

# Intelligent analysis with the Thermo Scientific NanoDrop One UV-VIS Spectrophotometers

Thermo Scientific™ NanoDrop™ One Microvolume UV-Vis Spectrophotometers quantify and qualify DNA, RNA, and proteins with only 1-2  $\mu\text{L}$  in seconds. NanoDrop One spectrophotometers are built with Thermo Scientific™ Acclaro™ Sample Intelligence technology that helps you understand the quality of your sample before using it in downstream applications. With contaminant analysis, sample information alerts and on-demand technical support, the Acclaro technology brings a new level of confidence in results, making NanoDrop One the ideal UV-Vis spectrophotometer for life science researchers.

## Pipette. Measure. Know.

- **Fast and easy sample evaluation** of nucleic acids and proteins, no sample dilutions required
- **Small footprint** with local control and a high-resolution, touchscreen interface, saves bench space
- **Preprogrammed applications** designed specifically for life scientists
- **Minimal sample consumption** with microvolume measurements using only 1-2  $\mu\text{L}$  of sample
- **No cuvettes or slides needed** with patented pedestal design and sample-retention system
- **Improved measurement capabilities** with extended dynamic range and auto-range pathlength capability
- **Enhanced software features** for performing kinetics experiments and custom methods
- **Improved productivity** with on-board application-based software and auto-measure features that simplify workflows
- **Optimized sample analysis** with Acclaro Sample Intelligence technology featuring contaminant identification, sample information alerts and on-demand technical support
- **Enhanced connectivity and data management** via USB, Ethernet, Bluetooth and Wi-Fi options
- **Optional cuvette position** for measuring dilute solutions and performing temperature sensitive experiments



Hardware features	NanoDrop 1000	NanoDrop 2000/2000 <sup>c</sup>	NanoDrop One/One <sup>c</sup>
Microvolume sampling	√	√	√
PC Software	√	√	√
Fast and Easy to use 'pipette, measure, clean"	√	√	√
Xenon flash lamp light source	√	√	√
Dynamic range (ng / $\mu$ L dsDNA)	2 - 3,750	0.4 - 15,000	0.2 - 27,500
No sample carryover	√	√	√
Measurement time (s)	10	5	typical 6
Multiple auto-range pathlengths	2	4	5
Wavelength range (nm)	220-750	190-840	190-850
Spectral resolution (nm, FWHM)	<3 at 546nm	<1.8 at 254nm	<1.8 at 254nm
Cuvette option with stirring and heating		√	√
Spectrograph with enhanced UV and stray light control		√	√
Spectrograph with native low-stray light and deep UV detection			√
Precision short-pathlength control			√
Stand alone instrument with local control			√
High-resolution, adjustable glove-compatible touchscreen			√
Enhanced connectivity: Ethernet, Wi-Fi and Bluetooth			√
Cuvette can be used with arm up or down			√

Software features	NanoDrop 1000	NanoDrop 2000/2000 <sup>c</sup>	NanoDrop One/One <sup>c</sup>
Nucleic Acid A260	√	√	√
Nucleic Acid purity ratio A260/A280, A260/A230	√	√	√
Microarray	√	√	√
Protein A280	√	√	√
Protein Purity ratio A260/280	√	√	√
Protein colorimetric assays: BCA and Bradford	√	√	√
Proteins and Labels	√	√	√
UV-Vis	√	√	√
Cell Culture OD600	√	√	√
Kinetics measurements		√	√
Create and save custom methods		√	√
Protein colorimetric assays: Lowry and Pierce 660		√	√
Auto-Blank and Auto-Measure capability			√
Protein Editor for adding user protein			√
Protein A205 method			√
Preconfigured custom methods for nanoparticles, chlorophyll and hemoglobin			√
Acclaro Embedded Technical support			√
Acclaro Onboard Learning			√
Acclaro Contaminant Identification			√
Acclaro Sample Integrity: digital image processing			√

Find out more at [thermofisher.com/nanodrop](https://thermofisher.com/nanodrop)

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