Performance Accelerated

Accurate

Patented Sample Compression Technology™ with guaranteed fixed path lengths allows for unmatched accuracy and precision. Independent from surface tension and free from evaporation. Lifetime accuracy guaranteed.

Consistent Results

Reliably analyze up to 12 samples per run over a wide concentration range (2 to 8,000 ng/µl for dsDNA). In comparison to other technologies, the NanoPhotometer® N120 provides trustworthy data for the accurate determination of 260/280 and 260/230 ratios. Blank Control™ and Sample Control™ monitor the entire measurement process and will highlight readings that are not within the expected purity range.

Easy

NPOS Operating System: intuitive graphical user interfaces providing one-step method access, pre-programmed and customizable applications based on the ultimate level of data security. Import and export of sample IDs from Excel files is available for fast and automated sample mapping.

Flexible

Control your NanoPhotometer® via touchscreen/ tablet/computer. Equipped with WiFi, USB A/B, HDMI, and LAN interface connections. Define and store your own data and methods and retrieve them through the NanoPhotometer® Network Drive. Connection and control via LIMS is available as an option.

Detection Range	Min	Max	Mean %CV*
dsDNA	2 ng/µl	8,000 ng/µl	0.77%; 312.9 ng/µl
BSA	0.06 mg/ml	230 mg/ml	1.01%; 5.19 mg/ml

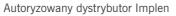
*Based on 12 samples measured 16 times



Technical Specifications

NanoVolume Performa	ance	Optical Specifications				
Detection Range dsDNA	2 - 8,000 ng/µl	Wavelength Scan Range	200 - 900 nm			
Detection Range BSA	0.06 - 230 mg/ml	Measure Time For Full Scan Range	1.7 - 2.5 sec per sample			
Sample Volume	2 - 3.5 μΙ	J	± 0.2 nm			
Photometric Range (10 mm equivalent)	0.04 - 160 A	Wavelength Reproducibility Wavelength Accuracy	± 0.75 nm			
Path Length	1 and 0.125 mm	Bandwidth	< 2.5 nm			
Dilution Factor	10 and 80	Absorbance Reproducibility	< 0.004 A (1 mm path) @ 280 nm			
General Specifications		Absorbance Accuracy	< 1.75% @ 0.7 A @ 280 nm of the reading			
Main Body Size	200 x 200 x 120 mm	Stray Light	< 1% @ 240 nm using NaI			
Weight	5.0 - 5.2 kg depending on configuration	Optical Arrangement	1 x 3648 CCD Array			
Operating Voltage	90 - 250 V, 50/60 Hz, 90 W, 18/19 VDC	Lamp	Xenon flash lamp			
Display	1024 x 600 pixels Touchscreen glove compatible	Lifetime	10° flashes, up to 10 years			
Optional rechargeable lithium ion battery:		Processing Power & Compatibility				
Built-in Battery Pack	47.5 Wh, 3.3 Ah, 3 h Min. charging cycles: 800	Operating System	Linux based NPOS			
Certification	CE, IEC 61010-1:2012 and EN 61326-1:2013	Onboard Processor	Intel Celeron dual core 2.4 GHz			
Battery Certification	IEC 62133 and UN38.3 transport test	Internal Data Storage	128 GB			
In & Output Ports	2x USB A, USB B, HDMI, Ethernet, WiFi	0.0	Windows 7, 8, 10 (32 & 64 bit) OS X, iOS Android OS			
Security	Slot for Kensington lock	Software Compatibility				

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Polska

A-BioTech Kompleksowe Wyposażanie Laboratoriów

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Implen GmbH ISO 9001:2015



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NanoPhotometer® N120

Microvolume High Throughput Meets Regulatory Compliance

Wielokanałowy spektrofotometr do pomiaru w nanokropli DNA, RNA, miRNA, białek



NanoPhotometer® N120

12 Channel NanoVolume

Fast High Throughput

With full scan capability range from 200 - 900 nm for rapid and complete sample analysis in as little as 1.7 seconds per sample, the NanoPhotometer® N120 record breaking design will exceed expectations. Measure 96 samples up to 100 times faster with 33% less operational steps required when compared to other scanning measurement methods such as most microplate readers. In addition to saving hands-on time with the one step Auto Sample feature, you attain detailed information for each sample – including full high resolution scan results along with sample purity ratios.

Stand-Alone Operation

Save valuable bench space. An integrated computer with an Intel Celeron Processor and 128 GB of data storage eliminates the need for a dedicated external computer. The compact, all-in-one design including a 7" glove compatible touch display and a built-in battery pack significantly reduces the bench top footprint of the device. Multi sample spectroscopy can now be taken under a laminar flow hood/clean bench, shared between labs or out into the field.

