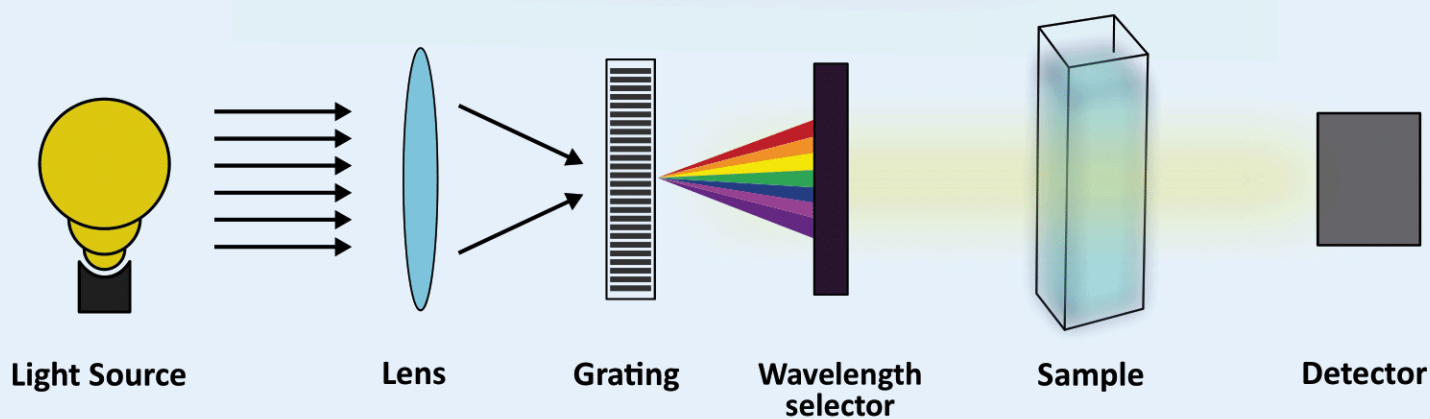
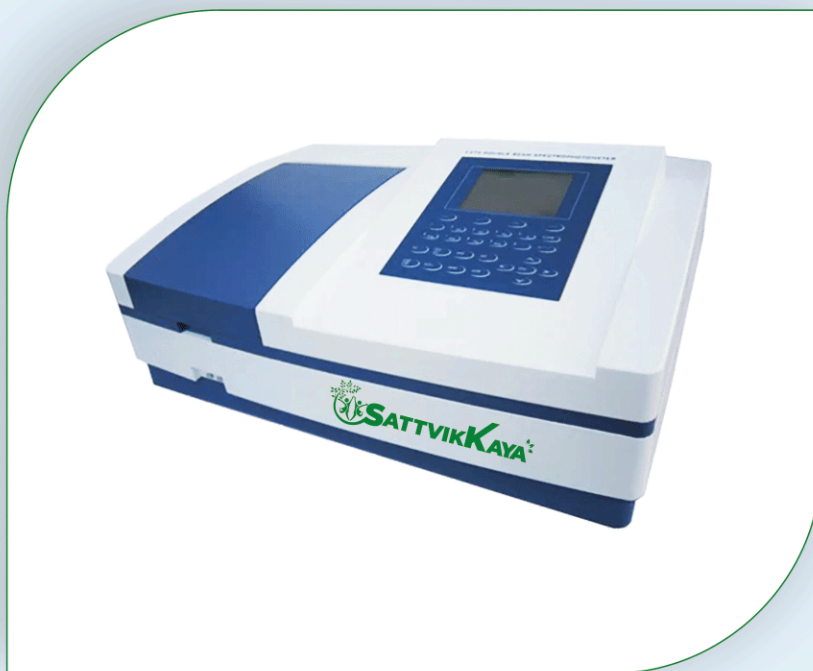




## UV VIS Double Beam Spectrophotometer SK-LE09



Address: 198, Gf, Gyan Khand-2, Ghaziabad, U.P. 201014  
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Email: [sattvikkaya@gmail.com](mailto:sattvikkaya@gmail.com) Web: [www.sattvikkaya.com](http://www.sattvikkaya.com)

