Deuterium Tungsten Light Source

BIM-6203

The BIM-6203 is a high-stability composite light source integrating a deuterium (D_2) lamp and a tungsten (W) lamp. Utilizing innovative optical filtering technology, it effectively suppresses the characteristic emission peaks of the deuterium lamp, delivering a stable, continuous, and smooth spectral output across 230–2500 nm with excellent stability. This makes it particularly suitable for high-precision quantitative measurements of absorbance, concentration, and transmittance.
The BIM-6203 light source can be turned on/off independently for each lamp via front-panel buttons, and also can be turned on/off individually and remotely through the TTL control interface.

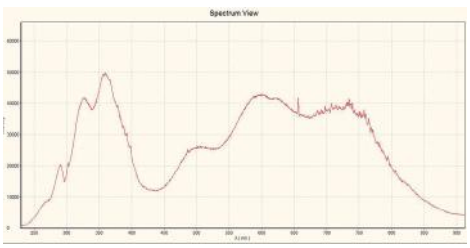
Key Features

- Full-spectrum intensity & spectral smoothing – Innovative optical filtering technology eliminates stray peaks for ultra-flat output
- Dual-channel independent control – Deuterium and tungsten lamps can be switched on/off separately
- Tunable tungsten lamp power – Variable intensity to meet different sensitivity requirements
- Integrated shutter with TTL control – Enables precise timing synchronization for automated measurements

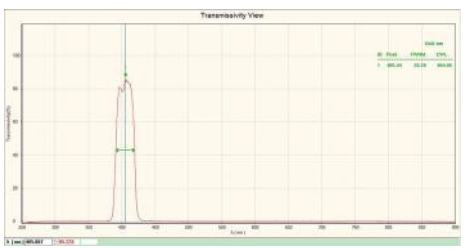
Applications

- Reference light source for high-precision measurements of absorbance, transmittance, and reflectance
- Ideal for research and industrial applications requiring stable broadband spectral output

Typical Spectrum



Output Spectrum
(Measured by 200-900nm Spectrometer)



Transmittance of 405nm filter

What's included

#	Part Description	Model	Qty.
1	Deuterium Tungsten Light Source	BIM-6203	1
2	Power cable	BC-105075	1

Specifications

Model	BIM-6203
Wavelength Range	230-2500 nm
Lamp Power	Deuterium 25W，Tungsten 20W
Lamp Lifetime	1000 hours
On-off Control	independently
Trigger Mode	TTL
Output Voltage	100-240 V / AC
Working Temperature	5°C -35°C
Warming-up	30 minutes
Size	175 x 160 x 265mm
Weight	4.5Kg

Dimensions (mm)