

# 2µl

Precision Analysis

Picodrop's unique in-tip detection method uses a patented design which allows the user to simply pipette a 2µl sample and place the pipette tip directly into the Picodrop spectrophotometer for analysis.

The µl UVpette pipette tip combines optical precision with ease of use, removing the need for a cuvette, capillary or transfer to a pedestal.

DNA - RNA - Proteins - Microarrays

## About Picodrop

Picodrop uses a patented design which allows you to simply pipette your sample and place it directly into the Picodrop spectrophotometer using the unique UVpette pipette tips, without the need for a cuvette or capillary.

Maintain the highest levels of user and sample protection and eliminate the risk of cross contamination or carry-over on the sample platform.

The advanced polymer technology used to make the UVpette tips ensures precise UV absorption measurements between 220nm and 950nm, making it ideal for applications involving nucleic acid, protein or microarray dye concentration determination.

Two models are available, the Pico100 for a small footprint and price; controlled through a powerful PC based software.

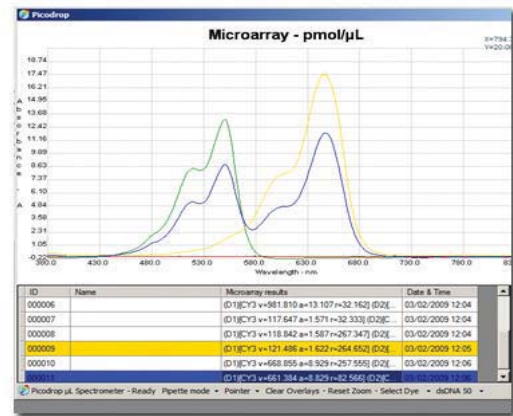
For a comprehensive stand-alone solution the Pico200 provides a built-in screen with additional options including printer, SD Card slot and Bluetooth PC communication

- Only 2µl sample volume needed
- No Cuvette or Capillary required
- No cleaning necessary
- Unique disposable pipette tip
- Complete sample containment - Zero risk
- 3 second read time
- Easily recover 100% of sample
- Zero cross-contamination
- Wide Wavelength range 220-950nm
- Interchangeable Sample Holders
- No moving parts - low maintenance cost
- No regular recalibration - low running cost

## UVpette tips & how it all works...

The key to developing Picodrop was the development of the unique optical lens configuration combined with the precision manufactured UV transmissive polymer used to make the UVpette tips.

Unlike conventional plastics, the UVpette tips allow the transmission of UV down to 230nm thereby making them perfect for DNA and RNA studies.



Through a friendly and intuitive user interface the Pico100 allows the user to easily switch between protocols for Nucleic acids, Proteins and Microarrays. The software automatically calculates all the values required including concentration, purity ratios and dye concentrations. Each sample can be given a unique reference and resulting data stored to your personal directory in MS Excel format, for later analysis.

The choice of using the customised EXCEL electronic pipette or the manual Gilson P10 pipette, ensures you can maximise throughput without compromising reproducibility or quality of results.

# Specifications

	<b>Pico100</b>	<b>Pico200</b>
Path Length	1mm to 10mm	1mm to 10mm
Sample Volume	typically 2µl	typically 2µl
Lamp (av. life 6yrs)	Pulsed Xenon	Pulsed Xenon
Detector Type	CCD	CCD
Photometric Linearity	< 1% @ 546nm	< 1% @ 546nm
Photometric Range (10mm equiv.)	0.02 - 22 A.U.	0.02 - 22 A.U.
Wavelength Range P100	230-850nm	220-950nm
Type of Control	PC Control (MSWindows)	Onboard Software & Screen
Wavelength Reproducibility	1nm	1nm
Spectral Bandwidth	3nm	5nm
Absorbance Precision	0.003 (1nm)	0.003 (1nm)
Detection Limit (DNA) - tip	3 - 1200ng/µl	3 - 1200ng/µl
Detection Limit (DNA) - cuvette	0.4 - 120ng/µl	0.4 - 120ng/µl
Detection Limit (BSA) - tip	0.1 - 25mg/ml	0.1 - 25mg/ml
Detection Limit (BSA) - cuvette	0.02 - 2.5mg/ml	0.02 - 2.5mg/ml
Read time	3 seconds	3 seconds
Dimensions (cm)	16x28x12	26x39x10
Weight	2.5 kg	4.2 kg
Printing	via PC	Integrated Printer or via PC
Digital Output	Ethernet port to PC	USB, Bluetooth, SD card
Robotic Control	RS232	None
Software	PC format	Onboard & PVC export
Protein settings	direct & indirect	Direct & Indirect



 **Pico200**

## Interchangeable Cuvette Holder

As an optional extra we offer a 10mm cuvette holder which is compatible with all standard cuvettes



The cuvette holder does not require a dark environment and is compatible with standard cuvettes from 10mm to 1mm pathlength. Additionally, the cuvette holder can be used with the Hellma tray cell for microvolume applications.



## Order Info

**Ref. PICOPE**

Pico100 Picodrop Spectrophotometer complete with UVpette sample platform to accept UVpette pipette tips. Supplied with PC software, USB2 port, 1x96 boxed UVpette 10 microlitre pipette tips and pipette. PC required.

**Ref. P200**

Pico 200 Picodrop Spectrophotometer complete with UVpette sample platform to accept UVpette pipette tips. Supplied with built-in Printer or Bluetooth or SD card reader, 1x96 boxed UVpette tips and 0.5-10ul pipette.

**Ref. UVTIPB**

UVpette tips 96 racked  
10 microlitre UVpette pipette tips supplied in 96 racked format.

**Ref. UVTIPG**

UVpette tips x 2000 bag  
10 microlitre UVpette pipette tips supplied loose

**Ref. PCAL01-GLP**

UV/Vis Wavelength Standard For the highest level of accuracy use our unique NIST traceable certified wavelength standard.

**Ref. CUV01 for PICO100 and CUV02 for PICO200**

Interchangeable 10mm Cuvette Holder For the greatest flexibility and use in multiple applications simply change the sample holder.

**Ref. WARRANTY01**

1 year Extended Warranty  
The extended warranty covers the cost of all parts and labour in the event that the Picodrop Spectrophotometer develops a fault.

## Contact Us



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