Accelerate Discovery 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 µL in seconds. These next-generation NanoDrop instruments are built with Thermo Scientific™ Acclaro™ Sample Intelligence technology that helps you understand the quality of your sample before using it in downstream applications, bringing you one step closer to discovery. 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.

Intelligent Microvolume Analysis
Pipette. Measure. Know.

Fast and easy sample evaluation of nucleic acids and proteins with "pipette, measure, clean" workflow and no sample carryover

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 µL 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

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Hardware features	NanoDrop 1000	NanoDrop 2000/2000c	NanoDrop One/Onec
Microvolume sampling	√	√	√
PC Software	√	√	√
Fast and Easy to use 'pipette, measure, clean"	√	√	√
Xenon flash lamp light source	√	√	√
Dynamic range (ng / µL 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 2000/2000c	NanoDrop One/Onec
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	√	√	√
Named user access control	√	√	√
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			√

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A Thermo Fisher Scientific Brand

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