## Varian Cary 100, 300 UV-Vis spectrophotometers

#### 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 R328 photomultiplier tube, tungsten halogen visible source with quartz window, deuterium arc ultra violetsource. Centrally controlled by PC with Windows\* interface.

	Cary 100	Cary 300
Monochromator	Czerny-Surner 0.278 m	Czerny-Surner 0.278 m plus pre-monochromator
Grating	30 x 35 mm, 1200 lines/mm, blaze angle 6.6° at 240 nm	
Beam splitting system	Chopper (30+ Hz)	Chopper (30+ Hz)
Detectors	PSQ8 PMT	R028 PMT
UV-Vis limiting resolution (nm)	≤ 0.24	≤ 0.24
Stray light (%T)		
At 198 nm [12.9/L KCI, TGA & BP/EP method]	sc 1%	≤ 15%
At 220 nm (10 g/L Nal ASTM method)	≤ 0.00%	≤ 0.0005%
At 370 nm (50 mg/t, NaNO <sub>3</sub> )	s 0.005%	s 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	< 0.00



# **Varian Cary 5spectrophotometer Manual**

**Lingsheng Yao** 

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#### **Table of Contents Varian Cary 5spectrophotometer Manual**

- 1. Understanding the eBook Varian Cary 5spectrophotometer Manual
  - The Rise of Digital Reading Varian Cary 5spectrophotometer Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Varian Cary 5spectrophotometer Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Varian Cary 5spectrophotometer Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Varian Cary 5spectrophotometer Manual

- Personalized Recommendations
- Varian Cary 5spectrophotometer Manual User Reviews and Ratings
- Varian Cary 5spectrophotometer Manual and Bestseller Lists
- 5. Accessing Varian Cary 5spectrophotometer Manual Free and Paid eBooks
  - Varian Cary 5spectrophotometer Manual Public Domain eBooks
  - Varian Cary 5spectrophotometer Manual eBook Subscription Services
  - Varian Cary 5spectrophotometer Manual Budget-Friendly Options
- 6. Navigating Varian Cary 5spectrophotometer Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - Varian Cary 5spectrophotometer Manual Compatibility with Devices
  - Varian Cary 5spectrophotometer Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Varian Cary 5spectrophotometer Manual
  - Highlighting and Note-Taking Varian Cary 5spectrophotometer Manual
  - Interactive Elements Varian Cary 5spectrophotometer Manual
- 8. Staying Engaged with Varian Cary 5spectrophotometer Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Varian Cary 5spectrophotometer Manual
- 9. Balancing eBooks and Physical Books Varian Cary 5spectrophotometer Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Varian Cary 5spectrophotometer Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Varian Cary 5spectrophotometer Manual
  - Setting Reading Goals Varian Cary 5spectrophotometer Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Varian Cary 5spectrophotometer Manual

- Fact-Checking eBook Content of Varian Cary 5spectrophotometer Manual
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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