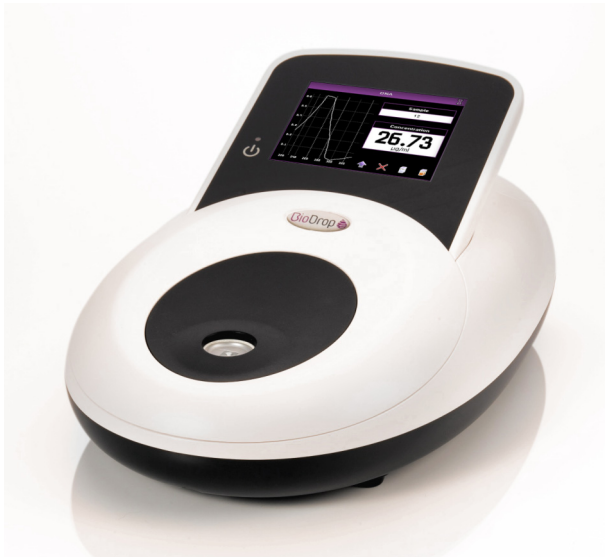
BioDrop μLITE

Fresh Thinking for Micro-Volume Measurement

BioDrop μLITE is the ideal solution for life scientists for whom speed and accuracy in micro-volume measurements are required rather than broad measurement range.



dsDNA Measurement	Minimum Volume	Detection Limit	Maximum Concentration
BioDrop μLITE	0.5 μL	1 ng/μL	2,500 ng/μL

Product Overview

BioDrop μLITE has a unique in-built sampling port dedicated to micro-volume measurement. The port is easy to use: simply pipette 0.5 μL or more in the center and measure. Cleaning the port is easy, simply wipe with lint-free tissue and the BioDrop μLITE is ready to make the next measurement.

BioDrop μLITE is quick and easy to use. It has a large capacitive colour touch screen with on board software for data acquisition and analysis. Pre-programmed methods for DNA, RNA, oligos and proteins in the on-board software reduce the time from measurement to results. In addition, data generated using the on-board software can be stored internally or transferred using a USB memory stick. Alternatively, both the PC-only and standalone instruments can be controlled using a PC and BioDrop Resolution Software. Users can also choose an optional built-in thermal printer for maximum flexibility.

BioDrop μLITE has an in-built sample port with no moving parts. Because the pathlength doesn't change, the instrument provides excellent measurement reproducibility. Measurements made with the BioDrop μLITE are also highlyaccurate because the pathlength is specified to +/- 5 μm.

Best in class specifications!

- **First of its kind** in-built sampling port for micro-volume measurements
- **Exceptional pathlength accuracy** – with no moving parts, the in-built sample port pathlength is fixed at 0.5 mm and specified to +/- 5 μm
- **Fast operation** – switch on and measure a DNA sample in <4 seconds with only 4 screen touches
- Large, high resolution, capacitive colour **touchscreen** on standalone instrument
- The in-built sample port is **easy to clean** and maintain
- **USB** connectivity for easy PC connection or data export
- BioDrop Resolution Life Science **PC software** for powerful analysis

BioDrop Resolution Life Science Software

- Dedicated life science methods for determining the concentration and purity of DNA, RNA, oligos and protein as well as the ability to create and save customized methods
- Fast and easy to use with intuitive modules for quick measurements, wavelength scanning, quantitation and kinetics
- Pre-programmed with BioDrop pathlengths for quick calculations
- Optional BioDrop Resolution CFR module for laboratories requiring full 21 CFR part 11
- Familiarity of the latest Microsoft Windows® operating systems

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Technical Details

	BioDrop μLITE	BioDrop μLITE PC
Display	5.7" colour capacitive touchscreen	None
Minimum Volume (dsDNA)	0.5 μL	
Maximum Concentration (dsDNA)	2,500 ng/μL	
Detection Limit (dsDNA)	1 ng/μL	
Detector	1024 element CCD array	
Light Source	Pulsed Xenon lamp with 3 year warranty	
Spectral Bandwidth	5 nm	
Wavelength Range	190 – 1100 nm	
Wavelength Accuracy	± 2 nm	
Wavelength Reproducibility	± 1 nm	
Stray Light	<0.5%T at 220 nm and 340 nm using $NaNO_2$	
Absorbance Range	- 0.3A to 2.5A, 0 to 199%T	
Absorbance Accuracy	±0.005A or 1% of the reading, whichever is the greater at 546 nm	
Absorbance Reproducibility	±0.003A (0 to 0.5A), ±0.007A (0.5 – 1.0A)	
Noise	0.005A peak to peak 0.002A RMS	
Output	USB port for USB memory stick	USB port for PC connection
Power input	90-250 V, 50/60 Hz, Max 30 VA	
Dimensions	420 x 260 x 185 mm	
Weight	approx. 3 kg	
Life Science PC Software	DNA, RNA, oligo, dye labelling, T_m calculation, direct UV and colorimetric protein methods	
Software Languages (on-board software)	English, French, German, Spanish	English

Ordering Information

Part number	Description
80-3006-50	BioDrop μLITE
80-3006-51	BioDrop μLITE and built-in printer
80-3006-52	BioDrop μLITE PC
80-7001-33	BioDrop Resolution CFR PC Software

Distributors worldwide

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