



UV-VIS SPECTROPHOTOMETERS



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Iris Analytical offers a full range of high quality Visible, UV-Visible, UV-VIS-NIR and Fluorescence spectrophotometers from teaching and routine instruments to research-grade systems. It's split beam, double-beam with single/double-monochromator systems are suitable for variety of analytical needs in the fields of basic research, biotechnology, new materials and many others. The measurements on small sample volumes can be made using optional 50 μ L, 25 μ L and 5 μ L micro-volume cells for biotechnological applications.

The single beam scanning Visible spectrophotometer with an on-board colour Touch screen offers high precision and functionality for various applications. It performs both basic and complex analyses for educational or industrial use. Its intuitive design allows students and teachers to focus on scientific data and concepts rather than on learning how to use the instrument. In the lab, technicians of all levels working in routine QA/QC applications can easily obtain credible results to confirm quality.

Iris UV-VIS Spectrophotometers are unique for their very high performance scanning, with derivatives, overlay, extended analytical power and multi-cell Kinetics. They cover the full 190-1100nm wavelength range with a narrow 1.8nm optical bandwidth. With straylight of 0.01%, wavelength precision of 0.1nm and baseline stability of better than ± 0.001 A/hr, the most demanding analytical work may be undertaken.

Iris fully symmetrical double beam system of the Aquarius instruments provides for the highest accuracy of measurement coupled with a very high level of stability with time.

Visible Spectrophotometers

Visible Spectrophotometer has been designed to suit a wide range of budgets, industries, and applications. The range includes single beam entry-level spectrophotometers with a spectral bandwidth of 12 nm, and variable double beam spectrophotometers with a spectral bandwidth down to 2.0 nm. Iris Visible Spectrophotometer has absorbance, transmittance, absorbance ratio, and factor concentration modes, as well as absorbance against time and scanning capabilities. Provide accurate and reliable to your field measurements with several basic functions, such as photometry test, quantitation test, and spectrum scanning



Visible Spectrophotometer IVS-200 Series

Visible Spectrophotometer IVS-200 Series is simple to operate and easy to use instrument with advanced performance technology. This series is a single beam spectrophotometer. Our line of spectrophotometers is intended to fit into the medical and health department, biochemistry, petrochemistry, environmental monitoring, and quality control as qualitative and quantitative analyses. Build-in halogen tungsten light source and a silicon photodiode detector.



We offer a soft keypad display, with continuous wavelength ranging from 320 to 1100 nm. Features with LCD light display with 190 to 1100 nm and 320 to 1100 range and tungsten halogen lamp. Portable and effortless handling with flatness up to $\leq 0.1\%$ T (NaNO₂, 360 nm), 0.05% T (NaNO₂, 360 nm) stray light and single beam, flat grid of 1200L / mm.

- Results can be reported quickly
- Large 6 inches blue and 16X2 LCD display with touch features
- Improved optical and electronic design
- Single beam detector
- Automated design, realizing easy measurement
- Parameters can be kept for future use and automatically save after power failure
- Determined wavelength scanning, time scanning, multiple wavelength determination, multiple order derivative determination, double wavelength method and triple wavelength method etc.
- Data outputs can be gained by means of a printer port and RS-232 interface with optional USB port
- Automatic 10 mm 8-cell holder, variable to automatic 5 mm to 50 mm 4-position cell holder for more choices

Model	IVS-210		IVS-220	
Wavelength	320-1100 nm			
Display	6 inches blue LCD light		16X2 LCD	
Detector	Silicon photodiode			
Accuracy	± 0.5 nm		± 2.0 nm	
Reproducibility	0.2 nm		1 nm	
Source	-		Halogen tungsten lamp	
Monochromator	Single beam, flat grid of 1200L / mm			
Spectral Bandwidth	2 nm (5 and 1 nm are optional)		5 nm (1,2 and 4 nm are optional)	
Stability	$\approx 0.001\text{A/h}$ (at 500nm, after heating)			
Photometric Accuracy	$\pm 0.5\%$ T (0-100% T), $\pm 0.002\text{A}$ (0-0.5A) $\pm 0.004\text{A}$ (0.5A-1A)		$\pm 0.5\%$ T	
Photometric reproducibility	0.2% T		0.3 % T	
Photometric range	-0.3 to 3 A			
Stray light	$\approx 0.1\%$ T (NaNO ₂ , 360 nm)		$\approx 0.05\%$ T (NaNO ₂ , 360 nm)	
Baseline Flatness	$\pm 0.002\text{A}$			
Power Consumption	140 W		100 W	
Dimensions	530 × 410 × 210 mm		-	
Weight	18 kg		15 kg	
Electrical Requirement	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	580100501	580100502	580101001	580101002

Visible Spectrophotometer IVS-100 Series

Visible Spectrophotometer IVS-100 Series is simple to operate and easy to use instrument with advanced performance technology. This series is a single beam spectrophotometer. Our line of spectrophotometers is intended to fit into the medical and health department, biochemistry, petro-chemistry, environmental monitoring, and quality control as qualitative and quantitative analyses. Build-in halogen tungsten light source and a silicon photodiode detector.



