

# NanoDrop Lite Plus UV Microvolume Spectrophotometer

## Affordable choice for fast, reliable measurements

Quickly and easily assess sample concentration and purity ratios with the Thermo Scientific™ NanoDrop™ Lite Plus Microvolume Spectrophotometer. Designed for routine measurements of nucleic acid and protein samples using only 1-2  $\mu\text{L}$ , the NanoDrop Lite Plus Spectrophotometer delivers exceptional accuracy and reproducibility in an easy-to-use, affordable package. This entry-level model is ideal for scientists that prefer the trusted NanoDrop technology, but do not need the advanced capabilities or full spectral data of the Thermo Scientific™ NanoDrop™ One/One<sup>C</sup> instruments.

The NanoDrop Lite Plus instrument is a valuable teaching tool and ideal for quality check measurements in busy research labs as well. The system measures purified DNA, RNA, and protein concentration up to 30 Abs and calculates critical A260/A280 and A260/A230 purity ratios. Our pioneering sample-retention technology eliminates the need to dilute highly concentrated samples making measurements easy. Simply pipette your sample directly onto the optical measurement pedestal, measure, and wipe clean. Built-in control simplifies operation, so even new users can quickly get results.



Simply pipette, measure, and clean!

### Confidence in your results

- **Standard measurements**
  - Measures purified DNA, RNA, and protein concentration up to 30 Abs
    - Up to 1,500 ng/ $\mu\text{L}$  dsDNA
    - Up to 1,200 ng/ $\mu\text{L}$  RNA
    - Up to 45 mg/mL BSA
  - Calculates critical A260/A280 and A260/A230 purity ratios
- **Fast, accurate measurements** from only 1-2  $\mu\text{L}$ —saves precious samples, no waste
- **Sample retention technology** uses surface tension to hold the sample in place—no cuvettes or expensive consumables are needed
- **Intuitive interface**
  - Built-in touchscreen operation
  - No computer required
- **Data storage and transfer**
  - Last 1000 measurements saved locally; export data to a USB device
- **Optional printer** available for freezer-compatible labels (not included)
- **Compact and portable**—fits on any lab bench, ready for your next experiment
- **Affordably priced**—stretch tight budgets

### Reach your goals

- Academic teaching
  - Educate students on molecular biology principles and experimental techniques on an industry-leading instrument
- Academic research labs
  - Facilitate your research and publication of your novel research findings
- Biotech start-ups
  - Accelerate the development of new products

## NanoDrop Lite Plus instrument specifications

Description	NanoDrop Lite Plus Spectrophotometer
Instrument Control	Local control
Minimum Sample Size	1 $\mu$ L
Pathlength(s)	1.0 mm and 0.2 mm (automatically adjusting)
Light Source(s)	Xenon flashlamp
Wavelength Range	230 nm, 260 nm, 280 nm
Wavelength Accuracy	$\pm$ 1 nm
Typical Measurement Repeatability	Typical: 0.002 A (1.0 mm path) or 1%CV, whichever is greater*
Absorbance Accuracy**	3% at 0.97 A, 302 nm, 23 $\pm$ 2C $^{\circ}$
Absorbance Range (10 mm equivalent)	0.04–30 Abs (10 mm equivalent)
Lower Limit of Detection	2.0 ng/ $\mu$ L (1.6 ng/ $\mu$ L) dsDNA (RNA) 0.06 mg/mL (0.03 mg/mL) BSA (IgG)
Maximum Concentration	1,500 ng/ $\mu$ L (1,200 ng/ $\mu$ L) dsDNA (RNA) 45 mg/mL (21 mg/mL) BSA (IgG)
Measurement and Data Processing Time	$\leq$ 5 seconds
21 CFR Part 11 Compliance	No
Footprint	27 cm x 22 cm x 22 cm (wdh)
Weight	2.7 kg (no printer), 3.2 kg (printer)
Sample Pedestal	303 stainless steel and quartz fiber
Operating Voltage	12 V (DC)
Operating Power Consumption	18 W
Standby Power Consumption	< 3 W

\* SD of 10 individual measurements at 0.74 Abs

\*\* Absorbance expressed as Abs/mm measured at 25  $^{\circ}$ C



### Service and support

Enjoy peace of mind and maximum uptime with world-class service and support solutions. Count on our global team for superior quality service that keeps your lab productive and running smoothly.

Choose the NanoDrop instrument that's right for your lab needs.



**NanoDrop One/One<sup>+</sup>**

Improve sample confidence with contaminant identification and data integrity compliance



**Thermo Scientific<sup>™</sup> NanoDrop<sup>™</sup> Eight**

Advanced sample confidence eight samples at a time

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