

Technická specifikace

NP80-Touch

Kombinace nanoobjemového spektrofotometru pro měření vzorků od 0,3 μ l do 2 μ l v rozsahu 200 – 900 nm a měření v kyvetě v temperovaném kyvetovém prostoru (37°C).

Popis:

Dotykový spektrofotometr určený k měření koncentrací RNA, DNA a proteinů na principu UV/VIS spektrometrie

Podrobné technické specifikace:

Aplikace	nanoobjem + kyveta
Minimální objem vzorku	0,3 μ l
Minimální limit detekce v nanoobjemu	1 ng/ μ l (dsDNA); 0,03 mg/ml (BSA)
Maximální limit detekce v nanoobjemu	16 500 ng/ μ l (dsDNA); 478 mg/ml (BSA)
Minimální limit detekce v kyvetě	0,1 ng/ μ l (dsDNA); 0,003 mg/ml (BSA)
Maximální limit detekce v kyvetě	130 ng/ μ l (dsDNA); 3,7 mg/ml (BSA)
Ovládání	Vestavěná dotyková obrazovka kompatibilní s laboratorními rukavicemi
Čas měření vzorku	max. 6 vteřin
Reprodukovatelnost	\pm 0,2 nm
Přesnost	\pm 0,75 nm
Rozsah vlnových délek	200 – 900 nm
Temperovaný kyvetový prostor	37° C
Vestavěný vortex	2 800 rpm
Výstupy	2x USB A, USB B, ethernet, HDMI, WLAN
Operační systém	založený na Linux
Bez nutnosti recalibrace	ANO



Nabídka: BCZ-NB-20-07152

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Datum: 27.04.2020

Předmět nabídky:

Specifikace:

Číslo	Popis	Množství	Cena za jedn.	Cena bez DPH	DPH
NP80-Touch	Implen NanoPhotometer® NP80 UV/Vis spectrophotometer; colored touch screen	1 x	269 000,00	269 000,00	21%

Celkem bez DPH: 269 000,00 CZK
DPH: 56 490,00 CZK
Celkem s DPH: 325 490,00 CZK



Designed for Research on an Epic Level

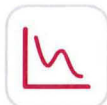
NanoPhotometer® NP80

All-in-One Spectroscopy



Microvolume and Cuvette Capability Built-in Vortex

Starting with only 0.3 µl of sample
Linear up to 2.6 Abs



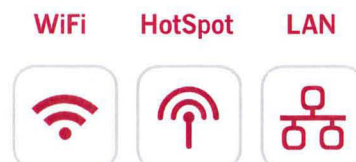
Full Scan

2.5 - 4 seconds per reading
200 to 900 nm
Resolution better than 1.8 nm



Regulatory Compliance, Certainty in Real Time and IQ/OQ Package

Optional CFR21 software provides password protected Role Based Access Control (RBAC), data integrity, electronic signatures and audit trail functionality
Impurity and air bubble recognition with Sample Control™ and Blank Control™
Compliant with international standards in regulated environments



Endless Connectivity

Built-in File Server for data access from Windows and Mac computers
Print to Airprint™ and HP Universal Driver compatible printers as well as DYMO Label printers
REST API for LIMS integration



Battery Powered

Up to 8 hours battery operation



Flexible Unit Control and Ultimate Data Security

Computer (Windows & Mac)
Built-in touchscreen
Smartphone / Tablet (Android OS & iOS)
Proprietary NPOS immune to known threats

World's smallest footprint in its class: only 20 x 20 x 12 cm
Ideal for nucleic acids, protein and samples in most organic solvents
Allows kinetic studies in a drop
No reconditioning, no recalibration and no regular maintenance ever
Stand-alone operation with built-in 7 inch glove compatible touch screen
Universal data output: Excel and PDF | Multi Language User Interface | Barcode ready
32 GB of onboard memory

Technical Specifications

NanoVolume Performance

Detection Range dsDNA	N60, NP80: 1 - 16,500 ng/μl N50: 5 - 7,500 ng/μl N120: 2 - 8,000 ng/μl
Detection Range BSA	N60, NP80: 0.03 - 478 mg/ml N50: 0.15 - 217 mg/ml N120: 0.06 - 230 mg/ml
Sample Volume	N50, N60, NP80: 0.3 - 2 μl N120: 2 - 3.5 μl
Photometric Range (10 mm equivalent)	N60, NP80: 0.02 - 330 A N50: 0.1 - 150 A N120: 0.04 - 160 A
Path Length	N50, N60, NP80: 0.67 and 0.07 mm N120: 1 and 0.125 mm
Dilution Factor	N50, N60, NP80: 15 and 140 N120: 10 and 80
Vortex	N60, NP80: 2,800 rpm Tube size up to 2.0 ml

