

Micro-Volume UV/Vis Spectrophotometers

Conserve precious samples

- Ideal for DNA, RNA, and protein measurements
- Detect DNA concentrations as low as 1.5 ng/μL
- Save your methods and results to USB memory stick
- Icon-driven software with large graphical display and intuitive navigation

Genova Plus Spectrophotometer (model 83070-00) measures DNA concentrations and purity ratios using wavelengths recorded at 260, 280 and 230 nm, with an optional correction at 320 nm. Easily measure photometrics, concentration, multi-wavelength, spectrum scanning, quantitation, and kinetics.

Unit is preprogrammed with methods for protein analysis in addition to nucleic acid concentrations. The OD measurement mode measures optical density at 600 nm for cell harvesting. The purity scan across the entire wavelength range from 198 to 1000 nm identifies impurities.

Use the TrayCell accessory (83070-29) to measure sample volumes as low as 0.7 μL for RNA, DNA, and protein measurements requiring 1:10 or 1:50 dilutions.

Genova Nano Spectrophotometer (model 83070-02) offers the same features as 83070-00 plus comes pre-installed with a pedestal platform which allows you to measure sample volumes as low as 0.5 μL. The versatile Genova Nano offers a high degree of accuracy and reproducibility in less than 6.5 seconds. When your reading is complete, simply wipe the sample with a microfiber cloth to remove all trace of the sample. The ease of cleaning allows faster changeover between samples, increasing sample throughput.

What's included: Model 83070-00 includes a 10 x 10 mm cuvette holder, 4 GB USB memory stick, 100 disposable micro-cuvettes, and universal power supply. Model 83070-02 includes a micro-volume accessory, 10 x 10 mm cuvette holder, 4 GB USB memory stick, and universal power supply.



Spectrophotometer
83070-02



Program and measure easily with icon display

Description		Genova Plus	Genova Nano
Catalog number		GY-83070-00	GY-83070-02
Sample mode(s)		Cuvette	Cuvette and pedestal
Minimum sample size		0.7 μL†	0.5 μL at 2.0 mm, 1.0 μL at 0.5 mm
Maximum sample size		5 mL	5.0 μL
Bandwidth			5 nm (spectral)
Path length		10 mm	0.2 or 0.5 mm (auto-ranging)
Wavelength	Transmittance		0 to 199.9%
	Range		198 to 1000 nm
	Resolution		±2 nm
	Accuracy		1 nm
Detection limit		—	2.0 ng/μL (dsDNA) at 0.2 mm pathlength
Measurement	Range	–0.300 to 2.500 A (10-mm pathlength equivalent = –15.0 to 125.0 A)	
	Precision	—	<0.005 A between 0 and 1 A (at 260 nm and 0.5 mm)
	Accuracy	±1% T, ±0.01 A at 1.000 A	±2% at 1 A
Maximum concentration		—	6000 ng/μL (dsDNA)
Memory		Up to 312 methods (including preprogrammed methods)	
Input/Output		USB, analog, RS-232, and optional integral printer	
Power (VAC, Hz)		90 to 260, 50 to 60	
Price			

†The 0.7 μL sample volume requires TrayCell accessory 83070-29 sold separately below.

Accessories

[GY-83070-29](#) TrayCell accessory for Genova Plus (83070-00), for microvolume samples from 0.7 μL to 5 μL.

[GY-83070-31](#) Automatic eight-cell cuvette holder for multiple sample measurements. Accepts 10 x 10 mm pathlength cuvettes

[GY-83070-33](#) Sipper pump, requires flow-through cuvette

[GY-83070-35](#) Peltier temperature controller, 20 to 50 °C

[GY-83070-37](#) Combined sipper pump/Peltier temperature control

[GY-83070-39](#) Printer for instant results.

Fits into top of spectrophotometer to save space

[GY-83070-41](#) Cuvette holder, 10 x 10 mm pathlength

[GY-83070-43](#) Test tube and cuvette holder, 13/16/24-mm diameter x 100 mm height; compatible with 10-mm square cuvettes

[GY-83070-45](#) Test tube and cuvette holder, 13-mm dia; compatible with 10-mm square cuvettes

[GY-83070-47](#) Cuvette holder, 10 x 100 mm pathlength

[GY-83070-49](#) Micro-cuvette holder, for small sample volumes down to 50 μL

[GY-83070-51](#) Water-heated cuvette holder, 10 x 10 mm pathlength (requires heated circulating bath for operating temperatures from 5 to 50°C)

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