

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.

Easy Sample Application

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.

7" Color Touchscreen

Easy to Clean Surfaces



Regulatory Compliance

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)

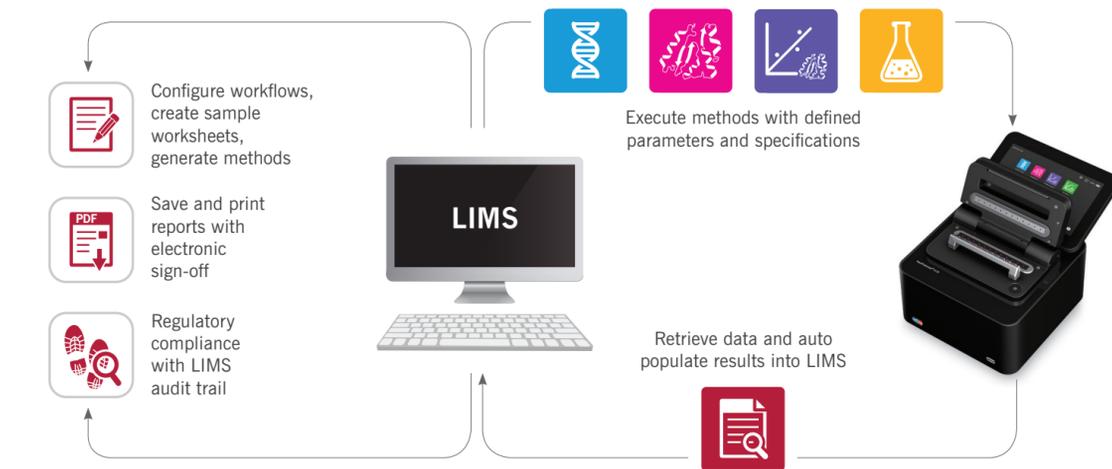
Our IQ/OQ package is offered for compliance with international standards in regulated environments and provides conforming data to document and verify that your instrument is installed and functioning according to its intended use and within specifications. The system suitability test is performed with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

Electronic Signature

Implen NanoPhotometer®												
Instrument Type	N120											
Version	NPOS 4.0 13220											
Serial Number	M120100											
Selftest passed	2019-02-25 15:56											
Autosave	No											
Reason	Author	Read/Save/Print										
User ID	bjones	msmith										
User Name	Becky Jones	Mark Smith										
eSign Date	2019-02-26	2019-02-26										
eSign Time	09:23:31	16:49:32										
Parameter												
Method	Protein UV			Wavelength (nm)			280					
Type	BSA			Background Correction			320 nm					
Mode	MultiChannel			Air Bubble Recognition			Off					
Protein Factor	1.500			Sample Loading			Horizontally					
Position	Sample ID	Content	Conc.	Units	A230	A260	A280	A320	A260/A280	Dilution		
A01	BLK01	B	0.0000	mg/ml	0.000	0.000	0.000	0.000	0.000	0.000		
A02	BLK02	B	0.0000	mg/ml	0.000	0.000	0.000	0.000	0.000	0.000		
A03	BLK03	B	0.0000	mg/ml	0.000	0.000	0.000	0.000	0.000	0.000		
B01	SPL01	S	0.0090	mg/ml	0.024	0.016	0.009	0.003	2.167	10		
B02	SPL02	S	...	mg/ml	-0.004	-0.003	-0.014	-0.003	0.000	10		
B03	SPL03	S	...	mg/ml	-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.

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.

Audit Trail

ID	Date/Time	UserID	Category	Action	Details
77	2019-03-11 13:08:18	Admin1	Administrator	Login	
78	2019-03-11 13:08:26	Admin1	Administrator	File opened successfully	NanoPhotometer/Admin1/Test1.ids
79	2019-03-11 13:08:52	Admin1	Administrator	File opened successfully	NanoPhotometer/Admin1/singleTest96.ids
80	2019-03-11 13:09:25	Admin1	Administrator	Blank measurement	
81	2019-03-11 13:09:36	Admin1	System	Warning message	At least One Blank High Absorbance
82	2019-03-11 13:10:21	Admin1	Administrator	Blank measurement	
83	2019-03-11 13:10:26	Admin1	System	Warning message	Close id
84	2019-03-11 13:10:43	Admin1	Administrator	Sample measurement	
85	2019-03-11 13:14:22	Admin1	Administrator	Blank measurement	
86	2019-03-11 13:14:23	Admin1	System	Warning message	At least One Blank High Absorbance
87	2019-03-11 13:20:57	Admin1	Administrator	Method closed without saving data	Backup: BSA-13-20-190311.ids
88	2019-03-11 13:20:58	Admin1	System	autosave	Backup: BSA-13-20-190311.ids
89	2019-03-11 13:21:09	Admin1	Administrator	File opened successfully	NanoPhotometer/Admin1/Test96.ids
90	2019-03-11 13:21:47	Admin1	Administrator	Measurements saved	method: IgG/Mouse/Label, file: My NanoPhotometer/Test96-2, formats: Excel, PDF
91	2019-03-11 13:22:49	Admin1	Administrator	Logout	

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.