We offer a soft keypad display, with continuous wavelength ranging from 325 to 1000 nm, 320 to 1100 nm. Suitable for basis, standard curve and coefficient method, quantitative and qualitative analysis of samples within the visible spectrum and with manual and automatic setting mode to escape operation miscalculations. Offer lead screw structure to instruments for better accuracy and resolution. Access with T, A, C, F photometric range along with 4 different mode functions including absorption, transmittance, concentration, and coefficient with manual switching mode.

Functions of photometric range:

- T Type: used to measure the transmittance of samples.
- A Type: used to measure the Absorbance of samples.
- C Type: used to measure the standard curve can use at most 9 standard samples to generate a new standard curve and to measure the unknown samples by the new one.
- F Type: used to measure the coefficient method input the known K and C to measure the unknown concentration samples.

Features

- Microprocessor controlled
- 1200 line grating which ensures high resolution
- Designed with 128×64-inch LCD display
- Spectral bandwidth 2 and 4 nm
- Die-cast aluminum base materials
- Single beam spectrophotometer with highly stable optics
- Low stray light with $\leq 0.2\%$ T and $\leq 0.5\%$ T
- Simple to upgrade: basis, standard curve and coefficient method, quantitative and qualitative analysis
- Automatic and manual setting mode
- Designed with lamp saver mode
- Designed with high class grating hermetic light path to ensure low stray light
- Support USB Port & Parallel Port (Printer) for data storage

Model	IVS-110			IVS-120	
Wavelength	320 to 1100 nm				
Wavelength Setting	Auto				
Display	128×64-inch LCD				
Detector	Silicon Photodiode				
Accuracy	±0.8 nm			±0.5 nm	
Reproducibility	0.3 nm			0.2 nm	
Source	W Lamp				
Baseline Flatness	± 0.002A/h			± 0.0015A/h	
Spectral Bandwidth	2 nm				
Stability				± 0.001A/h (500 nm)	
Photometric Accuracy	±0.3% T				
Photometric Reproducibility	0.2% T				
Photometric Range	-0.3 to 3A 0 to 200% T 0 to 9999 C				
Stray light	?0.05% T				
Interface	USB Port & Parallel Port(Printer)				
Dimension	460×360×225 mm				
Weight	18 kg				
Electrical Requirement	AC 220V/50Hz	110V/60Hz	AC 220V/50Hz		110V/60Hz
Catalogue No.	580050502	580050501	580051002		580051001

UV-VIS Spectrophotometers

Our UV-VIS Spectrophotometer designed with a multiple-beam optical system. The range includes single beam entry-level spectrophotometers with a spectral bandwidth of 2.0 nm; split beam with a spectral bandwidth of 2.0 nm and double beam spectrophotometers with a spectral bandwidth down to 2.0 nm and is a quantitative technique used to measure light absorbance of chemical substance. Accomplish a wide range of applications including quality control, common research, pharmaceuticals, biochemical and clinical laboratory.

