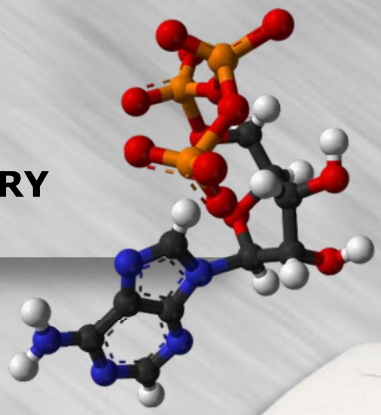
UV-VIS Double Beam Spectrophotometers

LABORATORY

BIOCHEMISTRY



DISTRIBUTOR

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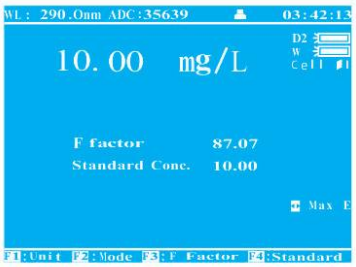
LABORATORY

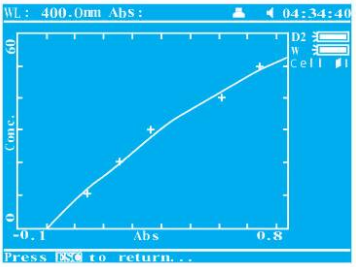
Double Beam UV-VIS Spectrophotometers

DOUBLE BEAM UV-VIS Spectrophotometers with more accuracy and flexible requirements.
Two detectors are used to measure sample and reference respectively and simultaneously for optimizing measurement accuracy. It has wide wavelength range satisfying requirement of various fields, such as biochemical research and industry, pharmaceuticals analysis and production, education, environment protection, food industry etc.



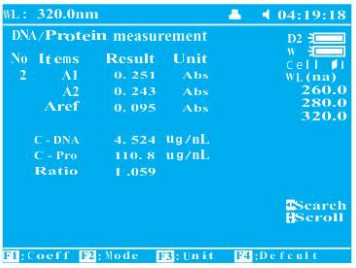
• Basic Mode

To measure the Absorbance and tranmittance



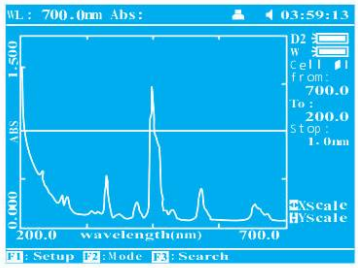
• Quantitative

1. Coefficient Method
2. Standard Curve Up to 10 Standard sample may be used to establish a curve. Four methods for fitting a curve through the calibration points : Linear fit, Linear fit through zero, Square fit and cubic fit.



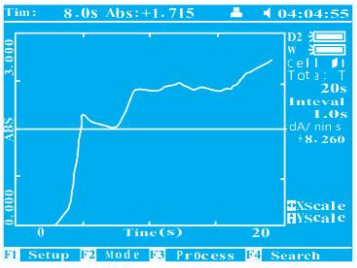
• DNA/Protein Test

Concentration and DNA purity are quickly and easily calculated:
Absorbance ratios 260nm/280nm with optional subtracted absorbance at 320 nm.
DNA concentration = 62.9xA260-36.0 X A280
Protein concentration = 1552xA260-757.3xA 280



• Wavelength Scan

1. The wavelength scan intervals are 0.1 ,0.2,0.5, 1 ,2,5 nm
2. High, medium and low scan speed are available.
   They change from 100 to 3600 nm/min
3. Wavelength are scanned from high to low so that the instrument waits at high WL. and it minimizes the degradation of UV sensitive samples.



• Kinetics

This mode may be used for time course scanning or reaction rate calculations.
Abs vs time graphs is displayed on the screen in real time
Wait time and measurement time up to 12 hours may be entered with time interval of 0.5,1,2,5,10,30 seconds and one min. Post-run manipulation includes re-scalling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying be the entered factor.

