

# Agilent Technologies, Inc. - Cary 60 UV-Visible Spectrophotometer



## GENERAL DESCRIPTION:

The Agilent Cary 60 UV-Vis Spectrophotometer is efficient, accurate and flexible, and is designed to meet your immediate and future challenges. With remote sampling options, proven performance and low cost of ownership, you can be sure that the Agilent Cary 60 UVOVis will give you answers you can trust.



## TECHNICAL DESCRIPTION:

Lowest cost of ownership - with an exceptionally long lifetime of 3 billion flashes, the lamp typically lasts 10 years, minimizing lamp replacement and instrument revalidation costs.

No need for cuvettes - the optional fiber probe delivers more accurate results in a fraction of the time, and with no cuvette or sipper, sample measurements are less prone to error

Measures precious samples with ease - the highly focused beam image of the Agilent Cary 60 is perfect for measuring small volumes accurately and reproducibly.

Exceptionally fast data collection - with scan rate of up to 24,000 nm/min, you can scan the entire wavelength range (190-1100 nm) in under 3 seconds.

Performance enhancing accessories assures you can handle the widest variety of sample sizes and types with liquid sampling accessories including fiber optics probes and couplers, Peltier and water thermostated single and multicell holders, temperature probes, microvolume sampling cells and rapid mix accessory for stopped flow kinetics. For solid samples, choose from solid sample holder, fiber optic reflectance probe and coupler and fixed angle specular reflectance accessories (SRA).

Software designed for real samples - Agilent Cary WinUV software can be tailored to suit your analytical requirements from QA/QC to research.

## Tier Selection

Final tier assignment is based on overall product score.

- Top Tier
- ◐ Second Tier
- Third Tier
- ◑ Fourth Tier
- Bottom Tier

### RANKINGS

	Biological	Chemical	Radiological
<b>FIELD USE System</b>	<span style="color: green;">◐</span>	<span style="color: grey;">○</span>	N/A
<b>MOBILE Laboratory</b>	<span style="color: green;">◐</span>	<span style="color: green;">●</span>	N/A
<b>DIAGNOSTIC Laboratory</b>	<span style="color: green;">◐</span>	<span style="color: green;">●</span>	N/A
<b>ANALYTICAL Laboratory</b>	<span style="color: green;">◐</span>	<span style="color: green;">●</span>	N/A

## CONTACT INFORMATION

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## COST

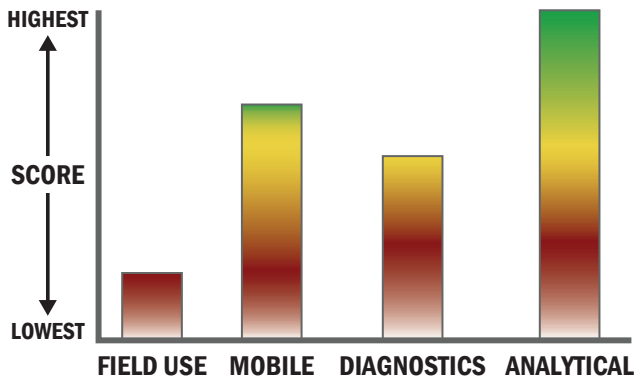
- \$10,000/system
- \$1.00-\$100,000/analysis

## Survey Source

Vendor Supplied Information

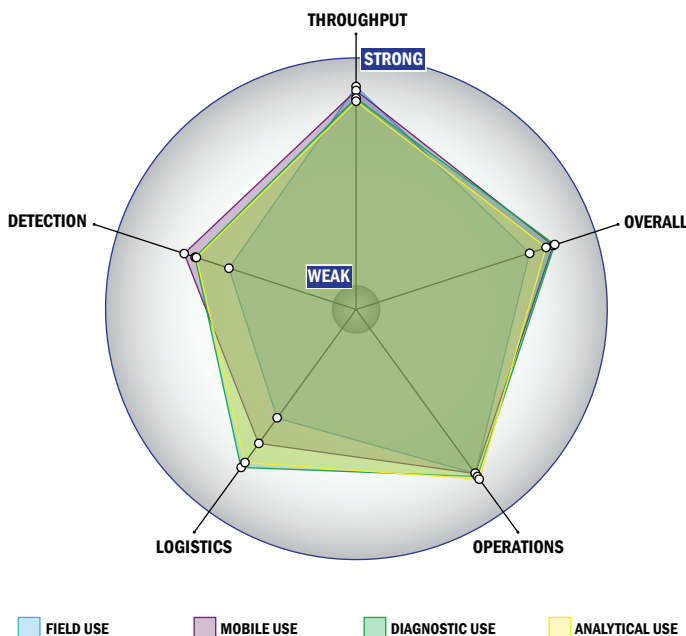
## Scoring Analysis

System scores are compared across the four scenarios and ranked from highest to lowest.



## Impact Chart

The Impact Chart is a spider graph representing specific categories and designed to give the reader a visual depiction of how a particular system is expected to operate across the four different scenarios. The score for each of the seven categories is presented as the percentage of the total possible score. Higher category scores extend the spokes of a graphic toward the outer edge of the chart. The area graphed for each of the four scenarios relates to how well the system performed in that scenario. Graphics for each of the four scenarios are super-imposed for ease of comparison.



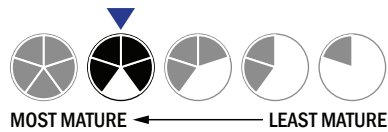
## Evaluation Criteria

### Throughput:

- Detection is instantaneous
- Continuous operation with no defined runs
- System is continuous and provides real time analysis with no defined tests/samples
- The system could be adapted to a fully automated system with some effort
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 1 component
- Less than 5 minutes is required for set-up
- 3-5 steps are required for detection

### Logistics:

- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a carry-on luggage suitcase
- Between 5 and 25 kg
- Wired connections are available
- System or device has 110V electrical requirement



### Operations:

- Can be used from 4 °C to 41 °C
- Components must be stored at room temperature (27 °C)
- Device or system has peak performance at normal relative humidity conditions
- Greater than 3 years shelf life
- Greater than 10 years expected life
- Results can be viewed in real-time
- The system could be adapted to a fully autonomous system with some effort
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

### Detection:

- Possible the system could receive 510K clearance, no current efforts at this time
- Possible the system could receive FDA approval, no current efforts at this time
- Less than 10 µL
- Superior specificity. False alarm rate approaching zero (~0%)
- > 1x10<sup>-3</sup> mg/m<sup>3</sup>
- 1 ppm-100 ppm
- System can currently identify aerosolized chemical agent
- System can currently identify liquid chemical age