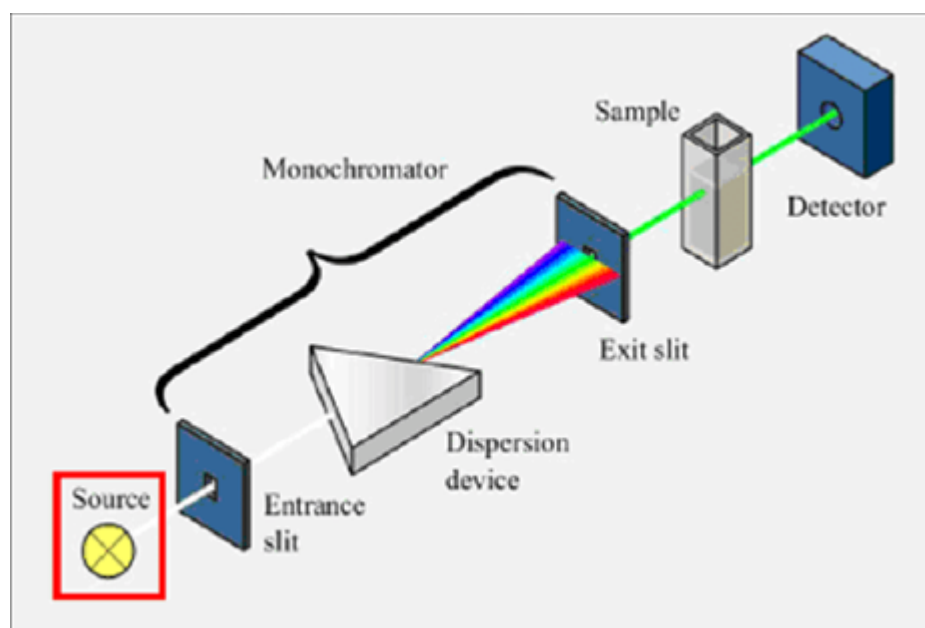


It is advanced high-speed spectrophotometers that are used to perform DNA and Protein estimation and standard curve routines content to differentiate between nucleic acid and sample contaminations.

Iris UV-VIS Spectrophotometer is a quick and easy to use, examining multiple samples within minutes.

Single Beam UV-VIS Spectrophotometers

A Single Beam Scanning Spectrophotometer used to measure the intensity of the incident light bypassing all light through the sample. Provide scanning capabilities and built-in 7-inch color touch screen display with local controlling. Design with real-time deuterium and tungsten light source for longer durability of the instrument. This instrument is specially designed for single-beam spectrophotometer covering 190 to 1100 nm with low noise: 0.004 A. ideal for photometry, quantity, multi-wavelength, spectrum, kinetics, DNA and Protein estimation, and standard curve routines and variable spectral bandwidth ranges from 0.5, 1, 1.8, 2, 4 to 5 nm.



Single Beam UV-VIS Spectrophotometer IUS-1000

Single Beam UV-VIS Spectrophotometer IUS-1000 offers superb application functions with accuracy and precision. It is the best instrument for various applications. Provide 1200 line grating single beam to ensure high resolution with wavelength availability of 190 to 1000 nm and 4 nm bandwidth, tungsten, and D2 lamp. A useful function is an absorption, transmittance, and wavelength with automatic switching mode.



- Equipped with a microprocessor to set parameter
- 1200 line single beam grating which ensures high resolution
- Designed with 128×64-inch and 320×240-inch LCD display
- Variable spectral bandwidth 0.5, 1, 1.8, 2, 4 and 5 nm
- Die-cast aluminum base materials
- Single beam spectrophotometer with highly stable optics
- Low stray light with $\leq 0.2\%$ T
- Automatic setting mode
- Designed with multi-lamp source
- Offer high-class grating hermetic light path to ensure low stray light
- Support USB Port & Parallel Port (Printer)

Single Beam UV-VIS Spectrophotometer IUS-2000 Series

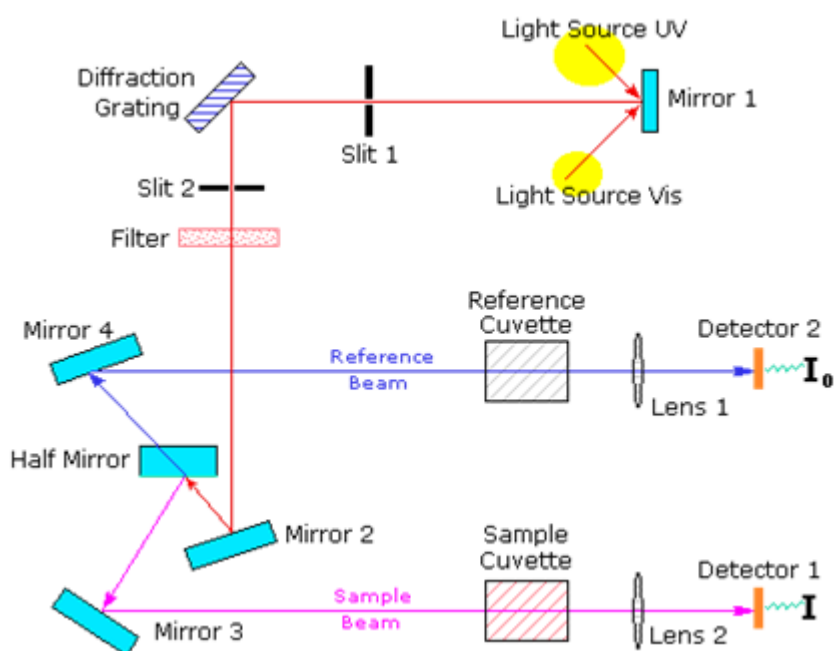
Single Beam UV-VIS Spectrophotometer IUS-2000 Series provide sufficient light source for exact measurement. Our line of spectrophotometers is intended to fit into for QC, common research, pharmaceuticals, biochemical and clinical laboratory. Build-in halogen tungsten light source and a silicon photodiode detector. We offer a soft keypad, with continuous wavelength ranging from 190 to 1100 nm with variable spectral bandwidth 0.5, 1, 2, 4, and 5 nm and 160 to 200 mm focal length and used to measure light absorbance of chemical substance. This series is suitable for measuring photometry, quantity, multi-wavelength, spectrum, kinetics.



