

Micro-Volume UV-Vis Spectrophotometer for Nucleic Acid and Protein Quantitation

The Thermo Scientific NanoDrop 2000 is the only micro-volume spectrophotometer with a patented [sample retention technology](#) that allows for sample volumes as small as 0.5 μL . It offers:

- Direct, easy measurements in less than 5 seconds – just pipette & wipe
- Full spectral output
- Measures DNA, RNA (A260) and Protein (A280) concentrations and sample purity (260/280 ratio)
- Large concentration range (2 ng/ μL – 15,000 ng/ μL dsDNA) without dilutions
- Pre-configured methods for common applications such as Nucleic Acid, Protein A280, Microarray, Proteins & Labels, Bradford, BCA, Lowry and [Pierce 660nm](#) – and more
- User-friendly [software](#) that includes [Custom Methods](#) and data export capabilities
- Simple self calibration check using control fluid – no instrument adjustments
- Low-cost operation – no plates or other consumables



Find out why over 20,000 labs trust this technology.
Ask about our [Free Trial Program](#) today!



Micro-Volume Pedestal

Specifications

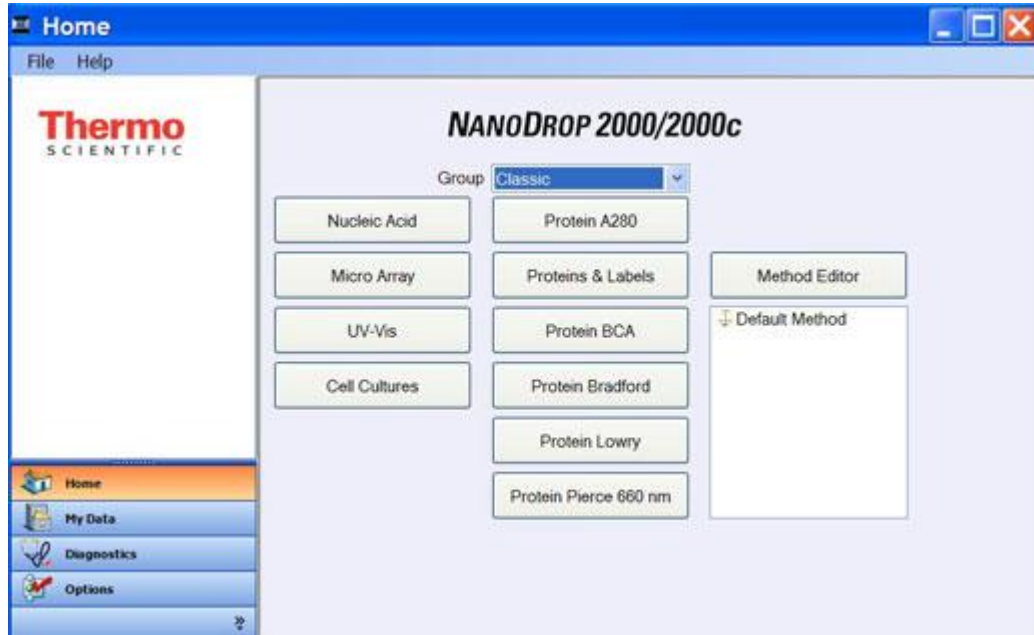
Instrument Type	Spectrophotometer
Minimum Sample Size	0.5 µl
Sample Number	1
Path Length	1 mm (auto-ranging to 0.05 mm)
Light Source(s)	Xenon flash lamp
Detector Type	2048 - element linear silicon CCD array
Wavelength Range	190 - 840 nm
Wavelength Accuracy	1 nm
Spectral Resolution	≤ 1.8 nm (FWHM at Hg 253.7 nm)
Absorbance Precision	0.002 (1 mm path)
Absorbance Accuracy	3% (at 0.74 at 350 nm)
Absorbance Range	0.04 - 300 (10 mm equivalent)
Detection Limit	2 ng/µl (dsDNA)
Maximum Concentration	15,000 ng/µl (dsDNA)
Measurement Time	< 5 seconds
Footprint	14 x 20 cm
Weight	2.0 kg
Sample Pedestal Material of Construction	303 stainless steel and quartz fiber
Operating Voltage	12 vdc
Operating Power Consumption	12 - 18 W (max 30 W)
Standby Power Consumption	5 W
Software Compatibility	Microsoft Windows XP (32 bit) with service pack (SP) 2 or later, Windows Vista (32 bit), Windows 7 (32 bit and 64 bit)

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

Software

Classic NanoDrop Applications

- Nucleic Acid A280
- Micro Array
- Proteins & Labels
- BCA, Bradford, Lowry, Pierce 660 nm
- UV-Vis
- Cell Cultures
- plus Diagnostics



New Applications

- User defined custom methods

New and updated

- Intuitive user interface
- Flexible reporting & data export
- Oligo calculator, units flexibility & more