

Varian Cary® 100, 300

UV-Vis spectrophotometers

GUARANTEED SPECIFICATIONS

Introduction

Cary spectrophotometers are manufactured according to a quality management system certified to ISO 9001. The guaranteed specifications are listed below and are based on the ± 4 sigma statistical confidence level of the final acceptance tests performed at the factory. Typical specifications are not reported in this document.

Design overview

Double beam, dual chopper, ratio recording, Czerny-Turner 0.278 m monochromator UV-Vis spectrophotometer, centrally controlled by a PC. Cary 300 has double dispersion, Cary 100 has single dispersion. High light throughput optical system with all reflective optical design, high speed accurate scanning. Optional centrally controlled accessory system. High performance R928 photomultiplier tube, tungsten halogen visible source with quartz window, deuterium and ultra violet source. Centrally controlled by PC with Windows® interface.

	Cary 100	Cary 300
Monochromator	Czerny-Turner 0.278 m	Czerny-Turner 0.278 m plus pre-monochromator
Grating	30 x 35 mm, 1200 lines/mm, blaze angle 8.6° at 240 nm	
Beam splitting system	Chopper (30+ Hz)	Chopper (30+ Hz)
Detectors	R928 PMT	R928 PMT
UV-Vis limiting resolution (nm)	≤ 0.24	≤ 0.24
Stray light (%T)		
At 198 nm (12 g/L KCl, TOA to BPYEP method)	$\leq 1\%$	$\leq 1\%$
At 220 nm (10 g/L NaI ASTM method)	$\leq 0.00\%$	$\leq 0.0005\%$
At 370 nm (50 mg/L NaNO ₂)	$\leq 0.0005\%$	$\leq 0.0002\%$
Wavelength range (nm)	190-900	190-900
Wavelength accuracy (nm)	± 0.2	± 0.2
Wavelength reproducibility (nm)		
Peak separation of repetitive scanning of a UV-Vis line source	< 0.08	< 0.08
Standard deviation of 10 measurements	< 0.02	< 0.02

Varian Cary 5spectrophotometer Manual

John V. Crable



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