NanoPhotometer® N30-Touch Extension Packages

PERFORMANCE Package

Expand your device's detection range for both DNA and protein measurements. This upgrade package also includes the expanded full spectrum scan mode from 200 to 900 nm for all measurements.

	N30-Touch	PERFORMANCE Package
Detection Range (dsDNA)	5 – 1,500 ng/µl	1 – 16,500 ng/µl
Detection Range (BSA)	0.15 – 44 mg/ml	0.03 – 478 mg/ml
Full Spectrum Scan Range	200 – 650 nm	200 – 900 nm

APPLICATIONS Package

Unlock the full potential of your device with our APPLICATIONS package which grants you unparalleled access to our entire range of intuitive applications:

Protein Assays

Quantify proteins using preprogrammed colorimetric assays including BCA, Bradford and Lowry*.

Kinetics

Measurement of change in absorbance as a function of time at a fixed wavelength.

OD600 Cell Density

Absorbance readings at 600 nm. Preprogrammed calculation method to determine cells/ml is available.

Additional Features

Dye Label measurements and state-of-the-art features such as our Sample Control™ Technology which identifies sample impurities, potential contaminations, turbidity, lint residue, and air bubbles.

Wavescan

Record the absorption (Abs) spectrum for a custom range between two user defined wavelengths. Automatic identification of peak height and position to determine the characteristics of any sample absorbing between 200 and 650 nm (up to 900 nm*).

Standard Curve

Generate a multipoint curve at a single user specified wavelength between 200 and 650 nm (up to 900 nm*) to quantify unknown samples.

Other Available Apps

Wavelength, Concentration, Absorbance Ratio, Custom

*In combination with the PERFORMANCE package

CONNECTIVITY Package

For ultimate flexibility in device control and data management, our CONNECTIVITY package ensures secure and streamlined laboratory workflows.
This package extends your device capabilities to include Wi-Fi®, USB A/B, HDMI, and LAN connections, allowing remote unit control via PC/Tablet/Smartphone, and network printing.
LIMS integration available via REST API and Push Service.
An impressive 64 GB of onboard data storage tops this package off as a must-have for a future-proof laboratory.

Wi-Fi® HotSpot LAN — Endless Connectivity

LIMS — Data Export/Saving

Data Export/Printing

Technical Specifications

NanoVolume Performance	
Detection Range dsDNA, BSA	5 – 1500 ng/µl, 0.15 – 44 mg/ml PERFORMANCE Package: 1 – 16,500 ng/µl, 0.03 – 478 mg/ml
Minimum Sample Volume	0.3 µl
Photometric Range (10 mm equivalent)	0.1 – 30 A PERFORMANCE Package: 0.02 – 330 A
Path Length	0.67 and 0.07 mm
Dilution Factor	15 and 140
Optical Specifications	
Wavelength Scan Range	200 – 650 nm PERFORMANCE Package: 200 – 900 nm
Measure Time For Full Scan Range	2.5 – 4.0 sec
Wavelength Reproducibility	± 0.2 nm
Wavelength Accuracy	± 0.75 nm
Bandwidth	< 1.5 nm
Stray Light	< 0.5% @ 240 nm using NaI
Absorbance Reproducibility	< 0.002 A @ 0 – 0.3 A @ 280 nm CV < 1% @ 0.3 – 1.7 A @ 280 nm
Absorbance Accuracy	< 1.75% @ 0.7 A @ 280 nm
Optical Arrangement	1x 4096 CMOS Array
Lamp	Xenon flash lamp
Lifetime	10^9 flashes, up to 10 years
Processing Power & Compatibility	
Operating System	Linux based NPOS
Onboard Processor	Intel Celeron dual core 2.4 GHz
Internal Data Storage	CONNECTIVITY Package: 64 GB
Control Options	Onboard with built-in Touchscreen CONNECTIVITY Package: PC/Tablet/Smartphone
Software Compatibility	CONNECTIVITY Package: WINDOWS 8, 10, 11 (32 & 64 BIT) OS X (INTEL X86 AND APPLE M1) IOS AND ANDROID OS
General Specifications	
Main Body Size	200 x 200 x 120 mm
Weight	3.8 – 5.2 kg depending on configuration
Power Requirements	90 – 250 V ± 10%, 50/60 Hz, supplied external power supply: 90 W, 18/19 V DC; typ. power consumption: 20 W
Display	1024 x 600 pixels Glove compatible touchscreen
Certification	CE, IEC 61010-1:2012 and EN 61326-1:2013
Additional Data Input	Mouse & keyboard options
Security	Slot for Kensington lock

Features and specifications are subject to change without notice.

