

Lab-Spectrum Catalog

<http://www.lab-spectrum.com>



**α-1101 , α-1102 Single beam Visible spectrophotometer
α-1502 Single beam UV/Visible spectrophotometer**

Features:

- W**ith embedded computer and optimized optical system ,convenient and easy to use;
- L**arge screen graphic LCD display with abundant but simple instructions;
- Q**uantitative analysis:linear fitting and linear fitting through zero;
- B**uilt in thermal printer output data and curve;
- U**p to 200 test data can be saved in local memory;
- L**SI' s Windows®-based PC application software provides more features.

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Main Menu 11:25:38
* Basic Mode
Quantitative
Utility
    
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Saved data list
* COD Low
COD High
%T/Abs Test
    
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Specifications:			
Models	α-1101	α-1102	α-1502
Wavelength Range	325 - 1000nm		200-1000nm
Spectral Bandwidth	4nm / 2nm (Optional)		
Optical System	Single beam & Littrow,Grating 1200 line/mm		
Wavelength Accuracy	±2nm		
Wavelength Repeatability	±1nm		
Wavelength Resolution	1nm		
Photometric Range	-0.3 to 2.5A ; 0-200%T; -9999 to 9999C		
Photometric Accuracy	±0.004A@0.5A , ±0.5%T(0 ~ 100%T)		
Photometric Repeatability	±0.002A@0.5A , ±0.3%T(0 ~ 100%T)		
Stray Light	≤ 0.1%T @ 340nm		≤ 0.1%T @ 220nm&340nm
Stability	±0.002A/hour @500nm ,0A		
Sample compartment	Accommodates 50mmMax pathlength cuvette	Accommodates 100mmMax pathlength cuvette	
Data Output	128*64Dots Array Graphic LCD built-in printer(Optional) USB1.1 Connecting to computer		
Size	520x 400x190 mm	569x 448x203 mm	
Weight	8kg	11kg	12kg

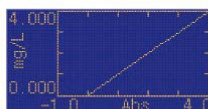
(Specifications subject to change without notice)



α-1106 Split beam Visible spectrophotometer
α-1506 Split beam UV/Visible spectrophotometer

Features:

- W**ith embedded computer and optimized optical system ,convenient and easy to use.
- L**arge screen graphic LCD display with abundant but simple instructions;
- B**asic photometric mode,Quantitative analysis,Kinetics test,DNA/Protein Test are available;
- A**lternative fitting and correction methods for Quantitative analysis;
- E**nzyme reaction rate calculation for kinetics;
- B**uilt in thermal printer output data and curve;
- U**p to 1000 test data can be saved in local memory;
- L**SI' s Windows®-based PC application software provides more features.



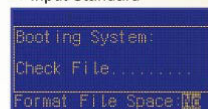
● Standard curve



● Input Standard



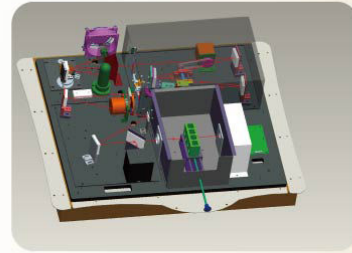
● Select Unit



● Booting System

Specifications:		
Models	α-1106	α-1506
Wavelength Range	325 - 1100nm	190 - 1100nm
Spectral Bandwidth	2nm/4nm (optional)	
Optical System	Split beam & Littrow, Grating 1200 line/mm	
Wavelength Accuracy	±0.8nm	±0.5nm
Wavelength Repeatability	±0.3nm	±0.2nm
Wavelength Resolution	0.1nm	
Photometric Range	-0.3 to 3A ; 0-200%T; -9999 to 9999C	
Photometric Accuracy	±0.004A@0.5A , ±0.5%T(0~100%T)	
Photometric Repeatability	±0.002A@0.5A , ±0.3%T(0~100%T)	
Stray Light	≤0.05%T@340nm	≤0.05%T@220nm&340nm
Baseline flatness	±0.002A (with PC application software)	
Stability	±0.002A/hr @500nm ,0A	
Data Output	128×64Dots Array Graphic LCD built-in printer(optional) USB1.1 Connecting to computer	
Size	569x 448x203 mm	
Weight	12kg	13.5kg

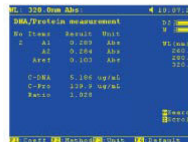
(Specifications subject to change without notice)



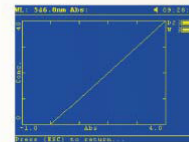
1860S Optical System

α-1860 and 1860S Split beam UV/Visible spectrophotometer
Features:

