



KLABS KBNS-800 Bio Nano Spectrophotometer



Product Description

KLABS KBNS-800 Bio Nano Spectrophotometer is a compact, high-performance micro-volume spectrophotometer designed for rapid nucleic acid and protein quantification. The instrument utilizes a long-life Xenon flash lamp and advanced CCD detector technology to deliver highly accurate and stable measurements using sample volumes as low as 0.5 μ L.

Features

- Highly Accurate and Stable Performance
- Compact and Space Saving Design
- Long Life Xenon Flash Lamp
- Ultra-Low Volume Sample Detection
- Fast Measurement Time (<10 Seconds)
- Advanced CCD Detector Technology
- USB Connectivity
- Easy Operation and Maintenance

Application/Uses

- DNA Quantification
- RNA Quantification
- Protein Analysis
- Nucleic Acid Purity Assessment
- Biotechnology Laboratories
- Molecular Biology Research
- Pharmaceutical Research
- Academic & Research Institutes

ACCURATE
& STABLESOFTWARE
CONTROL SYS.PC
CONNECTIVITYEASY
OPERATIONUSB
CONNECTIVITY

Technical Specifications

Parameter	Details
Product Name	Bio Nano Spectrophotometer
Model Number	KBNS-800
Minimum Sample Size	0.5 µL – 2 µL (2 µL Recommended)
Path Length	0.2 mm or 1 mm
Light Source / Life	XeLn Flash Lamp / >10 ⁹ Flashes
Detector Type	3864-Element Linear Silicon CCD Array
Wavelength Range	200 – 800 nm
Wavelength Accuracy	±1 nm (TWHM at Hg 253.7 nm)
Spectral Resolution	≤3 nm (FWHM @ Hg 253.7 nm)
Absorbance Precision	0.003 Abs (1 mm Path Length)
Absorbance Accuracy	±1% (7.332 Abs at 260 nm)
Absorbance Range	0.04 – 90 Abs (at 260 nm wavelength, 10 mm equivalent)
Detection Concentration Range	2 ng/µL dsDNA – 4500 ng/µL dsDNA
Detection Time	<10 Seconds
Input Voltage	DC 24V, 2A
Power Consumption	20W
Dimensions (W × D × H)	200 × 250 × 166 mm

Standard Accessories

- Software
- Power Adapter
- USB Cable
- Instruction Manua