



NANO SPECTROPHOTOMETER BGH1S1 (BSNA-102)

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MICRO-SPECTROPHOTOMETER



User-Friendly Software, Easy to Use

Graphical software operation, more intuitive interface, the results can be directly exported, easy to save, view and output data.

Micro-Volumes Measuring

Only 0.5 μ L-2 μ L sample is needed for each test. After the measurement, the samples can be recovered and the precious samples can be studied with confidence.

Long Life Light Source, Do Not Need to Warm Up

Xenon flash, life span is 10^9 (up to 10 years). No preheating, direct use, ready to test at any time.

High Concentration Detection

The maximum concentration of the detectable sample is 15000 ng/ μ L, and the sample basically does not need to be diluted.

SPECIFICATIONS

Model	BGH1S1
Old Model	BSNA-102
Wavelength range	200~800 nm
Minimum sample size	0.5~2.0 μ L
Path length	0.2 mm 1.0 mm
Light source	Xenon flash lamp
Detector type	2048-linear CCD array
Wavelength accuracy	1 nm
Spectral resolution	≤ 3 nm
Absorbance precision	0.003 Abs
Absorbance accuracy	1 % (7.332 Abs at 260 nm)
Absorbance range	0.04~90 A
Nucleic acid detection range	2~4500 ng/ μ L (dsDNA)
Measurement time	< 5 s
Dimension (WxDxH) mm	200x250x166
Weight	2.6 kg
Sample pedestal material	Aluminum alloy and quartz fiber
Operating voltage	DC 24 V \pm 2 A
Operating power	20 W
Standby power	5 W
Software compatibility	Win 7, Win XP, Win 8
Cuvette Mode (OD600 Measurement)	
- Light source	/
- Wavelength range	/
- Absorbance range	/
Fluorometer Mode	
- Sensitivity	/
- Linear dynamic range	/
- Repeatability	/
Alt Name	Micro-Spectrophotometer

FEATURES

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High Concentration Detection

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Convenient and Easy to Use

Directly point the sample on to the sample plate without dilution or cuvette. The sample concentration can be measured as 50 times of the conventional uv-visible photometer, and the result can be directly output as the sample concentration.

Fast Detection

No dilution or cuvette needed in the detection process; 5 s can complete the test and display the result.

Single Machine Operation, Convenient and Efficient

It is a micro-spectrophotometer with full wavelength (200-800 nm).

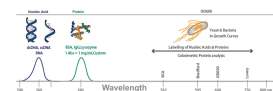
The detectable sample is 50 times that of conventional UV / Vis spectrophotometer, and maximum detection concentration up to 4500 ng/ μL (dsDNA).

High resolution CCD array detector, 5 s can complete the detection, display the results.

Long life pulse xenon lamp light source.

The need to connect PC computers to run detection, data saving, printing, sorting are very convenient.

APPLICATIONS



Different Fluorescence Channels:

UV Channel:

Excitation wavelength: 365 ± 20 nm

Common reagent: Hoechst 33258, 4-MU, EnzChek Caspase

Nucleic acid quantification, plant GUS reporter gene detection, apoptosis detection

Blue Channel:

Excitation wavelength: 460 ± 20 nm

Common reagent: PicoGreen, oligreen, RiboGreen, GFP, Protein, Fluorescein

dsDNA, ssDNA, GFP, gene detection, fluorescein detection, protein quantification.

Green Channel:

Excitation wavelength: 525 ± 20 nm

Common reagent: Rhodamine, Cy3, RFP Vybrant Cytotoxicity

Rhodamine detection, Cy-3 fluorescence labeling detection, RFP gene detection, cytotoxicity detection.

Red Channel:

Excitation wavelength: 625 ± 20 nm

Common reagent: Cy5, Quant-iT RNA

Cy-5 fluorescence labeling detection, RNA quantification

MORE INFO

Fluorescence Detection Mode (Can Be Customized)

Model	Nano500U (optional)	Nano500 (standard)	Nano500G (optional)	Nano500R (optional)
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Channel	UV	Blue	Green	Red
Excitation wavelength	365±20 nm	460±20 nm	525±20 nm	625±20 nm
Emission wavelength	420-480 nm (60 nm)	525-570 nm (45 nm)	575-640 nm (65 nm)	670-725 nm (55 nm)

Fluorescence Detection Mode - Specification

Parameter	Specification
Light source	LED
Dynamic range	5 orders of magnitude
Linearity	R≥0.995
Detector	Photodiode
Repeatability	≤1.5 %
Stability	≤1.5 %
Sensitivity	dsDNA: 0.5 pg/μL
Measurement speed	3 s (once)



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