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Ordering Information

Article Number	Product Description
N30-Touch	Implen NanoPhotometer® N30-Touch UV/Vis Spectrophotometer
UP-N30-PER	Performance Upgrade Package for N30-Touch
UP-N30-APP	Applications Upgrade Package for N30-Touch
UP-N30-CON	Connectivity Upgrade Package for N30-Touch

Contact us today to join the growing community of satisfied customers who have discovered the benefits of our devices.

Implen GmbH
ISO 9001:2015

Implen GmbH ISO 9001:2015

China

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NanoPhotometer® N30-Touch

Your Gateway to Premium UV/Vis Spectroscopy

Made in Germany

NanoPhotometer® N30-Touch

NanoVolume

Trusted Technology

With over 10,000 units installed globally, Implen spectrophotometers have emerged as a benchmark of excellence among leading biological, chemical, and pharmaceutical firms and research institutions. The NanoPhotometer® represents the forefront of microvolume UV/Vis spectrophotometers, recognized in more than 15,000 scientific publications worldwide.

High Quality

Experience the pinnacle of innovation and reliability with our state-of-the-art device, meticulously crafted through the precision of German engineering and manufacturing, ensuring unrivaled performance and lasting quality.

Investment Security

The NanoPhotometer® N30-Touch PERFORMANCE, APPLICATIONS AND CONNECTIVITY extension packages allow you to expand your device capabilities for future applications.

Recalibration-Free

Sealed optics without path length drift eliminate the need for costly and time-consuming recalibrations. Durable, inert surfaces provide easy-to-clean, scratch-resistant surfaces that do not require reconditioning.

Fast

Power on and instantly measure without lamp warm-up time. Full scan capability from 200 – 650 nm (up to 900 nm*) provides rapid and complete sample analysis in only 2.5 – 4 sec. Save 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.

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.

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.

Convenient Data Management

Save time by storing your results directly to a USB device in Implen IDS format, PDF or as Excel format files.

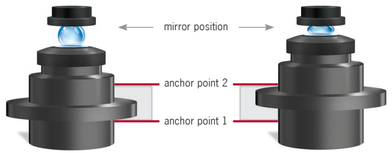
*Available with our PERFORMANCE package

Best in its Class

Sample Compression Technology™

Samples are compressed to form a capillary film between two scratch-resistant and metal-free quartz surfaces.

- Allows for very small sample volumes (0.3 µl)
- Eliminates the need for surface tension
- Provides a contained sample environment to prevent evaporation during the entire measurement process
- Allows for accurate readings of proteins and the ability to use organic solvents as well as detergent buffers.



True Path Technology™

Recalibration-free over the lifetime of the instrument.

- Sealed optics providing exact pathlengths with two fixed anchor points eliminate path length drift over time.
- No need for costly and time-consuming recalibrations – Implen guarantees lifetime accuracy.

NanoPhotometer® N30-Touch & Extension Packages

We offer a unique and cost-effective solution to empower you to configure your devices according to your evolving needs and budget. Our extension packages provide the ultimate flexibility to modify your device upgrades on your own terms, allowing you to choose when and how you would like to upgrade. This way, you can enjoy the benefits of cutting-edge technology without breaking the bank.

	N30-Touch	PERFORMANCE	APPLICATIONS	CONNECTIVITY
Sample Volume	0.3 – 2 µl			
Bandwidth	< 1.5 nm			
Absorbance Accuracy	< 0.002 Abs			
Wavelength Accuracy	± 0.75 nm			
Optical Arrangement	1x 4096 CMOS Array			
Recalibration Free	Yes			
Measure Time For Full Scan Range	2.5 – 4.0 sec			
Warranty	12 months			
		EXPANDED RANGES		
Detection Range (dsDNA)	5 – 1,500 ng/µl	1 – 16,500 ng/µl		
Detection Range (BSA)	0.15 – 44 mg/ml	0.03 – 478 mg/ml		
Wavelength Scan Range	200 – 650 nm	200 – 900 nm		
			ACCESS ALL APPS	
Applications	Nucleic Acid, Protein UV		Protein Assays, Kinetics, OD600 Cell Density, Wavescan, Wavelength, Standard Curve, Absorbance Ratio, Concentration, Custom Additional Features: Air Bubble Recognition, Dye Labels	
				ULTIMATE CONNECTIVITY OPTIONS
Data Storage and Data Management	USB Data Storage			Unit Control via PC/Tablet/Smartphone via Wi-Fi®, USB, Ethernet or LAN, Data Storage onboard (64 Gb) or in Network, USB or Network Printing, Store Methods, Stored Results, LIMS integration via REST API & Push Service
Other	Limited Software Updates	FREE SOFTWARE UPDATES		