

Pultton

P100 Micro-Volume Spectrophotometers



The “IntegratedOpticPath” technology

- Auto calibration at software loading.
- Measurement range up to 15,000 ng/uL (dsDNA).
- No arm moving needed during sample measurement.
- Allow same sample repeat measurement.



Micro Volume Mode

- 0.5-1uL sample required only.
- High accuracy and reproducibility.
- Measurement time about 3 seconds.



Cuvette Mode

- 10, 5, 2 and 1 mm path length selection.
- Cuvette header and stir available.
- Kinetics analyzes application.

P100 Specifications

Sample Size	0.5 - 1.5 µL
Optic Path Length	0.5 mm, 0.25 mm & 0.05 mm *
Light Source	Xenon flash lamp
Wavelength Range	200-900 nm
Wavelength Accuracy	1 nm
Absorbance Range	0.04 -300 (10 mm)*
Abs. Precision	0.002 Abs (1mm)
Abs. Accuracy	± 2% at Abs 0.674 (1mm) at 350nm
Detector Type	2048 element linear silicon CCD array
Detection Limit	2 ng/µL (dsDNA)
Max Concentration	15,000 ng/µL (dsDNA) *
Measurement Cycle	~ 4 seconds
Dimensions	145 mm x 210 mm
Weight	2.5 kg
Operating Voltage	12 VDC
Power Consumption	15 W (operating)
Surface Construction	303 stainless steel and quartz fiber
Software Compatibility	Windows® XP, Vista, Win7(8, 10) 32 & 64

* Option

Cuvette Mode

Beam height:	8.5 mm
Cuvette Pathlength	10, 5, 2, 1 mm
Heating:	37 ± 0.5°C
Stirrer:	150 - 700 RPM
Measurement Range	0.4 - 750 ng/µL (dsDNA)
Measurement Cycle	< 4 seconds
Beam height	8.5 mm

Selection Guide

	2 – 3000 ng/µL *	3000 - 15000 ng/µL **	Cuvette
P100B	Yes		
P100C	Yes		Yes
P100M	Yes	Yes	
P100CM	Yes	Yes	Yes

* dsDNA 10 mm pathlength normal measurement mode

** dsDNA 10 mm pathlength high measurement mode