

UV-VIS SPECTROPHOTOMETERS



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Micro-Spectrophotometer IMS-4000 Series allow instrument with a large concentration of nucleic acid range up to 2 to 27500 ng/µl (DS-DNA), protein range up to 0.01 to 820 mg/ml(BSA) without any samples dilution, with each measurement requiring less than 5 seconds with a pipette and wipe.

The IMS-4000 offers dynamic full spectrum 190 to 850 nm detection to ensure exact results. Suitable for nucleic acids, proteins, bacteria, cell solutions, microarray samples, and conventional full-wavelength scanning with high accuracy and reproducibility.

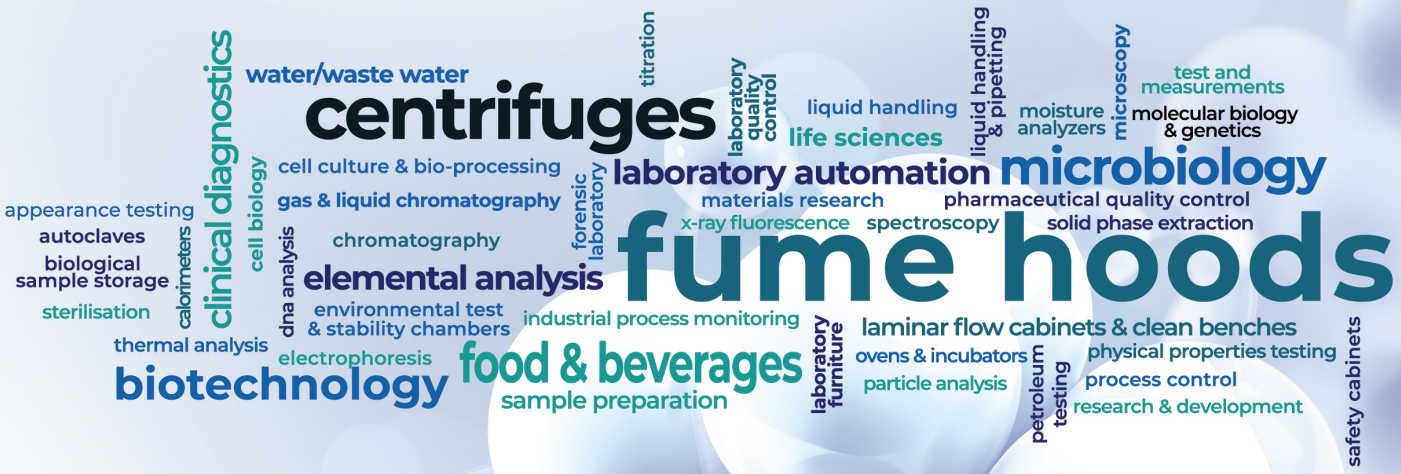
- Built-in Xenon flash lamp and touch display
- Full spectrum 190 to 850 nm
- Simple, less expensive, easy to use
- Fast measurement time in less than 5 seconds.
- The absorbance range is 0.002 to 150 abs
- Used 2048-element linear silicon CCD detector
- Designed for micro-volume 1µl samples
- No dilutions required, even for high concentration sample
- Designed with heating and cooling system
- Support USB and win 10 operating system for data transfer
- Available as darkroom cuvette & detect platform mode

Applications

- **Nucleic Acid:** Concentration and purity of DS-DNA, SS-DNA and RNA
- **Protein:** Concentration of the protein A280 (1Abs = 1mg/mL), BSA, IgG and lysozyme, Concentration of protein with protein assay kit (Lowry, BCA and Bradford)
- **Cell Culture**: Concentration of suspended cell cultures
- **Conventional full-wavelength scanning:** (190 to 850 nm) absorbance scans
- **Microarray:** Concentration of fluorescent dye labeled nucleic acid (microarray), for it can measure the concentration of the nucleic acid and the dye at the same time

Model	IMS-4100	IMS-4200	IMS-4400	IMS-4400
Wavelength range	190 to 850 nm			
Sample Volume	1 ?l	50 ?l(available: darkroom cuvette & detect platform mode)		
Heating System	-		RT to 42°C	-
Cooling System	-			4°C to -42°C
Wavelength Accuracy	±1nm			
Wavelength Resolution	2nm (FWHM Hg 546nm)			
Source	xenon lamp			
Repeatability	<±0.5nm			
Absorbance Range	0.002-550 (equivalent to 10mm optical path)			
Absorbance Accuracy	1% (0.76 absorbance at 350nm)			
Sample Base Material	stainless steel and quartz fibre			
Detector	2048 linear CCD array			
Optical Path length	1//0.1/0.05mm automatic conversion	1/2/5/10mm		
Time Range	?5s			
Display	7-inch Touch Display			
Detects Nucleic Acid	2 to 27500 ng/?l (DS-DNA)			
Detects Protein	0.01 to 820 mg/ml (BSA)			
Application	detect nucleic acids, proteins, bacteria, cell solutions, microarray samples, and conventional full-wavelength scanning			
Interface	USB			
Operating System	win 10			
Electrical Requirement				
Catalogue No.	5809505-04	5809510-04	5809515-04	5809520-04

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