

Analytical and Measuring Instruments



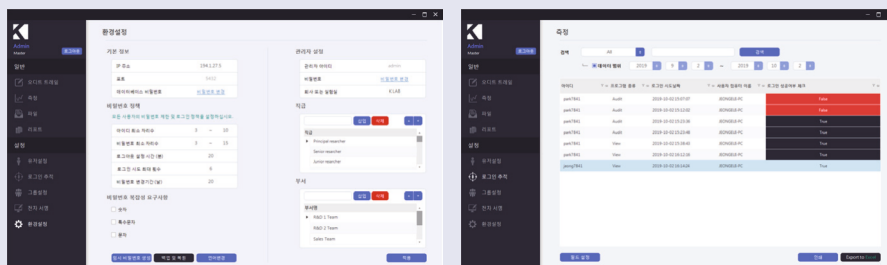
OPTIZEN SERIES

UV-Vis & Microvolume Spectrophotometer



OPTIZEN NanoQ Plus

- Wavelength Range (190~850 nm)
- Xenon flash lamp
- Absorbance Accuracy
- 3% (at 0.97A at 302 nm)
- Maximum Concentration
- 16,500 ng/μL (dsDNA), 400 mg/mL (BSA)



OPTIZEN Secure

OPTIZEN Secure is Windows® PC software can manage, check and trace user activities(Login, measurement, print) at OPTIZEN View. You need OPTIZEN View(CFR mode included) to use OPTIZEN Secure.

OPTIZEN NanoQ

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

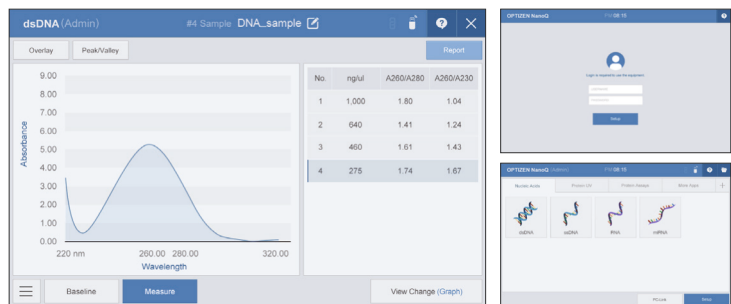
NanoQ is wide wavelength microvolume spectrophotometer with modern design and user convenience UI. It provides microvolume sample measuring mode and cuvette measuring mode so can measure wide range of concentration. You can easily set over 20 measuring modes.

Note The OPTIZEN NanoQ Plus model provides pedestal and cuvette measuring mode, but the OPTIZEN NanoQ does not.



Full Spectrum Analysis

OPTIZEN NanoQ can measure the absorption spectrum UV-Vis (190 - 850 nm) in seconds using by array type spectrophotometer technology with Xenon lamp and CMOS-sensor(2048 pixels). It also provides 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-/μℓ)	dsDNA	50
	ssDNA	33
	RNA	40
	miRNA	33
	Custom	Input
Protein (g-)	BSA	1.5
	SA	1.49, 1.72
	IgG	0.71, 0.74
	IgE Human	0.65
	Lysozyme	0.38
	OD1	1
	OD600	1

Specifications		
Product Name	OPTIZEN NanoQ Plus	OPTIZEN NanoQ
Photometrics System	Microvolume Spectrophotometer	
Light Source(s)	Xenon flash lamp	
Lifetime	Up to 10 years	
Detector	CMOS linear image sensor (2048 pixels)	
Spectral Bandwidth	1.0 nm (FWHM at Hg 253.7 nm)	
Wavelength Range	190 - 850 nm	
Wavelength Display (setting)	1 nm	
Wavelength Accuracy	± 1 nm	
Microvolume	Minimum Sample Volume	1 µL
	Photometric Range	0.02 - 330 A (10mm equivalent)
	Detection Limit (Microvolume)	2 ng/µL (dsDNA) 0.06 mg/mL (BSA) 0.003 mg/mL (IgG)
	Maximum Concentration	16,500 ng/µL (dsDNA), 400 mg/mL (BSA)
Cuvette	Photometric Range	0 - 2 A
	Detection Limit	0.2 ng/µL (dsDNA) 0.006 mg/mL (BSA) 0.0003 mg/mL (IgG)
	Center Height (Z-height)	15 mm
	Heating (Optional)	37 °C
Absorbance Precision	0.002 A (0.5 mm path) or 1%	
Absorbance Accuracy	3% (at 0.97A at 302 nm)	
Measurement Time	< 8 seconds	
Software Compatibility	Windows 7 and 10	
Touchscreen	Multipoint capacitive touch	
CPU	Octa Core ARM Cortex-A53 Processor	
Storage	32 GB Internal Storage	
Glove Compatibility	Compatible with lab gloves	
Connectivity	4 x USB ports, Ethernet, and RS-232	
Display	7-inch, 1280 x 800 HD color display	
Operating System (OS)	Android	
Footprint (W D)	216 290 mm	
Weight	3.0 kg	
PC Software	(optional) OPTIZEN View for Windows	

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