- Adjustable spectral bandwidth 0.5, 1, 2, 4 and 5 nm
- Designed with 8-inch color touch screen display
- Wavelength range: 190 to 1100 nm
- Silicon photocell detector
- Double beam spectrophotometer with highly stable optics
- Low stray light with $\leq 0.2\%$ T
- CE certified and support USB interface to transfer data
- Used to measure a variety of unique surfaces
- Accomplish consistent and accurate colour measurement
- Ease rework and wasted materials
- Quick to meet customer demands

Split Beam UV-VIS Spectrophotometers

Split Beam UV-VIS Spectrophotometers also known as ratio beam spectrophotometer. This beam is generated by splitting of the light source in which two beams are generated where one is passing through the sample using a detector and the other beam is used to measure signal references. Split beam UV-Vis Spectrophotometers, with wavelength range 190 to 1100nm and 0.5 nm, 1 nm, 1.8 nm, 2 nm, 4 nm variable bandwidth.



Split Beam UV-VIS Spectrophotometers IUS-1000

Split Beam UV-VIS Spectrophotometers IUS-1000 is advanced high-speed spectrophotometers which are used to perform DNA and Protein estimation and standard curve routines content to differentiate between nucleic acid and sample contaminations. Our line of spectrophotometers is intended to fit into for QC, common research, pharmaceuticals, biochemical and clinical laboratory. Build-in halogen tungsten light source and silicon photodiode detector. We offer soft key pad, with continuous wavelength ranging from 190 to 1100 nm with variable spectral bandwidth 0.5, 1, 2, 4 and 5 nm and 160 to 200 mm focal length and used to measure light absorbance of chemical substance. Suitable for photometry, quantity, multi-wavelength, spectrum, kinetics.



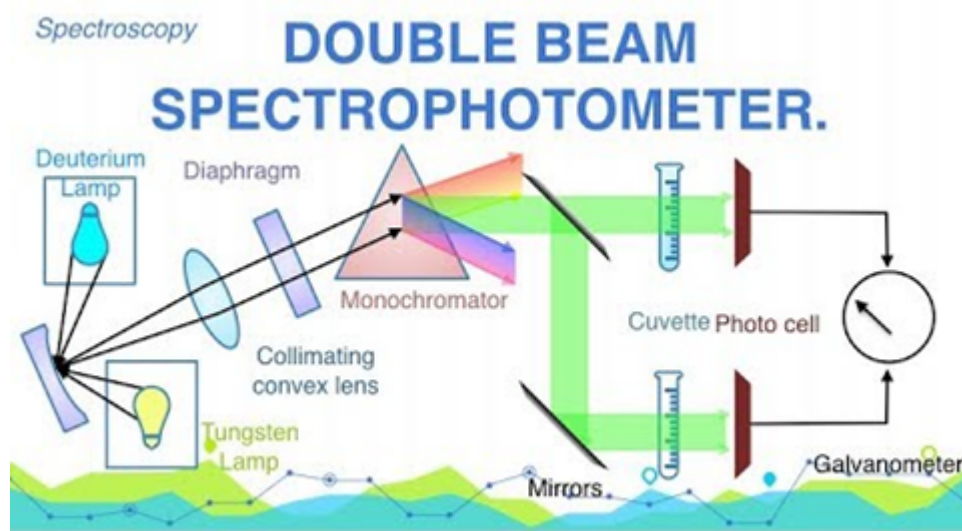
- Results can be reported quickly
- Large 6 inches blue LCD display with touch features
- Improved optical and electronic design
- Multi beam detector
- Automated design, realizing easy measurement
- Parameters can be kept for future use and automatically save after power failure
- CE certified and support USB interface to transfer data
- Used to measure a variety of unique surfaces
- Accomplish consistent and accurate colour measurement
- Ease rework and wasted materials
- Quick to meet customer demands

Double Beam Spectrophotometer

Double Beam Spectrophotometer provide s high stability, similar to a split beam by using to pass radiation to the sample and a mirror to reflect radiation to the blank instead of the beam splitter.



