

Biometrics Technologies

OneDrop Series Micro-Volume Spectrophotometer

Specification	OneDrop	OneDrop Touch Pro	OneDrop Touch Lite
Picture			
Detector	2048-Element linear CCD array		
Light Source	Xenon flash lamp		
Minimum Sample Size	0.5 ul		
Pathlength	0.05 to 1 mm auto-ranging	0.03 to 1 mm auto-ranging	
Wavelength Range	185-910 nm	185-910 nm	230,260,280,350,600 nm
Wavelength Accuracy	±1 nm		
Spectral Bandwidth	4 nm		
Spectral Resolution	≤1.8 nm (FWHM at Hg 253.7nm)		
Photometric Range (10mm equivalent)	0Abs - 300Abs	-0.3Abs - 700Abs	
Absorbance Repeatability	±0.002 Abs (1mm optical length) or 1% CV		
Absorbance Accuracy	±2% (at 0.64A at 350nm)	±2% (at 0.64A at 350nm)	±3% (at 0.64A at 350nm)
Detection Concentration	2-15,000 ng/uL dsDNA 0.06-450 mg/mL BSA 0.03-220 mg/mL IgG	2-27,500 ng/uL dsDNA 0.06-820 mg/mL BSA 0.03-400 mg/mL IgG	
Measurement Time	≤ 5 seconds		
Cuvette Mode			
Heating Temp.	37 °C ± 0.5	37 °C ± 0.5	N/A
Stirring Speed	9 speeds	10 speeds	
Optical Length	10,5,2,1 mm	10,5,2,1 mm	
Photometric	0Abs - 1.5Abs	-0.3Abs - 2.0Abs	
Limit Detection	0.4 ng/uL dsDNA 0.012 mg/mL BSA 0.006 mg/mL IgG	0.2 ng/uL dsDNA 0.006 mg/mL BSA 0.003 mg/mL IgG	
Measurement Time	Approx. 3 seconds	Approx. 3 seconds	
Measurement Mode	- Nucleic Acid - Protein - Micro array - UV-Vis - Cell Culture (OD600) - Diagnosis	- Nucleic Acid - Protein - Micro array - UV-Vis Kinetics - Cell Culture (OD600) - Diagnosis	- Nucleic Acid - Protein (A280) - Cell Culture (OD600) - Diagnosis
Operating System	PC control	7-inch 1280x800 high-definition LCD Touch Screen, Android system	
Internal Storage	N/A	6 GB Flash memory	
Wireless Connection	Wi-fi	N/A	
Data Transfer	Cable and Wi-fi	USB	
Accessory	Pipette Holder and Quartz Cuvette	Quartz Cuvette	N/A
Operating Power Consumption	DC 12V 30W	DC 12V 30W	
Standby Power Consumption	5W	5W	
Sample Pedestal Material	Aluminum Alloy and Quartz Fiber Optic		
Power	AC110V-220V 50Hz/60Hz (Power adapter)		
Dimension (WxDxH)	140x200x180 mm	185x230x200 mm	
Weight	2.1 Kg	2.3 Kg	2.2 Kg

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