

**Product Name :**

Split Beam Spectrophotometer Wavelength Range 190-1100nm

**Product Code :**

NLAB-EDUSCHOOLEQ45049

**Description :**

Split Beam Spectrophotometer Wavelength Range 190-1100nm

**Technical Specification :**

A spectrophotometer is equipped with a 4-position cell holder for 10mm cells and features a large sample compartment for up to 100mm path length cells.

Its many functions include basic photometric mode, quantitative analysis, kinetics test, measurement and multi-wavelength tests and more.

It is ideal for students to use in college, university, and general laboratory settings.

The large 9.7" LCD touchscreen panel allows for more room to work with, and a clear and easy reading of absorbance, transmittance, factor, and concentration levels.

Built with an Android operating software and it also supports Wi-Fi, Bluetooth, and USB storage.

The multi-wavelength can work with up to 32 wavelengths.

The pre-aligned lamps are conveniently placed for easy replacement, while the optical parts are mounted on an aluminum foundation which provides a steady and firm base.

Specification:-

Wavelength Repeatability:  $\pm 0.1\text{nm}$

Photometric Range: 0 – 200% Transmittance, -0.3 – 3 Absorbance, -9999– 9999 Concentration

Wavelength Range: 190 – 1100nm

Photometric Repeatability:  $\pm 0.001\text{A}$  (0 – 0.5A),  $\pm 0.002\text{A}$  (0.5 – 1A),  $\pm 0.2\%T$  (0 – 100%T)

Stray Light:  $\pm 0.05\%T$  (220/360nm)

Scan Speed: High, medium, low (Max 2000nm/minute)

Baseline Flatness:  $\pm 0.0015\text{A}$

Output: USB port, Wi-Fi, Bluetooth

PC Software: Optional PC scanning software

Spectral Bandwidth: 2nm

Wavelength Accuracy:  $\pm 0.3\text{nm}$

Photometric Accuracy:  $\pm 0.002\text{A}$  (0 – 0.5A),  $\pm 0.003\text{A}$  (0.5 – 1A),  $\pm 0.3\%T$  (0 – 100%T)

Optical System: single beam with Littrow system (1200 lines/mm)

Stability:  $\pm 0.001\text{A/h}$  (500nm, 0A)

Noise:  $\pm 0.1\%T/3\text{min}$  (250/500nm, 0%T);  $\pm 0.3\%T/3\text{min}$  (250/500nm, 100%T)

Sample Compartment: Accommodate 5-100mm pathlength cuvette

Detector: Silicon photodiode

Dimension: 21.5" x 18.5" x 10.3"

Weight: 42 lbs

Lamps: Tungsten lamp & deuterium lamp (pre-aligned)

Display: 9.7" LCD touch screen display

Keypad: 9.7" touch screen

Power Requirements: AC 90-250V, 50/60Hz

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