Design with two different display features including 320×240 and 10-inch touch screen display. Offer real-time deuterium and tungsten light source for longer durability of the instrument. This instrument is specially designed for a double beam covering 190 to 1100 nm with low noise: $\pm 0.001A/h$. Applicable for quantitative; kinetics; wavelength scan; multi-wavelength; DNA/protein and data processing.



Double Beam UV-VIS Spectrophotometer IDS-1000 Series

Double Beam UV-VIS Spectrophotometer IDS-1000 Series offers significantly better-quality and usability, a user-friendly touch screen display, design with 1200 line grating double beam spectrophotometer to ensure high resolution with wavelength availability of 190 to 1100 nm and 1.8 nm bandwidth, D2 Lamp & W Lamp. Useful function are photometric measurement, quantitative measurement, spectral scanning, dynamics, DNA/ protein testing, multi-wavelength testing and data printing functions.



- Equipped with microprocessor to set parameter
- 1200 line double beam grating which ensures high resolution
- Designed with 320×240-inch and 10-inch touch screen LCD display
- Variable spectral bandwidth 0.5, 1, 1.8, 2, 4 and 5 nm
- Die-cast aluminum base materials
- Single beam spectrophotometer with highly stable optics
- Low stray light with $\leq 0.3\% T$
- Automatic setting mode
- Designed with multi lamp source
- Offer high class grating hermetic light path to ensure low stray light
- Support USB Port, Parallel Port and Bluetooth connection available

AA Spectrophotometers

Atomic Absorption Spectrophotometer deals with the concentrations of elements in the liquid samples. AAS operates with the principle that elements in the gas phase absorb light at definite wavelengths which provides the outstanding technique with detection limits.



Iris Spectrophotometer has a different range of AAS with flame and graphite furnace using a cathode light source and supports a single beam, Czerny-Turner grating system with automated FUZZY-PID control system and dual curve mode light-controlled temperature control technique. Iris AAS offer full range of accurately designed consumables and equipment to meet customer's various application requirements. We also provide a double atomizer model that creates an easy process to change from flame to graphite furnace technique without any tuning using the software. The heated graphite furnace with all its highlights confirms full accuracy and operation.

Iris AAS has been used to make a device that is easy to use, and maintain.

Fluorescence Spectrophotometer

Fluorescence Spectrophotometer is designed to enhance the productivity, interchangeable, plug-and-play accessories, intuitive software that mirrors your laboratory workflow, and maintenance and services that validate your equipment and ensure standard compliance regulations are met. Fluorescence Spectrophotometer is intended to fit in the field of bioscience, industrial, chemical, environmental, pharmaceutical, agricultural, and academic applications. Iris **b** is the development of healthy and reliable with the latest optical technology and better-quality systematic performance.



Fluorescence Spectrophotometer IFS-1000 Series

Fluorescence Spectrophotometer IFS-1000 Series is equipped with a high-quality xenon source and photoelectric detectors to provide sufficient light intensity signal and the detection sensitivity. Operates in variable wavelength range: 200, 365, 405, 470, 515, 650, and 900 nm with ± 1 nm and ± 2 nm accuracy and 0.5 to 1 nm wavelength reproducibility. Suitable in the field of bioscience, industrial, chemical, environmental, pharmaceutical, agricultural, and academic applications. Multi accessories are available.



It is a horizontal beams spectrophotometer measure a trace amount of sample, CE certified, and offer robustness, reliability, and sensitivity with 365 nm and C-T diffraction grating. Suitable for education & laboratory, organic & inorganic chemistry.

