



NANO SPECTROPHOTOMETER BJT-4701

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MICRO-VOLUME SPECTROPHOTOMETER



Microscale sample testing with a minimum sample volume of 0.3 μ L; supports both ultramicro and cuvette measurements.

Wide detection range, up to 500 times that of a traditional spectrophotometer.

Most samples can be measured without dilution.

Direct testing with no warm-up required, suitable for container testing and routine daily measurements.

Full wavelength range of 190-1100 nm, with 1 nm wavelength accuracy and automatic scanning from 190-900 nm.

Compact and portable design, suitable for on-site testing.

Intelligent sensor measurement with no need to press buttons; test results are displayed automatically.

SPECIFICATIONS

Model	BJN-4701
Wavelength Range	190-900nm
Spectral Bandwidth	
Wavelength Accuracy	1nm
Optical Distance	0.02-1 mm continuous optical path, automatic switching
Cuvette Optical Distance	10 mm / 5 mm / 2 mm / 1 mm
Minimum Sample Size	0.3 μ L
Wavelength Resolution	1 nm
Absorbance Accuracy	$\pm 1\%$ (0.76 at 260 nm)
Absorbance Resolution	0.002 Abs (at 1 mm optical distance)
Absorbance Range	0-750 A (10 mm equivalent)
OD600 Absorbance Range	0-4.000 Abs
OD600 Absorbance Stability	[0, 3] $\leq 0.5\%$; [3, 4] $\leq 2\%$
OD600 Absorbance Repeatability	[0, 3] $\leq 0.5\%$; [3, 4] $\leq 2\%$
Nucleic Acid Detection Range	1.5-37,500 ng/ μ L (dsDNA), lower limit 1.5 ng/ μ L
Absorbance Test Range	0-15,000 ng/ μ L (dsDNA)
Protein Detection Range	0.05-1110 mg/mL (BSA), 0.03-540 mg/mL (IgG)
Linearity of Fluorescence Detection	$R^2 > 0.996$
Repeatability of Fluorescence Detection	$< 1.5\%$
Sensitivity	0.5 pg/ μ L (dsDNA)
Measurement Time	< 3 s
LCD	7-inch touchscreen, Android system
Detector	UV-enhanced CMOS linear array sensor
Light Source	Xenon flash lamp, 10 ⁹ flashes, life up to 10 years
Dimensions (W x D x H)	310 x 221 x 176 mm
Display Language	English and Chinese; other languages can be customized depending on order quantity
Alt Name	Micro-Volume spectrophotometer



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