

NanoQ

Extremely fast and easy quantitative analysis of nucleic acid and protein by UV-Vis absorption spectrophotometry.

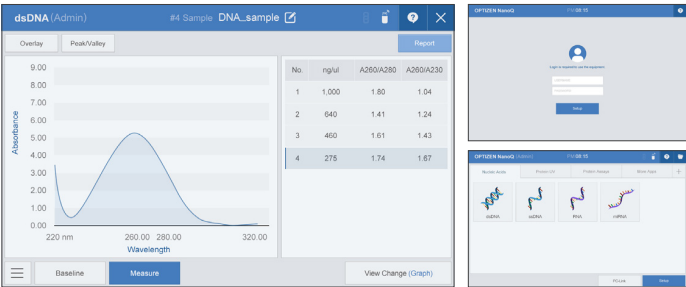
NanoQ Series measure micro-volume sample's concentration, namely nucleic acid (dsDNA, ssDNA, RNA), protein (Lysozyme, BSA, IgG) and equipped with more than 20 different measuring mode.

Note NanoQ Plus provides pedestal and cuvette mode, but NanoQ does not support cuvette mode.



Full Spectrum Analysis

NanoQ series measure the absorbance at a spectrum range of UV-Vis (190 - 850 nm) in seconds with an array type spectrophotometer technology using Xenon lamp and CMOS-sensor(2048 pixels). NanoQ series also provide various algorithms like Peak/Valley detection.



Measuring Mode : Nucleic Acid(dsDNA, ssDNA, RNA), Protein(Lysozyme, BSA, IgG), OD600, etc.

Measurement menu configuration		
	Menu	Factor
Nucleic Acid (ng-cm/μl)	dsDNA	50
	ssDNA	33
	RNA	40
	miRNA	33
	Custom	Input
Protein (g-cm/l)	BSA	1.5
	SA	1.49, 1.72
	IgG	0.71, 0.74
	IgE Human	0.65
	Lysozyme	0.38
	OD1	1
OD600	OD600	1

Specifications		
Product Name	NanoQ Plus	NanoQ
Photometrics System	Microvolume & Cuvette Spectrophotometer	Microvolume Spectrophotometer
Light Source(s)	Xenon flash lamp	
Lifetime	Up to 10 years	
Detector	2048-element CMOS linear image sensor	
Spectral Resolution	1.5 nm (FWHM at Hg 253.7 nm)	
Wavelength Range	190 to 850 nm	
Wavelength Display (setting)	1 nm	
Wavelength Accuracy	± 1 nm	
Baseline Correction Wavelength	Selectable (190 to 850 nm)	
Absorbance Precision	0.002 AU (0.5 mm path) or 1%	
Absorbance Accuracy	3% (at 0.97A at 302 nm)	
Measurement Time	Less than 8 seconds	
Microvolume	Minimum Sample Volume	1 μ L
	Pathlength	0.03 to 1.0 mm
	Photometric Range	0.02 to 550 A (10mm equivalent)
	Detection Range	2 - 27,500 ng/ μ L (dsDNA) / 0.06 - 825 mg/mL (BSA) / 0.03 - 400 mg/mL (IgG)
	Pedestal Compartment Material	303 stainless steel and quartz fiber
Cuvette	Photometric Range	0 to 2 A
	Display Range	0 to 3 A
	Detection Limit	0.2 - 150 ng/ μ L (dsDNA)
		0.006 - 5 mg/mL (BSA)
		0.003 - 2 mg/mL (IgG)
	Center Height (Z-height)	8.5 mm
	Cell Types	12.5 x 12.5 mm (Outside dimension)
CPU	Octa Core ARM® CortexTM-A53 Processor	
Storage	32 GB	
Glove Compatibility	Compatible with lab gloves	
Connectivity	4 x USB-A ports, Ethernet, RS232	
Display	7-inch (resolution: 1280 * 800)	
Operating System (OS)	Android	
Dimensions(W*D*H)	216 mm * 290 mm * 165 mm	
Weight	3.0 kg	