- Designed to improved laboratory safety
- Easy to use and unique sampling
- Expand analytical capabilities
- Offer robustness, reliability and sensitivity
- Offer variable wavelength
- Accuracy: ± 1 nm and ± 2 nm
- Reproducibility: ≤ 0.5 nm and ≤ 1 nm
- Available with multi accessories
- Portable and user friendly
- CE certified and support USB and R322 interface to transfer data
- Used to measure a variety of unique surfaces
- Accomplish consistent and accurate colour measurement
- Ease rework and wasted materials
- Quick to meet customer demands

Accessories

- Power cord: 1 pc
- Fuse(1A): 2 pcs
- Fuse(5A): 2 pcs
- Quartz fluorescence cuvette 10 mm: 2 pcs

Optional Accessories

- Cuvette, special for high concentration samples
- 360 to 650 nm interference optical filter(25 mm) e.g.: IFS-1093A: 365,405,470,515 nm
- Quartz fluorescence cuvette10mm
- Data processing software
- Printer cable
- RS-232C serial port cable

Model	IFS-1093		IFS-1093A		IFS-1096		IFS-1096A	
Wavelength range	365 nm		365,405,470,515 nm		200 to 650 nm		Excitation: 365 nm, Emission: 200 to 900 nm	
Display	LED							
Accuracy	±2 nm				± 1 nm			
Reproducibility	±1 nm				± 0.5 nm			
Source	LED				150 W Xenon lamp			
Monochromatic	360 to 650 nm (C-T diffraction grating)				C-T grating Emission: 200 to 650 nm, Bandwidth: 10 nm			
Spectral Bandwidth	10 nm							
Slit	-						Excitation: 10 nm, Emission: 10 nm	
Sensitivity	1×10-9 g/ml				-			
Limit	-							
Linearity	±3.0%				±0.995		±0.995	
Photometric Range	-				-9999 to 9999		-9999 to 9999	
S/N ratio	-				S/N≥90		S/N≥150(P-P)	
Upper Limit Value	-				±1.5% (Within 10 minutes) (displaying value±50)			
Detection limit	-				1 × 10-10 g / ml quinine sulfate solution			
Exciting optical filters	Interference optical filter (10 nm bandwidth)							
Certification	CE							
Interface	RS232				USB2.0			
Power Consumption	-				200 W			
Dimension	450×420×280 mm				550×510×365 mm			
Net Weight	7 kg				11 kg			
Gross Weight	9 kg				13 kg			
Electrical Requirement	220V±22V 50Hz±1Hz	110V/60Hz	220V±22V 50Hz±1Hz	110V/60Hz	220V±22V 50Hz±1Hz	110V/60Hz	220V±22V 50Hz±1Hz	110V/60Hz
Catalogue No.	5803500502	5803500501	5803501002	5803501001	5803501502	5803501501	5803502002	5803502001

Micro/Nano Spectrophotometer

Iris Micro/Nano Spectrophotometer speeds up work efficiency of your research work by simply providing with a wide range of trivial capacity cuvettes, allow for fast and precise quantitation of proteins, cell cultures, microarray samples, and UV-VIS full spectrum absorbance scan. To make measurements quicker and easier, the Iris Micro-Spectrophotometer has pre-programmed methods for the measurement of nucleic acid concentration and purity, protein assays, and cell density. This spectrophotometer measures across a UV-VIS full spectrum absorbance analysis range of 200-850 nm.



Iris Micro/Nano Spectrophotometer is technologically advanced and delivered an 8-channels pipette to dispense samples on a linear array of stands, you can easily measure and make it easier to detect 8 samples at a time to save time and ensuring accurate results.

Micro-Spectrophotometer IMS-2000 Series

Micro-Spectrophotometer IMS-2000 Series allow instrument with a large concentration of nucleic acid range up to 2 to 700 ng / μ l, dsDNA, protein range up to 0.1 to 40 mg/ml, BSA without any samples dilution, with each measurement requiring less than 5 seconds with a pipette and wipe. The IMS-2000 offers dynamic full spectrum 200 to 850 nm detection to ensure exact results. Suitable for nucleic acids, proteins, with high accuracy and reproducibility.



- Built-in Xenon flash lamp and touch display
- Full spectrum 200 to 850 nm
- Simple, less expensive, easy to use
- Fast measurement time in less than 5 seconds.
- The absorbance range is 0.02 to 30 Abs
- Used 2048-element linear silicon CCD detector
- Designed for micro-volume 1 to 2 μ l samples
- No dilutions required, even for high concentration sample

