

# Deuterium Halogen Light Source

BIM-6203



## Specifications

Spectral Range: 230-2500nm  
Deuterium Lamp: 25W  
Tungsten Lamp Power: 20W  
Lamp Life: 1000h  
Current Stability:  $<5 \times 10^{-6}$ p-p  
Current Drift:  $<0.01\%$  / h  
TTL, Shutter  
Preheat Time: 30m

Replaceable bulbs. Each lamp can be on/off. Tungsten lamp with adjustable power.

The stable light source with UV-NIR spectral output is composed of a deuterium lamp and a tungsten lamp. A new filter technology makes the spectral curve smooth and continuous. It is commonly used in the measurement of absorbance, concentration, and transmittance.

# LIGHT SOURCE

# Compact Deuterium Halogen Light Source

BIM-6213



## Specifications

Optimal spectral range: 200 nm-1100 nm  
TTL, Shutter  
Fiber Connector: SMA905  
Power: 6W

Each lamp can be on/off  
Deuterium Lamp: 200nm-400nm, life>1000h  
Tungsten Lamp: 400nm-1100nm, life>2000h

The compact UV-VIS light source is suitable for integrating and handheld measurement with low power light source. It can provide continuous and stable output with a reasonable price.

# Bulb Replaceable Tungsten Light Source

BIM-6208



BIM-6208 provides an economical solution for applications requiring VIS-NIR continuous spectrum with stable output and low ultraviolet radiation. Users can select different tungsten lamps with power from 20 to 100W for various requirements of measurement and analysis.

## Specifications

Optimum range: 450nm-900nm  
Full range: 300nm-2400nm  
Stability:  $<3\%$  (450nm-900nm)

Output port: size is  $\Phi 14$ mm with detachable SMA905 fiber optic connector  
Preheat time: 30min

# Adjustable Light Source with Fan Cooler

BIM-6214



## Specifications

Full range: 400 nm-2500 nm  
Lamp power: 0-20W adjustable

Cooler: Fan  
Lamp life: 2000 h (typical)

BIM-6214 is an intensity adjustable tungsten lamp light source with a fan cooler. It provides a stable and adjustable VIS-NIR spectral output, which is suitable for the measurements of absorption, transmission, and reflectivity. It equips with a shutter that can be controlled by TTL, which is commonly used in OEM systems.

# BROLIGHT TECHNOLOGY

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## Uniform Light Source with Integrating Sphere

SIM-6211

Illuminance: adjustable, max value >20000lux  
 Color temperature: 2850-6500 k (customizable)  
 Spectral range: UV, VIS, IR (customizable)  
 Output port: Φ1-1000mm (customizable)  
 Material of inner coating: PTFE  
 Brightness, spectral range and optical power can be customized

### Specifications

Uniformity: >98.5%  
 Illumination: max value >20000 lux, adjustable  
 Spectral range: 250-2500nm  
 Stability: >99% (2 hours)  
 Integrating sphere diameter: 300mm (customizable)  
 Output port size: Φ80mm (customizable)  
 Lamp: 6 bromine tungsten lamps, each can be independently controlled  
 Color temperature: 2800K  
 Lamp life: 2000h  
 Lamp power: 12V/10W  
 Power supply: 0-80V @ 0-20A @ 400W



## Flash Xenon Light Source

SIM-6205

SIM-6205 is a new type of light source that integrates a xenon lamp, a trigger, and a high-voltage power supply. It is widely used in spectral applications, especially for OEM systems, since its no-preheating and low heat.



High power is beneficial to improve the signal-to-noise ratio  
 Wide spectral range of 185-2000nm, covering UV, VIS, NIR  
 Long life, more than 100 million flashes  
 Good stability, CV value of 1000 flashes ≤ 2%  
 Small size, low heat  
 No-preheat, work immediately  
 Plug and play DB-9 connector

Power	2W	5W
Pulse Energy	8.8mJ - 13.8mJ optional	22.4mJ - 35.0mJ optional
Arc Length	3.0 ± 0.3 mm	3.0 ± 0.3 mm
Spectral Range	185 - 2000 nm	185 - 2000 nm
Stability	2us	5.9us
NEP	Max 1.5% CV ; Max 4.2% PV -1000 pluse	
Life	> 100 million flashes	> 100 million flashes
Trigger Voltage	5V square wave pulse; high level pulse width ≥10 μs	
Window	DM308 glass, UV available	
Input Power	DC -Min 11.0 - Max 28.0 V	
Input Current	11 V: Max 1.4 A	
Demision	100 x 45 x 36mm	
Interface	SMA905, FC etc., optional	

## LED Module

BIM-6215



CWL	Max Current (mA)	Power (W)
255	100	0.6
275	30	0.2
310	40	0.3
365	700	3
380	700	3
400	700	3
415	700	3
430	700	3
Demision: Φ43×46mm		

BIM-6215 can work with an optional current source, which performances with an intensity adjustable stable output. It provide optional CWL of 255nm / 275nm / 310nm / 365nm / 380nm / 400nm / 415nm / 430nm with various optional accessories, including 4-channel cuvette holder, and a diffuse reflection fiber holder. It is common used for fluorescence measurement systems as an light source.

Good performance with stable output (it will not drift and float for a long time)  
 Long life: 100,000 hours  
 Cold light with small heat  
 small and portable  
 optional CWL of 255nm / 275nm / 310nm / 365nm / 380nm / 400nm / 415nm / 430nm

**BROLIGHT TECHNOLOGY**



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