

Quartz Cuvette

SIM-6301 Series

Spectrophotometer cuvettes are small, transparent containers used to hold samples for spectrophotometric analysis, which measures light absorption at different wavelengths. Cuvettes are typically made from glass, quartz, or plastic, chosen based on the wavelength range needed for analysis. Glass and plastic cuvettes are used for visible light and near-infrared measurements, while quartz cuvettes are used for ultraviolet light measurements. The cuvette's path length, usually 1 cm, is crucial in calculating light absorption.



The SIM-6301-Q is a dual-window cuvette crafted from premium far-UV quartz glass (JGS1). Featuring $\lambda/4$ surface flatness @632.8nm and strict dimensional tolerances of +0.0/-0.1mm, it delivers exceptional optical performance with matched pair transmission variance <0.5%.

Features

Typical Applications

- Material: JGS1 Synthetic Quartz (High-purity SiO_2)
 - Spectral Range: 170-2500nm (Deep UV to Near-IR)
 - Surface Accuracy: $\lambda/4$ @632.8nm (HeNe Laser Standard)
 - Dimensional Tolerance: +0.0/-0.1mm (Precision Ground)
 - Matched Pair Consistency: <0.5% Transmission Variance
 - Window Configuration: Dual Optical Polished Surfaces
- HPLC/UV-Vis Spectrophotometry
 - Laser Absorption Spectroscopy
 - Fluorescence Quantum Yield Measurement
 - Photochemical Reaction Monitoring
 - OEM Analytical Instrument Integration

Specifications

Model	SIM-6301-QT05	SIM-6301-QT10	SIM-6301-QF10
Optical Path	5mm	10mm	
Polished window	2		4
Capacity	3.5ml		
Material	Far ultraviolet quartz glass (JGS1)		
Wavelength	200nm-2500nm		
Demension	12.5*7.5*45mm	12.5*12.5*45mm	12.5*12.5*45mm
Optical Direction	2 windows for light pass		4 windows for light pass