

More Than Just a Cuvette Spectrophotometer



NanoPhotometer[®] C40-Touch



Accurate

- Spectral Bandwidth better than 1.8 nm
- Resolution < 1 nm
- Absorbance Reproducibility < 0.002 A @ 260 nm

Powerful

- Full Scan Range from 200nm to 900 nm in only 3.5 seconds
- 1 GHz Quad Core Processor, 8 GB onboard memory
- Cuvette holder with Temperature Control 37°C ± 0.5°C

Easy to Use

- Control via 7" glove compatible color LCD touchscreen or PC/Mac, tablet or smartphone
- Innovative software with one click method access for all kinds of life science and standard spectroscopy applications
- Small Footprint 20 x 20 cm

Flexible

- Wi-Fi, USB A/B, HDMI and LAN interfaces
- Integrated battery pack for 8 hours stand-alone operation (optional)
- Upgradeable to full scanning micro volume spectrophotometer



Technical Specifications

Cuvette Performance

Detection Range dsDNA	0.1 ng / μ l to 130 ng / μ l
Detection Range BSA	0.003 mg / ml to 3.7 mg / ml
Photometric Range	0.002 - 2.6
Center Height (Z-Height)	8.5 mm
Cell Types	outside dimension 12.5 x 12.5 mm
Heating	37°C \pm 0.5°C

Optical Specifications

Wavelength Scan Range	200 – 900 nm
Measure Time For Full Scan Range	3.5 seconds
Wavelength Reproducibility	\pm 0.2 nm
Wavelength Accuracy	\pm 0.75 nm
Bandwidth	better than 1.8 nm
Stray Light	< 0.5 % at 240 nm using NaI and < 1% at 280 nm using Acetone
Absorbance Reproducibility	< 0.002 A (0.67 mm path) @ 280 nm
Absorbance Accuracy	< 1.75 % @ 0.7 A (0.67 mm path) @ 280 nm of the reading
Zero Stability	\pm 0.003 A/hour after 20 min warm up @ 280 nm
Noise	0.002 A rms at 0 A @ 280 nm 0.002 A (pk to pk) at 0 A @ 280 nm
Optical Arrangement	1 x 3648 CCD Array
Lamp	Xenon flash lamp
Lifetime	10 ⁹ flashes, up to 10 years

Processing Power and Compatibility

Operating System	Linux based OS
Onboard Processor	Quad Core 1 GHz
Internal Storage	8 GB
Control Options	Onboard with built-in touch screen, computer, smart phone and tablet
Software Compatibility	Windows 7 (32 and 64 bit), Windows 8 (32 and 64 bit), Mac OS X, iOS and Android
Min. Requirement Smart Phone/Tablet	4 inch screen; Apple: iPad 2, iPhone5 and iOS 6 Android version 4.4, Quadcore 1.2 GHz with 1 GB RAM

General Specifications

Size	200 mm x 200 mm x 120 mm
Weight	3.8 - 5.2 kg depending on configuration
Operating Voltage	90-250 V, 50/60 Hz, 60 W (90 W with battery pack), 18/19 VDC
Display	1024 x 600 pixels; Touch-Screen glove compatible
Certifications	CE, IEC 61010-1:2012 and EN 61326-1:2013
Integrated Battery Pack	optional rechargeable lithium ion battery; 95Wh, 6,6Ah; Operation time: up to 8 h; min. charging cycles: 800
Battery Certification	IEC 62133 and UN38.3 transport test
In- and Output Ports	2x USB A, USB B, HDMI, Ethernet, WLAN
Additional Data Input	Mouse and keyboard options
Security	Slot for Kensington lock



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