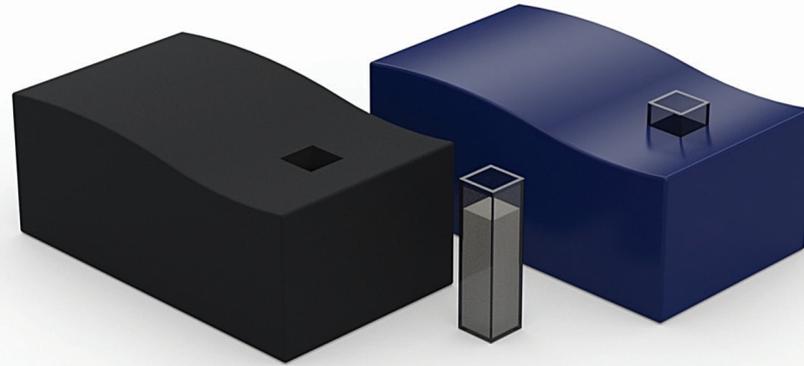


Cuvette-Based Spectrophotometer
Compact Optical System for Precision Liquid Analysis



Designed for high-precision optical measurements in laboratory and field settings, this cuvette-based UV-VIS spectrophotometer combines advanced spectral sensing with a compact form factor. It supports standard cuvettes and enables both transmittance and fluorescence measurements through integrated white and UV light sources.



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Key Features:

Dual Excitation Modes:

- White Light (800–400 nm, Transmissive Mode) for absorbance-based VIS/NIR analysis
- UV Light (365 nm, 90° Entry) for fluorescence excitation

Standard Cuvette Compatibility:

- Supports 10 mm pathlength cuvettes
- Reusable or disposable cuvettes for flexible sampling

Enclosed Optical Chamber:

- Isolated environment to minimize ambient light interference
- Internal PCB mounts for light source stability and sensor alignment

Real-Time Full Spectrum Output:

- Covers UV to NIR range with ~15 nm resolution
- Captures subtle variations in optical density and emission

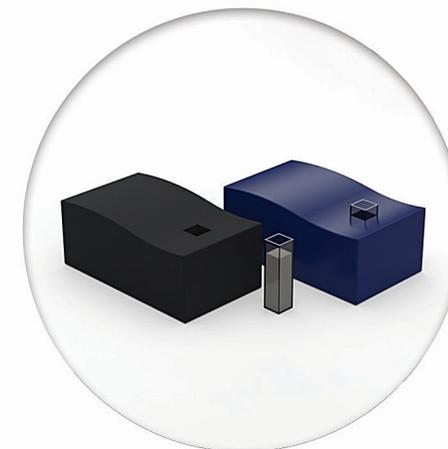
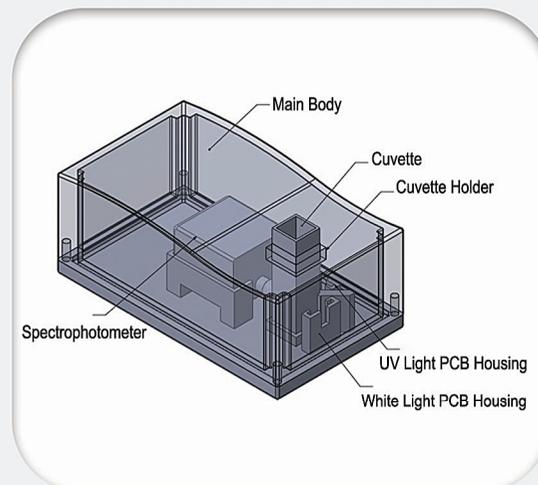
Advantages:

- No moving parts — robust and portable
- Simple cuvette-based loading for repeatable tests
- Minimal sample preparation
- Suitable for point-of-care or bench-top setups
- Software SDK included for integration and automation

Technical Highlights

Parameter Specification

- Spectral Range 800–340 nm (UV + Visible/NIR)
- UV Excitation 365 nm, 90° angle for fluorescence detection
- White Light Illumination 800–400 nm, transmissive through cuvette
- Spectral Resolution ~15 nm
- Cuvette Compatibility Standard 10 mm optical path
- Light Sources UV LED + White LED (integrated on PCBs)
- Optical Design Isolated optical chamber with sealed optics
- Data Interface USB or serial interface for spectrum output



Package Includes

- Spectrometer with enclosed cuvette slot
- UV and White Light integrated modules
- Starter pack of cuvettes
- Software tools for acquisition and analysis
- Optional carrying case and power accessories

Reliable, Accurate, and Compact

Optimize your workflow with a precise, plug-and-play spectrophotometry system.

Applications:

Chemical & Pharmaceutical Analysis:

Quantify concentration, identify compounds, and track reactions.

Water & Environmental Testing:

Detect pollutants, heavy metals, or UV-reactive organic matter.

Food & Beverage Quality Control:

Analyze color, clarity, and nutrient content in liquids.

Biological & Clinical Diagnostics:

Assess biomarkers, protein concentrations, or fluorescence-tagged reagents.