Model	IMS-2000
Wavelength range	200 to 850 nm
Sample Volume	1 to 2 μ l
Wavelength Accuracy	± 1 nm
Wavelength Resolution	2 nm (FWHM at Hg 546 nm)
Source	xenon lamp
Absorbance Range	0.02 to 30 Abs, equivalent to 10 mm
Absorbance Accuracy	1% (0.76 absorbance at 350 nm)
Detector	2048-element linear silicide CCD array
Path length	1 mm, 0.05 mm
Time Range	?5s
Display	Touch Display
Detects Nucleic Acid	2 to 700 ng / μ l, dsDNA
Detects Protein	0.1 to 40 mg / ml, BSA
Application	nucleic acids, proteins
Operating System	Win10
Electrical Requirement	
Catalogue No.	58085005-04

Micro-Spectrophotometer IMS-1000 Series

Micro-Spectrophotometer IMS-1000 Series allow instrument with a large concentration of nucleic acid range up to 10 to 15000 ng/μl(dsDNA), protein range up to 0.5 mg/ml to 400 mg/ml(BSA) without any samples dilution, with each measurement requiring less than 5 seconds with a pipette and wipe. The IMS-1000 offers dynamic full spectrum 200 nm, 230 nm, 260 nm, 280 nm detection to ensure exact results. Suitable for nucleic acids, proteins, cell cultures, microarray samples, and UV-VIS full spectrum absorbance scan with high accuracy and reproducibility.



- Built-in Xenon flash lamp and touch display
- Full spectrum 200 nm, 230 nm, 260 nm, 280 nm
- Simple, less expensive, easy to use
- Fast measurement time in less than 5 seconds.
- The absorbance range is 0.002 to 75
- Used 2048-element linear silicon CCD detector
- Designed for micro-volume 0.3 to 2 μl samples
- No dilutions required, even for high concentration sample

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
- **UV-VIS:** UV/VIS full-spectrum (200 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-1100	IMS-1200	IMS-1300
Wavelength range	200 to 850 nm		260 nm, 230 nm, 280 nm
Sample Volume	0.3 to 2 μL		
Wavelength Accuracy	±1 nm		-
Wavelength Resolution	2nm (FWHM at Hg 546nm)		-
Source	Xenon flash lamp		
Repeatability			
Absorbance Range	0.002 to 75(optional: 150, 300, 10 mm equivalent absorbance)		0.2 to 75(10mm equivalent absorbance)
Absorbance Accuracy	1% (0.76 absorbance at 350 nm)		1%
Absorbance Resolution	0.002 Abs		
Detector	2048-element linear silicon CCD		-
Path length	1 mm, 0.2 mm, (optional: 0.1 mm, 0.05 mm)		1mm, 0.2mm
Cuvette Dimension	1mm, 2mm, 5mm, 10mm	No Cuvette, No cells	
Time Range	75s		
Display	Touch Display		
Detects Nucleic Acid	0.4 to 3750 ng/?(optional: 7500,15000, dsDNA)	2 to 15000 ng/?(dsDNA)	10 to 15000 ng/?(dsDNA)
Detects Protein	0.01 mg/ml to 100 mg/ml(optional: 200,400, BSA)	0.1 mg/ml to 100 mg/ml(optional: 200,400, BSA)	0.5 mg/ml to 400 mg/ml(BSA)
Application	nucleic acids, proteins, cell cultures, microarray samples, and UV-VIS full spectrum absorbance scan		nucleic acids, proteins
Dimension	240×210×110 mm	210×170×110 mm	300×200×140 mm
Net Weight	1.92 kg	1.35 kg	2.35 kg
Electrical Requirement			
Catalogue No.	58080005-04	58080010-04	58080015-04

Micro-Spectrophotometer IMS-3000 Series

Micro-Spectrophotometer IMS-3000 Series allow instrument with a large concentration of nucleic acid range up to 2 to 7500 ng / μ l (DS-DNA), protein range up to 0.01 to 100 mg/ml (BSA) without any samples dilution, with each measurement requiring less than 5 seconds with a pipette and wipe. The IMS-3000 offers dynamic full spectrum 190 to 840 nm detection to ensure exact results. Suitable for nucleic acids, proteins, with high accuracy and reproducibility.



