

microlitre spectrometry in a pipette tip

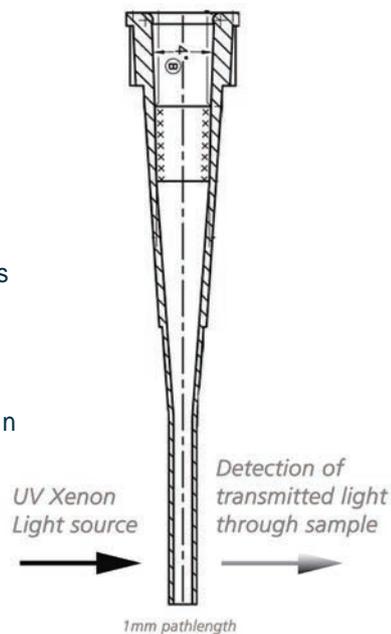


One drop is enough

- Sample volumes down to 1µL
- No dilutions necessary
- Kinetic measurements in both tip or cuvette
- 100% Sample recovery
- Zero cross-contamination
- 3 Second detection time
- No cleaning required when using tips and just a simple wipe when using the TrayCell
- Range of interchangeable cuvette accessories including compatibility with TrayCell, standard cuvettes and dip probes
- Scanning wavelength range from 220nm to 950nm

The Picodrop Microliter UV/Vis Spectrophotometer is the only system that allows you to use the best format for your assay without compromise. Use our patented disposable UVpette Tips or the unique drop-and-read TrayCell for tip-free applications....the choice is yours!

Your perfect partner for DNA, RNA and other nucleic acid concentration measurements, protein analysis using Bradford, Lowry, Lysozyme or IgG assays and ideal for microarray dye ratio determination using most popular dyes including CY3/CY5 and the Alexa range.



Ultimate flexibility with interchangeable sample holders

CUBE



In-Tip Methodology

This unique patented technology provides the user with fast and convenient method to measure UV absorbance directly in the pipette tip. The advanced polymer technology used to make the UVpette tips ensures precise UV absorbance measurements between 220nm and 950nm, making it ideal for applications involving nucleic acid, protein, or microarray dye concentration determination.

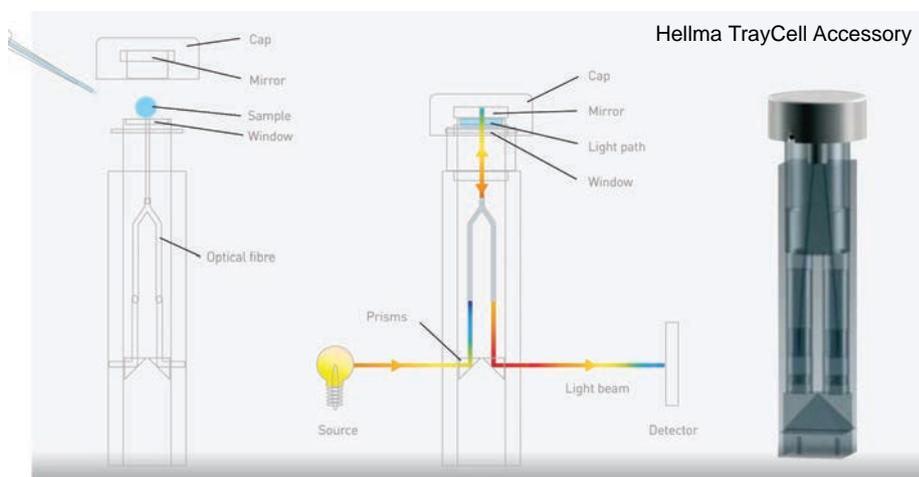
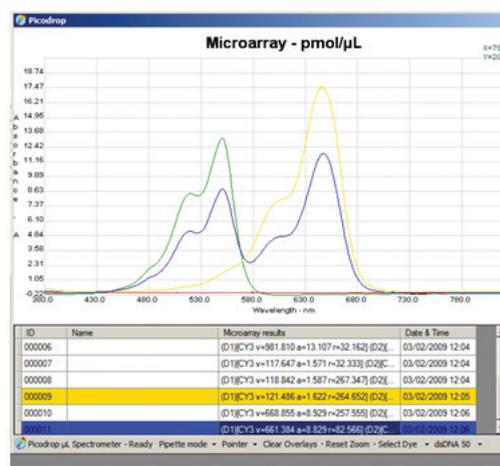
The CUBE is controlled through a powerful PC based software for an overall smaller footprint and price.

Through a friendly and intuitive user interface the CUBE allows the user to easily switch between protocols. 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 can be stored to your personal directory in MS Excel compatible format, for later analysis.

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 including the Hellma TrayCell.

