Flashing Xenon Light Source

SIM-6205 Series

The SIM-6205 Pulsed Flashing Xenon Light Source is an innovative integrated light source combining a xenon bulb, trigger, and high-voltage power supply. It is widely used in spectral measurement applications and is increasingly incorporated into industrial online inspection systems due to its instant start-up (no preheating required) and low heat emission.

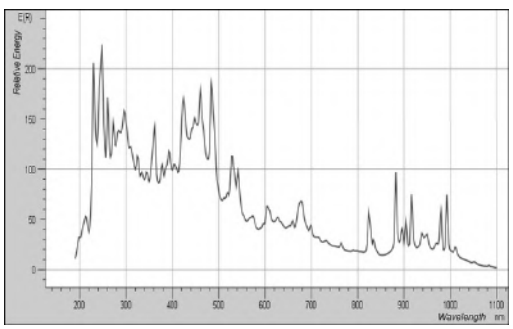
Features

- High radiant intensity and instantaneous flash power, enhancing instrument signal-to-noise ratio
- Broad spectral range covering UV, visible, and near-infrared (185–2000 nm)
- Ultra-long lifespan with over 100 million flashes
- Excellent stability (CV ⩽ 2% for 1000 flashes)
- Compact size and low heat generation, ensuring optical-mechanical stability
- Instant start-up without preheating, saving testing time
- DB-9 connector for plug-and-play operation

Applications

- UV, visible, and infrared spectrophotometric analysis
- Fluorescence analysis
- Medical applications: ELISA analyzers, urine sediment analyzers, compact POCT biochemical analyzers
- Industrial automation strobe light sources
- Air pollution gas analysis (NO, SO_2)
- Laboratory and online water pollution analysis

Typical Spectrum



Measure the spectral range of 200-1100nm with the spectrophotometer

Specifications

Model	SIM-6205-0230	SIM-6205-0530
Power	2 W	5 W
Single Flash Energy	8.8mJ - 13.8mJ optional	22.4mJ - 35.0mJ optional
Arc Length	3.0 ± 0.3mm	
Light-transmitting Panel Material	UV-transparent glass	
Wavelength Range of Light Radiation	185 - 2000nm	
Light Output Stability	Max 2% CV	
Lifetime (number of flashes)	More than 100 million times	
Input Voltage	DC -Min 11.0 - Max 28.0 V	
Input Current	11 V: Max 1.4 A	
Trigger Voltage	5V square wave pulse; high level pulse width ≥ 10 μs	
Operation Temperature	0 - +40℃	
Storage Temperature	-40 - +90℃	
Use and Storage Humidity	Max 95% RH	
Cooling Method	Natural cooling	
Weight	250g	
Size	100 x 45 x 36mm	

Dimensions (mm)