

Thermo Scientific NanoDrop One Microvolume UV-Vis Spectrophotometers

Intelligent microvolume analysis

Thermo Scientific™ NanoDrop™ One microvolume UV-Vis spectrophotometers quantify and qualify DNA, RNA, and proteins in seconds using only 1–2 μL of sample.

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.



Easily transfer data from NanoDrop One standalone instrument to your computer via a USB device.



Pipette. Measure. Know.

Expect NanoDrop reliability and enhanced performance with these NanoDrop One advantages:

Fast and easy evaluation of nucleic acids and proteins with Auto-Measure and pre-programmed applications

Modern standalone design with local control and high-resolution touchscreen interface saves bench space

Accurate measurements up to 27,500 ng/ μL (dsDNA) with extended auto-range pathlength technology

No consumables needed— pipette directly onto the pedestal sample-retention system

Enhanced connectivity with data transfer via USB, Ethernet, Bluetooth® and Wi-Fi options; PC software available for data management

Optional cuvette position for measuring dilute solutions and performing temperature sensitive experiments

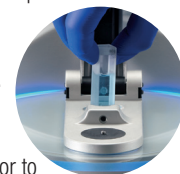
Know More with Acclaro Sample Intelligence Technology

Make informed decisions on sample suitability for your application. Acclaro technology offers enhanced sample analysis with:

- Contaminant identification and corrected results
- Instant feedback about sample quality with on-demand technical support and guided troubleshooting
- Embedded sensor and digital image analysis that ensures measurement integrity

Add a Cuvette Position

The Thermo Scientific™ NanoDrop™ One^C spectrophotometer adds experimental flexibility and increases the dynamic range. Use cuvettes to measure dilute samples and optical density of bacterial cultures or to perform kinetics experiments. Includes cuvette temperature control and stirring.



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Technical Specifications

Instrument Control	Built-in touchscreen	
Minimum Sample Volume	1 μ L	
Limit of Detection	dsDNA	Pedestal: 2.0 ng/ μ L Cuvette: 0.2 ng/ μ L
	BSA (IgG)	Pedestal: 0.06 (0.03) mg/mL Cuvette: 0.006 (0.003) mg/mL
Maximum Concentration	dsDNA	Pedestal: 27,500 ng/ μ L
	BSA (IgG)	Pedestal: 820 (400) mg/mL
Measurement and Data Processing Time	8 seconds	
Measurement Repeatability ¹	Typical: 0.002 A (1.0 mm path) or 1%CV, whichever is greater	
Wavelength	Range	190–850 nm
	Accuracy	\pm 1 nm
Photometric	Range (10 mm equivalent)	Pedestal: 0–550 A Cuvette: 0–1.5 A
	Accuracy ²	3% at 0.97 A, 302 nm
Resolution (Spectral Bandwidth)	\leq 1.8 nm (FWHM at Hg 254 nm)	
Pathlength	0.030 to 1.0 mm auto-ranging	
Light Source	Xenon flash lamp	
Detector	2048-element CMOS linear image sensor	
Dimensions (W \times D \times H)	20 \times 25.4 \times 32.3 cm (8 \times 10 \times 12.7 in.)	
Weight	3.6 kg (7.9 lbs.)	
Operating Voltage	12 V (DC)	
Power Consumption	Operating: 12–18 W Standby: 5 W	
Stirring (cuvette only)	9 speeds	
Temperature Control (cuvette only)	37 $^{\circ}$ C	

¹ SD of 10 individual measurements at 0.97 A

² Absorbance expressed at Abs/mm at 25 $^{\circ}$ C

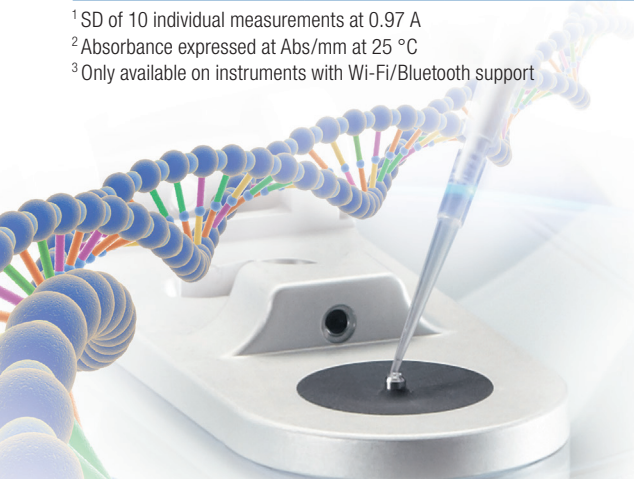
³ Only available on instruments with Wi-Fi/Bluetooth support

On-Board Control	Operating System	Android™
	CPU	Quad Core ARM® Cortex™-A9 Processor
	Display	7-inch, 1280 \times 800 high-definition color display
	Touchscreen	Multipoint capacitive touch
	Gesture Recognition	Single point, single point hold, swipe and pinch
	Glove Compatibility	Compatible with lab gloves
	Internal Storage	32 GB flash memory
Audio	Built-in speaker	
Connectivity	Three USB-A ports, Ethernet, Bluetooth and Wi-Fi ³	
PC Software Requirements	Windows® 7 and 10, 64 bit	
Accessory Support	DYMO® LabelWriter® 450 printer, Bluetooth keyboard, mouse and barcode reader	
Applications Support	Nucleic Acid A260, A260/A280, A260/A230 and Labeled Nucleic Acids; Protein A280 and A205, Protein Pierce 660, Protein Bradford, Protein BCA, Protein Lowry, Labeled Proteins, OD600, Kinetics, UV-Vis, and Custom Methods	
Language Support	 Chinese French German Japanese Korean Polish Spanish English	

Ordering Information

Instruments	Fisher Catalog No.
NanoDrop One spectrophotometer (<i>Pedestal position only</i>)	13400518 ⁴
NanoDrop One ^c spectrophotometer (<i>Pedestal and cuvette positions</i>)	13400519 ⁴
Accessories and Consumables	Fisher Catalog No.
NanoDrop One Productivity kit (<i>Contains: 0.2–2.0 μL pipette, screen wipe, USB device, PR-1 kit, and PV-1 solution</i>)	13400516
NanoDrop One ^c Productivity kit (<i>Contains: 0.2–2.0 μL pipette, screen wipe, USB device, PR-1 kit, PV-1 solution, stir bars, and quartz cuvette</i>)	13400517
DYMO LabelWriter 450 printer with labels	13400520
PR-1 Reconditioning Compound kit	PR1KIT
PV-1 Performance Verification solution	13400515

⁴ Wi-Fi model not available in all countries. Please contact your NanoDrop distributor to confirm the correct part number in your region.



For research use only. Not for diagnostic purposes.
All NanoDrop instruments are approved to CE and UL/CSA.

www.fishersci.com/spectroscopy

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