



## **PICO200 Microliter Spectrophotometer**

The **Picodrop** can be used by any Life Scientist working with DNA, RNA, Proteins, Microarray dyes and Cell Cultures. Most Molecular Biology assays require an initial assessment of sample concentration and purity before subsequent dilutions and downstream processing can commence. Typically samples have been measured in cuvettes requiring significant dilution of sample before sufficient volume can be produced to allow measurement in a 10mm cuvette (typically 150ul-1ml). The introduction of microliter spectrophotometers has enabled the user to test samples directly using only 2ul thereby avoiding the need to dilute sample

**Includes user designed programs and general spectrophotometry applications, including kinetics, providing ultimate flexibility**

**Unique disposable pipette tip only 2µl sample volume required offering sample containment and recovery thereby reducing possible lab contamination and sample crossover. Zero cross contamination – Easily recover 100% of sample**

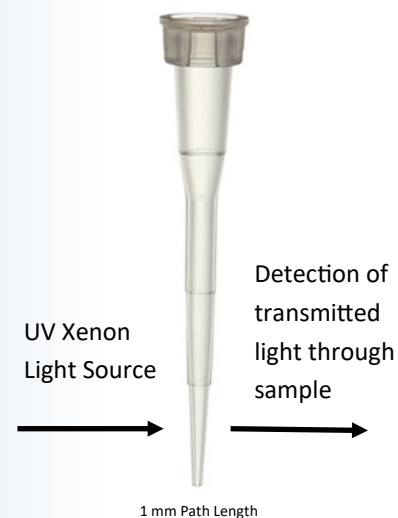
**Built in screen for ease of use and clear display of results and USB connection to PC for network connectivity, if required.**

**Flexible data export options including Built-In Printer, SD card and Wireless Bluetooth capability**

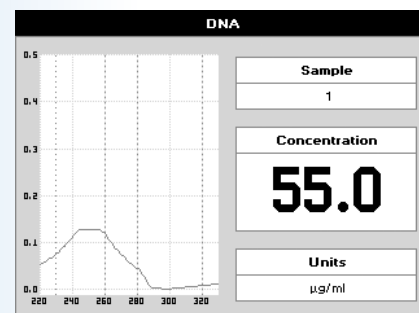
**Low operating costs – No servicing required - No cleaning necessary after each sample measurement**

## Specifications

Sample size	2.0ul, absolute volume not critical, max. 10ul. Accuracy of pipetting not critical
Path length	1mm
Cleaning necessary after each sample	NO
Sample Recoverable	YES, 100%
Sample Carry-Over and Cross Contamination	NONE
Sample platform maintenance	No maintenance required, protein resistant
Sensitivity to Ambient Temperature	NO, liquid retained in tip and increased volume may be used in extreme conditions e.g. field based
Calibration Required	NO calibration required as auto-calibrating **no moving parts and path length fixed by tip.
Light Source	Pulsed Xenon
Automation	YES, compatible with most P10 tip liquid handling robots
Detector Type	UV coated CCD with 2048 pixels
Wavelength range	220 - 950 nm
Includes Kinets functionality with cuvette	Yes
Wavelength resolution FWHM at Hg 546 nm	3nm
Absorbance Precision	0.003 absorbance (1mm path)
Absorbance Accuracy	1% (at .76 absorbance at 257 nm)
Absorbance Range	0.0 - 25 Absorbance Units
Detection Limit	2 ng/microlitre (dsDNA)/ 0.1ng/ul (dsDNA) with Cuvette holder
Maximum Concentration	1200 ng/microlitre (dsDNA)
Measurement Cycle Time	3 seconds
Dimensions (wxdxh)	14cm x 27cm x 38cm
Sample Platform(s)	Polymer UVpette Disposable pipette tip OR INTERCHANGEABLE 10mm Cuvette Holder (£900 extra cost)
Operating Power Consumption	6W
Built-In printer	Yes (optional)



**Unique Patented Picodrop  
In-Tip sample containment**



## Ordering Information

Cat. No.	Description	Pack
P200P	Picodrop 200 Microliter Spectrophotometer	Each
UVTIPB	Racks of 96 UV Tips for the Picodrop 200	50 Racks
UVTIPG	Bags of 1000 unracked UV Tips for Picodrop 200	10 Bags

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