

**Product Name :**

Single Beam Spectrophotometer Wavelength Range 325-1100nm

**Product Code :**

NLAB-EDUSCHOOLEQ45047

**Description :**

Single Beam Spectrophotometer Wavelength Range 325-1100nm

**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.

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.

The expanded key panel input and the large LCD screen display allow for more room to work with, and a clear and easy reading of absorbance, transmittance, factor, and concentration levels.

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

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

**Specification:-**

Wavelength Accuracy:  $\pm 1.0\text{nm}$

Wavelength Repeatability:  $\pm 0.5\text{nm}$

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

Wavelength Range: 325 - 1100 nm

Spectral Bandwidth: 4nm

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

Photometric Accuracy:  $\pm 0.003$  Absorbance (0.5 ~1A),  $\pm 0.5\%$  Transmittance (0 ~100%T)

Photometric Repeatability:  $\pm 0.002$  Absorbance (0.5~1A),  $\pm 0.2\%$  Transmittance (0 ~100%T)

Stray Light:  $\pm 0.10\%T$  @ 360nm

Weight: 32 lbs

Baseline Flatness:  $\pm 0.002A$  (PC control)

Display: LCD

Output: USB port

Dimension: 18" x 14" x 8"

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

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

Sample Compartment: Accommodate 5~100mm pathlength cuvette

Scan Speed: Max 2000nm/minute (PC control)

Detector: Silicon photodiode

Lamps: Tungsten lamp (pre-aligned)

PC Software: Optional PC scanning software

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

## Naugralabequipments

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