 0 – 300 Abs Cuvette: 0 – 1.5 Abs	0 – 30 Abs	0 – 75 Abs
Fluorescence Range		N/A	
Lower Limit of Detection	Pedestal: 2 ng/µL (dsDNA) 0.10 mg/mL (BSA) Cuvette: 0.4 ng/µL (dsDNA) 0.01 (BSA)	4 ng/µL (dsDNA) 0.12 mg/mL (BSA)	2.5 ng/µL (dsDNA) 0.15 mg/mL (BSA)
Maximum Concentration	Pedestal: 15,000 ng/µL (dsDNA) 400 mg/mL (BSA)	1,500 ng/µL (dsDNA) 45 mg/mL (BSA)	3,700 ng/µL (dsDNA) 100 mg/mL (BSA)
Measurement Time	< 5 seconds	< 5 seconds	< 20 seconds
Footprint	14 x 20 cm	16 x 11.5 cm	24 x 32 cm
Weight	2000: 2.0 kg 2000c: 2.1 kg	0.8 kg	3.4 kg
Sample Pedestal Material of Construction		303 stainless steel and quartz fiber	
Cuvette Position	Optional stirring: 150 – 850 rpm Heating: 37 ± 0.5°C z-height: 8.5 mm	N/A	N/A
Operating Voltage	12 V (DC)	6 V (DC)	12 V (DC)
Operating Power Consumption	12 – 18 W	18 W	30 W
Standby Power Consumption	5 W	< 2.5 W	6 W
Software Compatibility	Professional versions of Windows® XP (32 bit) Service Pack 2 or later; Windows® Vista™ (32 bit); Windows® 7 (32 bit and 64 bit)	Local control only	Professional versions of Windows® XP (32 bit) Service Pack 2 or later; Windows® Vista™ (32 bit); Windows® 7 (32 bit and 64 bit)

* SD of 10 individual measurements at 0.74 Abs

** Absorbance expressed at Abs/mm measured at 25°C

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

NanoDrop 3300
Fluorospectrometer
Computer software
1 µL
1
N/A
Light emitting diodes
UV: 365 nm, Blue: 470 nm, White: 460 – 650 nm
2048-element linear silicon CCD array
400 – 750 nm
±1 nm
≤ 8.0nm (FWHM at Hg 546.1 nm)
< 5% CV (10 nM fluorescein)
N/A
N/A
> 4 orders of magnitude fluorescein
< 1 fmol fluorescein
N/A
2 – 10 seconds
14 x 20 cm
1.5 kg
303 stainless steel and quartz fiber
N/A
5 V (DC)
2 W
1 W
Professional versions of Windows® XP (32 bit) Service Pack 2 or later; Windows® Vista™ (32 bit); Windows® 7 (32 bit and 64 bit)