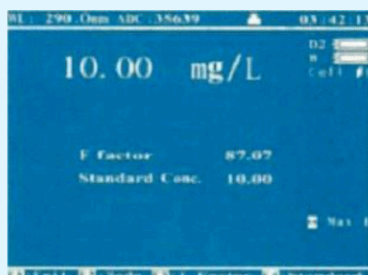
## Technical Specification

Model	UV-VIS Double Beam Spectrophotometer SK-LE09
Light Source	Deuterium & Tungsten Lamp, switching facility available
Detector	Silicon Photodiode 190nm - 1100nm /PMT (200nm - 890nm) high peak detection capability
Wavelength Range	190nm - 1100nm
Photometric Accuracy	$\pm 0.002A$ (0.5A), $\pm 0.003A$ (1A), $\pm 0.005A$ (at2A) $\pm 0.01A$ (60mg/LPDC), $\pm 0.01A$ (430nm, 600mg/LPDC)
Wavelength Accuracy	$\pm 0.1nm$ (656.1nm D2), $\pm 0.3nm$ (all range)
Wavelength Repeatability, Absorbance	$\leq 0.1nm$ (all range), $\pm 5A$
Spectral Bandwidth	Bandwidth 0.5,1,2,5, 10, 20 nm variable
Wavelength Resolution	0.1 nm
Wavelength Settings	Auto, Resolution 0.1nm with sample & reference, Double beam
Photometric Range	0~200%T, -4~4A,0~9999C
Wavelength Reproducibility	$\leq 0.05nm$ (6 measurement sat 656.1nm, SD) $\leq 0.1nm$ (all range)
Photometric Repeatability	$< 0.0001 A$ (at 0.5 A) $< 0.0001 A$ (at 1 A) $< 0.0003 A$ (at 2 A)
Photometric Noise	0.00005 Abs and better ~700 nm. Excellent signal to noise ratio
Photometric accuracy	At 1A, $\pm 0.003A$ or higher
Stray Light	0.01%T at 220, 340 nm, and $< 1\%$ at 198 nm with KCl $< 0.01\%$ (220nm NaCl, $< 0.01\%$ 340nm, 370nm NaNO <sub>2</sub> ), $< 1.0\%$ (300nm, Acetone)
Stability	$\pm 0.001A/h$ (500nm, 0A)
Scanning Speed	~5.0 to 15,000 nm/min
Baseline Flatness	$\pm 0.0005A$ or better, calibration point for sample
Wavelength sampling pitch	0.01 nm
PC Software	Window Software, real time recording
Interface	USB Port, Parallel Port connectors RS-232
Power	AC 220V/ 50Hz
Net Weight	26 -28 kg
Accessories	Quartz Cell Cuvette ~01 cm, Complete Software Package, 3.0 USB cable, Operation Manual, integrated Sphere 50-100 mm with upgradability

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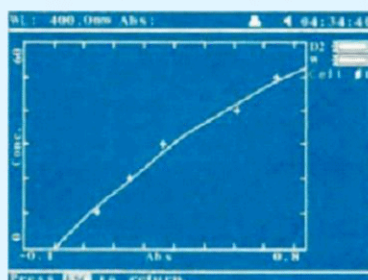
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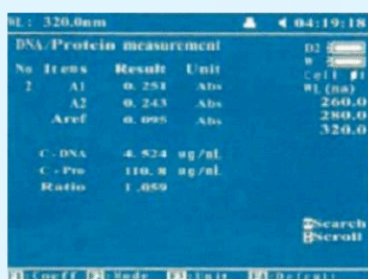
### Basic Mode

To measure the absorbance and transmittance



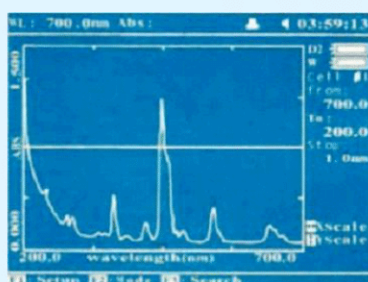
### Quantitative

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.



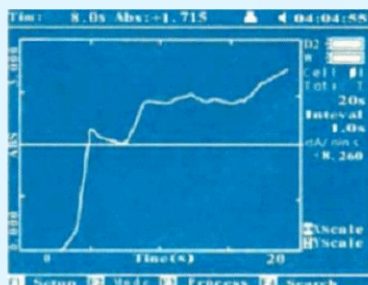
### DNA/Protein Test

Concentration and DNA purity are quickly and easily calculated: Absorbance ratios: 260 nm/280 nm with optional subtracted absorbance at 320 nm. DNA concentration  $62.9 \times A_{260} - 36.0 \times A_{280}$  Protein concentration =  $1552 \times A_{260} - 757.3 \times A_{280}$



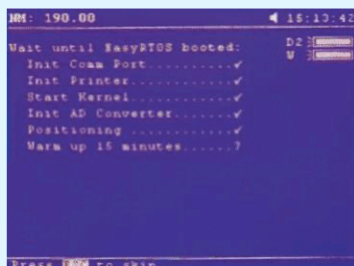
### Wavelength Scan

1. High, Medium, and low scan speed are available.
2. 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

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-scaling, curve tracking and selection of the part of the curve required for rate calculation. Rate is calculated using a linear regression algorithm before multiplying by the entered factor.



**Display (Graphic LCD  
320x240 Dots**



**Soft touch keypad**

## SALIENT FEATURES

- Double beam optical system
- Low noise and Low stray light
- Large LCD display, can display curve
- High quality grating, detector, and lamps
- Data and Curve can be stored in real-time
- Auto setting WL, auto Blank
- Lamps can be turned on/off individually
- Easy to change Pri-aligned lamps
- Reinforced baseboard and bracket assure durability

## STANDARD CONFIGURATION

Glass Cell	: 4 Nos.
Quartz cells	: 2 Nos.
Software CD	: 1 No.
USB Cable	: 1 No.
Operational Manual	: 1 No.
Software Manual	: 1 No.
Software key	: 1 No.

## FUNCTION

- Photometric: T%, Abs, reflectance mode
- Quantitative: Standard Curve
- System Utility
- WL Scan (Spectrum Scan)
- Time Scan (Kinetics)
- DNA/Protein Test