analytikjena
An Endress+Hauser Company

ScanDrop²
Microvolume UV/Vis Spectrophotometer

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Version: 09.20
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Technical Data
ScanDrop²

General

- Efficient and robust UV/Vis Spectrophotometer
- High flexibility through exchangeable adapters for various cuvettes including consumable-free microvolume measurements and 8-fold 10 mm sample changer
- Single sample or simple serial measurements
- Device opens in a rotation for optimal access and cleaning of the sample chamber
- PC or stand-alone operation through 10" tablet
- High-precision optics combined with a powerful xenon flash lamp

Optical System

Spectrometer type	▪ Polychromator system with symmetric Czerny-Turner
Detector	▪ Linear CCD detector optimized for UV/Vis range
Sample position	▪ 2D scanning range allowing adjustment to variable center heights (8.5 to 15 mm)
Light source	▪ Xenon flash lamp

Technical Specifications

All data can be checked within the scope of the validation of the instrument as specified for the 10 mm standard cuvette. Further technical details of the applications and accessories are given in the "Individual Accessories Specification".

Measuring modes	Absorption, Transmission, Energy
Wavelength range	190 – 1,000 nm (0.5 nm steps)
Wavelength accuracy (360.9 nm)	± 1 nm
Wavelength reproducibility	± 0.05 nm
Spectral resolution capability Toluene/Hexane at 20 – 30 °C	≥ 1.5 (A @ 269 nm / A @ 266 nm)
Stray light (340 nm, $NaNO_2$)	≤ 1%
Scanning speed	1.6 s per spectrum
Photometric reproducibility in absorbance (546 nm, Hellma F4)	± 0.005
Long-term stability in absorbance (500 nm)	± 0.01 1/h

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Application UV/Vis

	Standard cuvette	Butterfly Cuvette	CHIPCUVETTE 1.0 mm	CHIPCUVETTE 0.1 mm	CHIPCUVETTE 1.0 and 0.1 mm
Classification	Standard	Consumable free microvolume	Microvolume	Microvolume	Microvolume
Path length	Up to 10 mm	0.5 mm	1.0 mm	0.1 mm	1.0 and 0.1 mm
Number of samples	Up to 8	Up to 9	Up to 16	Up to 16	Up to 32
Volume	Up to 3.5 mL	2.0 – 4.0 µL	Min. 2.0 µL	Min. 0.3 µL	Min. 4.0 µL
Virtual dilution	-	1:20	1:10	1:100	1:10 and 1:100
Concentration range of DNA	2 – 125 ng/µL	15 – 1,500 ng/µL	10 – 750 ng/µL	100 – 7,500 ng/µL	10 – 7,500 ng/µL

Dimensions

Weight	Approx. 10 kg
Dimensions (W x H x L)	290 mm x 384 mm (incl. tablet PC) x 370 mm
Recommended footprint	290 mm x 370 mm

Additional Technical Data

Instrument operation conditions	15 °C to 35 °C, rel. humidity max. 90% (non-condensing) at 30 °C, max. 2,000 m NN
Instrument electrical requirements	80 V – 264 V/AC, 50 – 60 Hz
Fuses	2 x T3.15 A / 250 V
Power consumption	Max. 30 W
Noise emission	Max. 69 dB
Warranty	2-years warranty on device system
Technical standards	▪ Tested and designed to be compliant with the legal requirements for laboratory instrumentation and developed and produced in compliance with ISO 9001 ▪ ScanDrop² instruments are certified to comply with the requirements of EMC standards and bear the CE Mark

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Control and Data Evaluation

Control and analysis software	FlashSoftPro² (PC) or FlashSoftPro touch (tablet)
Control	PC or stand-alone (optional)
Interface	▪ PC connection: USB ▪ Tablet: 2x USB for data transfer, barcode reader
Computer requirements	▪ Operating system: Windows 7 (32 bit) or higher ▪ Min. Pentium 4, 1 GB memory, min. 500 MB free hard disk capacity, USB 2.0, VGA graphic card (1280 x 1024)
Display	Optional: 10“ tablet, color touch display, WIN 10 IoT
Export function	Excel, *.csv, *.ods
Quick start function	Yes
Memory capacity	Not limited on PC
Features	▪ Preinstalled methods for easy access and operation ▪ Module for the incorporation of user-specific methods ▪ Standards-based ▪ Measurement values are automatically evaluated ▪ Extensive spectral analysis

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