Trusted Technology

For over a decade prestigious biological, chemical and pharmaceutical companies as well as research organizations around the globe have relied on Implen spectrophotometers. The NanoPhotometer® is the most innovative line of microvolume UV/Vis spectrophotometers – cited by thousands of scientific publications worldwide.

Regulatory Compliance

Easy Sample Application

7" Color Touchscreen

The NanoPhotometer® N120 features our unique and proprietary 12 Point Technology™ which consists of several positioning guides for single and multi-channel pipettes. Patented illuminated sample windows and animated sample processing grid ensures convenient and error free sample application. The design is compatible with various multi-channel pipettes and supports the user while positioning the tips on the sample windows.

CFR21 Software

The CFR21 software package provides compliance with FDA 21 CFR Part 11 requirements and is an optional software tool ideal for GxP laboratories, which require proper electronic record keeping. The software includes user account management with individual password protected Role Based Access Control (RBAC), electronic signatures, data integrity, security, and audit trail functionality.

Maintenance

Guaranteed lifetime accuracy for peace of mind with no preventive maintenance or recalibration required due to precisely defined path lengths in a sealed optics block. The measurement environment consists of scratch-resistant and inert quartz.

Installation Qualification and Operation Qualification (IQ/OQ)

Our IQ/OQ package is offered for compliance with international standards in regulated environments and provides conforming data to document and verify that your instrument is installed and functioning according to its intended use and within specifications. The system suitability test is performed with a non-toxic liquid NIST traceable secondary standard that absorbs at a wavelength of 280 nm.

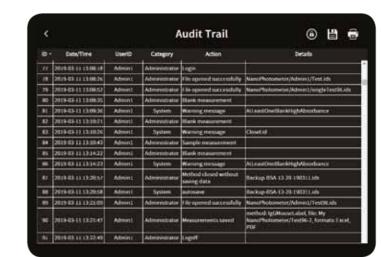
2 μl Sample Volume Illuminated Sample Window Positioning Guide Easy to Clean Surfaces Zamów bezpłatne testowanie N120 Demo!

Electronic Signature

Instrum	ent Type	N120								
Version		NPGS 4.0 1323G			l.					
Sens N	umber :	M120100								
Seiffest.			600							
Actosavi										
Resson			9	Beet/See/Print						
User ID.		bjores			115H1875					
User Na	rher		Beoly Jones			Mark Smith				
edign Dr	ale:	2019-02-26			2019 02:26 16:49:32					
eSign Time			09:23:31							
Petamet	ter:									
Method		Protein UV		West	Waveringth (NW)		280			
Type		85	BSA MultiCharrani		Backy	Background Correction Air Bubble Recognition		320 (
Mode		W			Air bu			DH		
Protein Factor		1.500			Samp	Sample Loading			Hormody	
Politica	Sample ID	Content	Core.	Debt.	A230	A260	A280	A320	A260/A280	Distric
ADI	BURGIT	8	0.0000	mgray	0.000	0.000	8.000	0.000	0.000	
AGE	burst	10	0.0000	malitel	0.000	0.000	11.000	0.000	0.000	
803	26,803	8	10000	mgrowi	0.000	0.000	0.000	0.000	0.000	
No.	SPLOT	1	0.0090	mg/mi	0.024	tions	2.009	0.002	12342	10
802	375.00	6		drop (red)	0.004	0.005	-0.014	0.003	5,000	10
BOX :	375,03	1		matri	0.003	0.007	-0.006	0.004	1.500	10

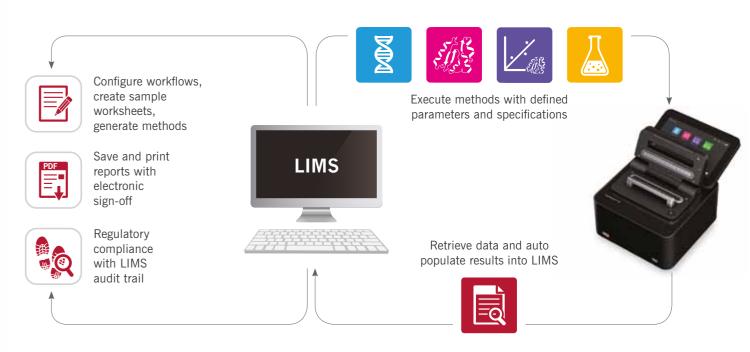
Measurement data are saved by confirming User ID and password. Saved files provide the user name/author, User ID, date and time for proper electronic record keeping. IDS and PDF files cannot be altered and ensure data integrity.

Audit Trail



The audit trail automatically records all actions and preference changes in an audit log. The audit log contains a sequence ID, time stamp, user ID and category for each action. Audit trails can be saved as a PDF and printed by an Administrator for documentation purposes.

LIMS Integration



Add more efficiency to your workflow by integrating the NanoPhotometer® with your LIMS to control processes, eliminate errors and save time. The NanoPhotometer® can be integrated with any LIMS software provider.