...changes with your needs

The Picodrop CUBE is a complete PC controlled solution for those users requiring an easy to use methodology with complete flexibility to choose to use the unique in-tip method for the highest level of sample containment and sample recovery or with a simple switch of the interchangeable holders you can use the TrayCell sample platform method for tip-free applications. Simply pipette a 2 microlitre drop of sample onto the sample platform and then close the lid and read. After measurement a quick wipe with a tissue or cotton bud is sufficient to remove the sample and prepare the platform for the next measurement.



Everything you need
all in one box

Pico200



The Pico200 allows the user to maintain the highest levels of user and sample protection and eliminate the risk of potential cross contamination or carry-over on the sample platform.

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



The P200 comes complete with a choice of electronic or manual pipette, ensuring you can maximise throughput without compromising reproducibility or quality of results.

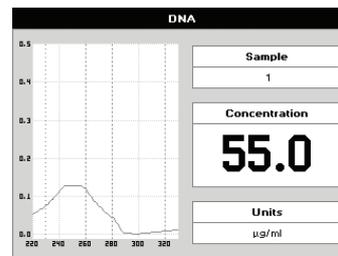
As an optional extra we offer a 10mm cuvette holder which is compatible with all standard cuvettes. The cuvette holder does not require a dark environment and is compatible with standard cuvettes from 10mm to 1mm pathlength.

If required the P200 can be connected to a PC and the PVC software supplied with the system can be used to import your sample data directly to the PC for further data analysis

Dual Circuit Technology

The cutting edge CCD detector in combination with our dual circuit technology provides the ultimate sensitivity and reproducibility for low concentration measurements. The second built-in fibre optic circuit monitors any fluctuations in light intensity and provides an effective background cancellation system.

Measure nucleic acid samples down to 3ng/ul and proteins down to 0.1mg/ml in only 3 seconds for each measurement.



The P200 is manufactured under ISO9001 conditions and is supplied complete with detailed testing certificate and validation report.

Picocal[™]
DNA Wavelength Standard

Try the unique Picocal Wavelength standard as a confirmatory test reagent.. Picocal displays a peak at 260nm equal to 1 Absorbance unit. Regular testing of your spectrophotometer ensures efficient operation and peace of mind.

Specifications & order references

Specifications	CUBE	P200
Path Length	UVpette tip, 10mm cuvette, TrayCell	UVpette tip or 10mm cuvette
Sample Volume	typically 2µl	typically 2µl
Photometric Linearity	1% (at .76 absorbance at 257 nm)	< 1% @ 546nm
Wavelength Range	220 - 850 nm	220 - 950nm
Dual Circuit noise cancellation	No	Yes
Type of Control	PC control	Onboard keypad and LCD screen
Wavelength Accuracy	1nm	1nm
Absorbance Precision	0.003 absorbance (1mm path)	0.003 (1mm path)
Dual fibre background cancelling	No	Yes
Read Time	2 seconds	3 seconds
Printing	print via PC	Optional built-in printer
Digital Output	Ethernet connection to PC	USB export to PC (standrd), Optional - Bluetooth or SD card
Dimensions (cm)	18x18x17	26x39x10
Spectral Bandwidth	2nm	3nm
Background Variability	+/-5%	+/-5%
Detection Limit (DNA) - tip	3 - 1200ng/µl	3 - 1200ng/µl
Detection Limit (DNA) - cuvette	0.02 - 150ng/ul	0.02 - 150ng/ul
Detection Limit (DNA) - TrayCell	6- 4800ng/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
Detection Limit (BSA) - TrayCell	0.2 - 100mg/ml	-
*TrayCell range when using both the 1mm and 0.2mm caps		

PCUBE01	CUBE Spectrophotometer complete with cuvette holder and 1mm TrayCell
PCUBE01E	CUBE Spectrophotometer complete with cuvette holder and 1mm and 0.2mm TrayCell
PCUBETIP	CUBE Spectrophotometer complete with manual pipette and 96 boxed tips.
PCUBETIPE	CUBE Spectrophotometer complete with Electronic pipette and 96 boxed tips.
P200P	P200 Spectrophotometer complete with manual pipette and built in printer and 96 Boxed Tips
P200PPLUS	P200 Spectrophotometer complete with manual pipette/ built in printer/ 96 Boxed Tips+50x96 tips
P200BT	P200 Spectrophotometer complete with manual pipette and built in Bluetooth and 96 Boxed Tips
P200SD	P200 Spectrophotometer complete with manual pipette and built in SD card memory and 96
P200PE	P200 Spectrophotometer complete with Electronic Pipette and built in printer and 96 Boxed Tips
P200BTE	P200 Spectrophotometer complete with Electronic Pipette and built in Bluetooth and 96 Boxed Tips
P200SDE	P200 Spectrophotometer complete with Electronic Pipette and built in SD card and 96 Boxed Tips