Cuvette Performance – NP80 & C40

Detection Range dsDNA	0.1 - 130 ng/μl
Detection Range BSA	0.003 - 3.7 mg/ml
Photometric Range	0 - 2.6 A
Center Height (Z-Height)	8.5 mm
Cell Types	Outside dimension 12.5 x 12.5 mm
Heating	37 °C ± 0.5 °C

Processing Power & Compatibility

Operating System	Linux based NPOS
Onboard Processor	Intel Celeron dual core 2.4 GHz
Internal Data Storage	C40, N50, N60, NP80: 32 GB N120: 128 GB
Software Compatibility	Windows 7, 8, 10 (32 & 64 bit) OS X, iOS Android OS

Optical Specifications

Wavelength Scan Range	C40, N60, NP80, N120: 200 - 900 nm N50: 200 - 650 nm
Measure Time For Full Scan Range	C40, N50, N60, NP80: 2.5 - 4.0 sec N120: 1.7 - 2.5 sec per sample
Wavelength Reproducibility	C40, N60, NP80, N120: ± 0.2 nm N50: ± 1 nm
Wavelength Accuracy	C40, N60, NP80, N120: ± 0.75 nm N50: 1.5 nm
Bandwidth	C40, N60, NP80: < 1.8 nm N50: 5 nm N120: < 2.5 nm
Absorbance Reproducibility	N60, NP80: < 0.002 A (0.67 mm path) @ 280 nm N50: < 0.004 A (0.67 mm path) @ 280 nm N120: < 0.004 A (1 mm path) @ 280 nm
Absorbance Accuracy	< 1.75% @ 0.7 A @ 280 nm of the reading
Stray Light	N60, NP80: < 0.5% @ 240 nm using NaI N50: < 2% @ 240 nm using NaI N120: < 1% @ 240 nm using NaI
Optical Arrangement	1 x 3648 CCD Array
Lamp	Xenon flash lamp
Lifetime	10 ⁹ flashes, up to 10 years

General Specifications

Main Body Size	200 x 200 x 120 mm
Weight	3.8 - 5.2 kg depending on configuration
Operating Voltage	90 - 250 V, 50/60 Hz, 90 W, 18/19 VDC
Display	1024 x 600 pixels; glove compatible touchscreen
Built-in Battery Pack	Optional rechargeable lithium ion battery: C40, N60, NP80: 95 Wh, 6.6 Ah, 8 h N120: 47.5 Wh, 3.3 Ah, 3 h Min. charging cycles: 800
Certification	CE, IEC 61010-1:2012 and EN 61326-1:2013
Battery Certification	IEC 62133 and UN38.3 transport test
In & Output Ports	2x USB A, USB B, HDMI, Ethernet, WiFi
Security	Slot for Kensington lock

Reviews

“I love these machines. They make my job easier.”

Rating: 5.0 ★★★★★

Application Area: Teaching lab/upper divisional Bioc lab

"We have 8 and I am very pleased with how **easy** they are to use. This is a new product for our students and they are able to follow the directions we give them and get results. With any new piece of equipment, there is a learning curve, but it's a small one once they are comfortable using them. I like the fact that they are easy to demo, easy to install updates, and easy to troubleshoot. Compared to our old specs, these **save the students time**, they get results quickly, each group has their own NanoPhotometer at their station... My sales rep is fantastic"

Barbara Pinch
Organization: University of Minnesota

“Great results and very accurate!”

Rating: 5.0 ★★★★★

Application Area: Protein assays and concentrations

"I love love love this machine. It's **portable**, idiot proof, and **accurate**. For its DNA analysis, it is much more accurate than the old familiar... I love the fact that it is so modifiable and easy to use. We use it for a variety of functions in the lab, including **Bradford assays**. I really love that there is a **built-in graph** for these and that you can email it to yourself or save on a USB stick. This machine is the thing we have all been needing but never knew we missed. Also the customer care is outstanding and I look forward to our rep every time she comes."

Andrea Kuipers
Organization: California Institute of Technology