Technical data

SPECORD® PLUS series

SPECORD® 250 PLUS	SPECORD® 210 PLUS	SPECORD® 200 PLUS
Optical principle		
Double beam spectrophotometer with variable spectral resolution, double monochromator and CDD	Double beam spectrophotometer with variable spectral resolution and CDD	Double beam spectrophotometer with fixed spectral resolution
Optical system		
▪ Monochromator with imaging grating and aspheric quartz coated optics ▪ Internal Holmium oxide filter ▪ Special cell position for turbid samples		
Light source		
▪ Combination of Halogen and Deuterium lamp ▪ Lamp change selectable between 300 and 450 nm		
Scan application		
▪ Mode for slow scanning ▪ Scan speed and integration time selectable		
Mode		
Energy, Absorption, Transmission, Reflectance		
Sample compartment dimensions (W x H x D)		
364 x 185 x 260 mm		
Instrument dimensions (W x H x D)		
590 x 260 x 690 mm		
Instrument weight (kg)		
27		
Software		
WinASPECT® PLUS		
Instrument operation		
+ 15 °C to 35° C, Rel. Humidity max –90 % at 30° C		
Instrument electrical requirements		
230 V ±10 % or 115 V ±10 %		
Validation		
▪ The validation software is an option with the WinASPECT® PLUS software package ▪ In compliance with Ph.Eur., USP, ASTM, TGA (Australia) ▪ All manufacturing performance tests and other specification tests are provided		

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Technical standards		
▪ Tested and designed to be compliant with the legal requirements for laboratory instrumentation and developed and produced in compliance with ISO 9001 ▪ SPECORD® PLUS series instruments are certified to comply with the requirements of the EMC standards and bear the CE Mark		
Wavelength range		
190-1100 nm	190-1100 nm	190-1100 nm
Photometric display		
-8 A to 8 A		
Photometric range		
-4 A to 4 A (up to 900 nm)	-3 A to 3 A	-3 A to 3 A
Spectral bandwidth		
variable 0.5/ 1/ 2/ 4 nm		fix 1.4 nm
UV-Resolution (toluene-hexane)		
2.3*	2.3*	1.6
Wavelength accuracy (Deuterium line at 656 nm)		
± 0.1 nm		
Wavelength reproducibility (with holmium oxid filter*)		
± 0.02		
Photometric accuracy		
▪ VIS at 546 nm with Neutral glass filter Hellma F4** ± 0.003 ▪ UV with Potassium dichromate according Ph.Eur. ± 0.01 A		
Stray light		
198 nm (KCl Merck 1.08164.0001):		
0.03 % T	0.3 % T	0.3 % T
220 nm (NaI):		
0.005 % T	0.03 % T	0.03 % T
240 nm (NaI):		
0.005 % T	0.03 % T	0.03 % T
340 nm ($NaNO_2$):		
0.005 % T	0.01 % T	0.02 % T
Baseline stability at 500 nm		
0.0001 (RMS)		

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Longterm stability at 500 nm		
± 0.0005		
Scanning speed		
12000 nm/min		

All data can be checked within the validation of the instruments.

* With slit width 1 nm, 20 degree.

** Summary of the tolerances from the filters and spectrometers.

Subject to changes in design and scope of delivery as well as further technical development!

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