**Design & Specification are subject to change without any prior notice*
**OEM option available*

CE

ES-2800/ES-2802

Double beam UV-VIS Spectrophotometers

LABORATORY

Cod. ES-2800
With single cell holder

Cod. ES-2802
With eight cell holder

Technical features:

Optical System	Double beam (1200 lines/mm Grating)
Wavelength Range	190-1100nm
Mode	Basic, Quantitative, Wavelength Scan, DNA Protein Test, Kinetics
Scanning Speed	Fast/Medium/Low
Band Width	1 nm
Wavelength Accuracy	± 0,1nm
Wavelength Repeatability	0,1 nm
Photometric Accuracy	± 0,3 %T
Photometric Repeatability	0,2%T
Photometric Display Range	0-200 % T, -0,3-3,0 A, 0-9999 C
Stability	0,001A/h @ 500nm
Baseline Flatness	± 0,001 A
Noise	± 0,001 A
Stray Light	≤ 0,05 % T @ 220nm, 360nm
Data Output Port	USB
Printer Port	Parallel Port
Display	Graphic LCD (320x240 Dots)
Lamps	Deuterium Lamp & Tungsten Halogen Lamp
Detector	Silicon Photodiodes
Packing Dimensions	790x590x370mm (LxWxH)
Net Weight	26kg

Standard configuration:

- 4 Glass Cells
- 4 Quartz Cells
- 2 Fuse
- 1 Instrument Cover
- 1 Software Cover
- 1 Software CD
- 1 USB Cable
- 1 Operational Manual

CE

LABORATORY

ES-2904

Double beam UV-VIS Spectrophotometers

Cod. ES-2904

With variable bandwidth and eight cell holder

- Wide Wavelength range, satisfying requirements of various fields.
- Fully automated design, realizing the simplest measurement & satisfying pharmacopoeia requirements.
- Maximum of 9 Wavelength & 8 samples can be measured at one time.
- Automatic change-over between W lamp & D2 lamp
- Optimized optics and large scale integrated circuits design, light source and receiver from world famous measurement methods all add up to high performance and reliability.
- Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength methods etc, meet difference measurement requirements.
- Automatic 10 mm 8-cell holder.
- Data Output can be obtained via a printer port and a USB interface.
- Parameters and data can be saved for user's convenience.
- PC controller measurement can be achieved for more accurate and flexible requirements.

Display (Graphic LCD 320 x 240 Dots)

Soft touch keypad

Big Sample Room

Technical features:

Optical System	Double beam (1200 lines/mm Grating)
Wavelength Range	190-1100nm
Mode	Basic, Quantitative, Wavelength Scan, DNA Protein Test, Kinetics
Scanning Speed	Fast/Medium/Low
Band Width	0,5 / 1,0 / 2,0 / 4,0 nm
Wavelength Accuracy	± 0,3nm
Wavelength Repeatability	0,2 nm
Photometric Accuracy	± 0,3 %T
Photometric Repeatability	0,2%T
Photometric Display Range	0-200 %T, -0,3-3,0 A, 0-9999 C
Stability	0,001A/h @ 500nm
Baseline Flatness	± 0,001 A
Noise	± 0,001 A
Stray Light	≤ 0,05 % T @ 220nm, 360nm
Data Output Port	USB
Printer Port	Parallel Port
Display	Graphic LCD (320*240 Dots)
Lamps	Deu terium La mp & Tungsten Halogen Lamp
Detector	Silicon Photodiodes
Packing Dimensions	860x660x465mm (LxWxH)
Net Weight	26kg

Standard configuration:

- 4 Glass Cells
- 2 Quartz Cells
- 2 Fuse
- 1 Instrument Cover
- 1 Software Cover
- 1 Software CD
- 1 USB Cable
- 1 Operational Manual
- 1 Software Manual
- 1 Software Key

EXCLUSIVE DISTRIBUTOR EXCLUSIVE

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