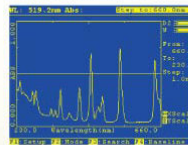
- With embedded computer and optimized optical system, convenient and easy to use
- Large screen graphic LCD display with abundant but simple instructions
- Basic photometric mode, Quantitative analysis, Qualitative analysis, Kinetics test, DNA/Protein Test, Multi-wavelength and Performance validation are available
- Alternative fitting and correction methods for Quantitative analysis
- Re-scaling axes, curve smoothing, combination, zooming and overlap, 1st to 4th derivative for Qualitative analysis
- Enzyme reaction rate calculation for Kinetics
- Data output by optional built-in thermal printer or USB2.0 printer driver;
- Up to 1000 test data can be saved in local memory
- LSI's Windows®-based PC application software provides more features



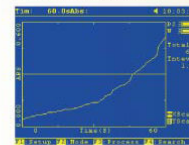
● DNA measurement



● Standard Curve



● Absorbance Peaks of holmium



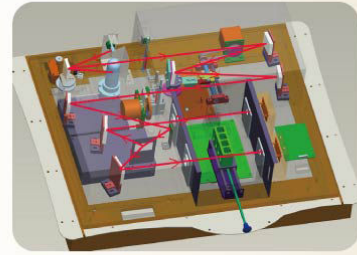
● Kinetics measurement

Specifications:		
Models	1860	1860S
Wavelength Range	190 - 1100nm	
Spectral Bandwidth	2nm, 1nm (Optional)	0.5nm, 1nm, 2nm, 4nm Variable
Optical system	Split Beam & Littrow; Grating 1200 line/mm	Split Beam & Czerny-Turner; Grating 1200 line/mm
Wavelength Accuracy	±0.1 nm (656.1 nm D2)	±0.3 nm (Whole wavelength range)
Wavelength Repeatability	±0.2nm	
Wavelength Resolution	0.1nm	
Photometric Range	-0.3 to 3A ; 0-200%T, -9999 to 9999C	
Photometric Accuracy	±0.002A@0.5A, ±0.3%T(0~100%T)	
Photometric Repeatability	±0.001A@0.5A, ±0.15%T(0~100%T)	
Stray Light	≤ 0.05%T (220 nm, NaI; 340 nm, NaNO ₂)	
Baseline flatness	±0.002A	
Stability	0.001A/h (500nm, 0A, 2nm SBW, after 1 hours warmup)	
Photometric noise	±0.0005A (500nm, 0A, 2nm SBW)	
Data Output	Options: built-in thermal printer or USB2.0 printer driver.	
	USB1.1 Connecting to computer	
Size	569x 448x203 mm	760x 760x260 mm
Weight	18.5kg	25kg

(Specifications subject to change without notice)



α-1900 and 1900S Double beam UV/Visible spectrophotometer
Features:

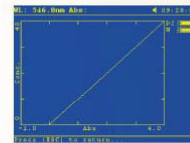


1900S Optical System

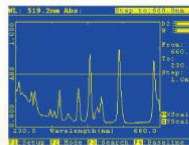
- With embedded computer and optimized optical system, convenient and easy to use
- Large screen graphic LCD display with abundant but simple instructions
- Basic photometric mode、Quantitative analysis、Qualitative analysis、Kinetics test、DNA/Protein Test、Multi-wavelength and Performance validation are available
- Alternative fitting and correction methods for Quantitative analysis
- Re-scaling axes、curve smoothing, combination, zooming and overlap、1st to 4st derivative for Qualitative analysis
- Enzyme reaction rate calculation for Kinetics
- Data output by USB2.0 printer and U disk
- Up to 1000 test data saved in local memory
- LSI's Windows®-based PC application software takes more features



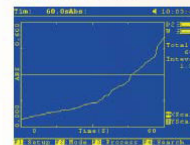
● DNA measurement



● Standard Curve



● Absorbance Peaks of holmium



● Kinetics measurement

Specifications:		
Models	1900	1900S
Wavelength Range	190 - 1100nm	
Spectral Bandwidth	2nm or 1nm	0.5nm, 1nm, 2nm, 4nm, Variable
Optical System	Double Beam & Czerny-Turner ; Grating 1200 line/mm	
Wavelength Accuracy	±0.1 nm (656.1 nm D2) , ±0.3 nm (Whole wavelength range)	
Wavelength Repeatability	±0.2nm	
Wavelength Resolution	0.1nm	
Photometric Range	- 0.3 to 3A ; 0-200%T; -9999 to 9999C	
Photometric Accuracy	±0.002A@0.5A , ±0.3%(0~100%T)	
Photometric Repeatability	±0.001A@0.5A , ±0.15%T(0~100%T)	
Stray Light	≤ 0.05%T (220 nm, NaI; 340 nm, NaNO ₂)	
Baseline Flatness	±0.001A	
Stability	±0.0006A/hr @500nm , 0A	
Photometric noise	±0.0003A	
Data Output	320×240 Dots Array Graphic LCD	
	USB2.0 printer driver(Optional)	
	USB1.1 Connecting to computer	
Size	760x 760x260 mm	
Weight	25kg	

(Specifications subject to change without notice)