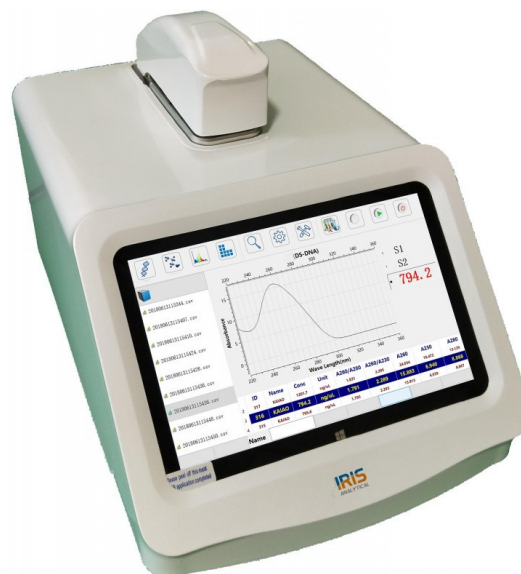
The IMS-3000 is technologically advanced and delivered an 8-channels pipette to dispense samples on a linear array of stands, you can easily measure and make it easier to detect 8 samples at a time to save time and ensuring accurate results.

- Built-in Xenon flash lamp and touch display
- Full spectrum 190 to 840 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 1 to 2 μ l samples
- No dilutions required, even for high concentration sample
- 8 channel microspectrophotometer

Model	IMS-3000
Wavelength range	190 to 840 nm
Sample Volume	1 to 2 μ l
Wavelength Accuracy	± 1 nm
Wavelength Resolution	2 nm (FWHM at Hg 546 nm)
Source	xenon lamp
Repeatability	$\leq \pm 0.5$ nm
Absorbance Range	0.002 to 150 (equivalent to 10 mm path length)
Sample Base Material	stainless steel and quartz fibre
Detector	2048-element linear silicide CCD array
Channel	8 channel(Detect 8 samples simultaneous)
Time Range	?5s
Display	Touch Display
Detects Nucleic Acid	2 to 7500 ng / μ l (DS-DNA)
Detects Protein	0.01 to 100 mg / ml (BSA)
Application	nucleic acids, proteins
Interface	USB
Electrical Requirement	
Catalogue No.	58090005-04

Micro-Spectrophotometer IMS-4000 Series

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 μ l	50 μ l(available: darkroom cuvette & detect platform mode)		
Heating System	-		RT to 42°C	-
Cooling System	-			4°C to -42°C
Wavelength Accuracy	± 1 nm			
Wavelength Resolution	2nm (FWHM Hg 546nm)			
Source	xenon lamp			
Repeatability	$< \pm 0.5$ nm			
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	≈ 5 s			
Display	7-inch Touch Display			
Detects Nucleic Acid	2 to 27500 ng/ μ 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

Spectrofluorometer

Iris Spectrofluorometer user-friendly, compact, multi-channel fluorometer designed to provide accuracy to measure DNA, RNA, and protein quantity. On top, with the newest version of the fluorometer, users can now easily measure RNA integrity and quality. Design with 3 unique channels including UV channel, red channel, green channel, and blue channel. Recommended for Next-Generation Sequencing, qPCR, PCR cloning, transfection. Provide visual design particularly for great sensitivity calculation with enlarging, wide dynamic range, and spontaneous filters.



Spectrofluorometer IFM-100 series

Iris Spectrofluorometer IFM-100 series emission is observed at a variable wavelength of 365, 525, and 625 nm. The utmost number of molecules is excited simultaneously. The light is entering through a filter, choosing a fixed wavelength, or a monochromator, that allows a wavelength to be selected for light stimulation. Measure the fluorescence intensity of the fluorescent reagent and it has many application including sample scarce and difficult in processing, low quantity of DNA, RNA, or protein after extraction, and sample will be used in the expensive experiments: qPCR, PCR cloning, transfection, NGS (next-generation sequencing). Detects fluorescent dyes that are precise to the object. These fluorescent dyes emit only when bound to the target molecules, at low concentrations.



- Unique features and accessories including quad-fluorescent channels
- UV channel: excitation 365 ± 20 nm; emission: 420-480 nm (60 nm)
- Red channel: 625 ± 10 nm; emission: 670-725 nm (55 nm)
- Green channel: 525 ± 20 nm; emission: 575-640 nm (65 nm)
- Blue channel: 460 ± 20 nm; emission: 525-570 nm (45 nm)
- Large 4.3 inch touch screen display
- Aimed to offer extremely complex fluorescent detection when measuring nucleic acids
- Recommended for Next-Generation Sequencing, qPCR, PCR cloning, transfection
- DNA detection limit is 0.5pg/ul
- Save 1000 data and output data by USB port, Detector: Photodiode
- Versatile, Fast and reliable
- Linear Dynamic Range: 5 orders of magnitude
- View concentration results, raw values, sample volumes, and quality check easily
- Portable and easy handling
- Adapter: 0.5ml qPCR tube adapter
- Adapter: 0.2ml qPCR tube adapter with printer and printer paper (option)

