

ONDA UV-42 SCAN double beam spectrophotometer

Code: 11000102



TECHNICAL DATA SHEET

Performance

Functions	Photometry, Quantitative, Multi WL, Spectrum scan, Time scanning, Kinetics, DNA/Protein, Custom methods, File management, System, Performance verification
WL accuracy	$\pm 0,3 \text{ nm}$
WL repeatability	$\leq 0,2 \text{ nm}$
WL resolution	$0,1 \text{ nm}$
Photometric range (%T)	0 - 400 %T
Photometric range (Abs)	-4,0 - +4,0 Abs
Concentration range	0 - 9999,9 Conc
Photometric accuracy	$\pm 0,002 \text{ Abs (0,0 - 0,5 Abs)}$ $\pm 0,004 \text{ Abs (0,5 - 1,0 Abs)}$ $\pm 0,3 \%T (0,0 - 100,0 \%T)$
Photometric repeatability	$\leq 0,001 \text{ Abs (0,0 - 0,5 Abs)}$ $\leq 0,002 \text{ Abs (0,5 - 1,0 Abs)}$ $\leq 0,15 \%T (0 - 100 \%T)$
Photometric resolution	$0,001$
Stray light	$\leq 0,03 \%T @ 220 \text{ e } 360 \text{ nm}$
Stability	$\pm 0,002 \text{ Abs/hr (500 nm after 2 hours warm-up)}$
Noise	$\leq 0,0002 \text{ Abs (at 0,0 Abs) @ 500 nm}$ $\leq 0,0004 \text{ Abs (at 1,0 Abs) @ 500 nm}$ $\leq 0,0008 \text{ Abs (at 2,0 Abs) @ 500 nm}$
Baseline drift	$\pm 0,0005 \text{ Abs}$
Rotation speed	6000 nm/min
Scan speed	$20 - 3200 \text{ nm/min}$

Features

Optical system	Double beam
Measuring range (UV/Visible)	190 - 1100 nm
Bandwidth	1

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Light sources	Tungsten-halogen/Deuterium
Detector	Silicon photodiodes
Display	Colour LCD touch screen display 10.1", 1280 x 1280
Connection	USB-A / USB-B / RS-232 / Ethernet
Memory	64 GB (internal) expandable with USB stick and SD card
Language	IT - EN - CHN - ESP - DEU - FRA - POR - RUS
Standard cell support	Fixed 1 position, 10 mm path lenght
Performance verification	Yes

Power

Power supply	100 - 240 V
Frequency	50/60 Hz
Power	140 W

Dimensions and weight

Dimensions (WxDxH)	456 x 360 x 185 mm
Weight	17,0 Kg