

## VGS-200 VCSEL辐射角分布测量系统

### VGS-200 VCSEL Radiation Angle Distribution Measurement System

- VGS-200 VCSEL辐射角分布测量系统集辐射分布、光安全、光谱特性、电特性等测量功能于一体，一次扫描测量，同时完成多个参数的测量，测试精度高，同步性好，适用于VCSEL产品的质检、研发实验室等测试场合要求。主要测试参数如下：

VGS-200 VCSEL radiation angle distribution measurement system integrates radiation distribution, optical safety, spectral characteristics, electrical characteristics and other measurement functions. It can scan and measure at one time and simultaneously measure multiple parameters. With high test accuracy and good synchronization, it is suitable for testing occasions such as VCSEL product quality inspection and R&D laboratory. The main test parameters are as follows:

- 电压、电流、电功率  
Voltage, current and electric power
- 光谱功率分布曲线、峰值波长、半峰宽、中心波长等  
Spectral power distribution curve, peak wavelength, half peak width, central wavelength, etc
- 辐射功率、辐射效率  
Radiation power, radiation efficiency
- 空间辐射强度分布、FOV视角、窗口效率  
Space radiation intensity distribution, FOV angle of view, window efficiency
- 人眼安全  
Eye safety
- PD 电流  
PD current



**技术参数 Specifications**

- 光谱范围：800-1000nm;  
Spectral range: 800-1000nm;
- 半峰带宽：0.2nm;  
Half peak bandwidth: 0.2 nm;
- 波长准确度：0.05nm;  
Wavelength accuracy: 0.05nm;
- 温控夹具控温方式：TEC自动控温，精度0.1℃;  
Temperature control mode of temperature control fixture: TEC automatic temperature control, accuracy 0.1℃;
- 配us级和ns级脉冲电源（根据客户要求）  
Equipped with us and ns pulse power supply (according to customer requirements)
- 1) VCSEL测量专用us脉冲电源  
1) Special us pulse power supply for VCSEL measurement
- 可实现程控脉冲输出，脉冲宽度、占空比均可调；  
Programmable pulse output, adjustable pulse width and duty cycle;
- 脉冲宽度：100  $\mu$ s~30ms;  
Pulse width: 100  $\mu$  s~30ms;
- 占空比：1%~10%;  
Duty cycle: 1%~10%;
- 脉冲恒流测量范围：0~5A;  
Pulse constant current measurement range: 0~5A;
- 脉冲电压测量范围：0~5V;  
Pulse voltage measurement range: 0~5V;
- 最大输出能力：5A/5V;  
Maximum output capacity: 5A/5V;
- 电压电流测量准确度：0.2%读数+0.1%量程。  
Voltage and current measurement accuracy: 0.2% reading+0.1% measuring range.
- 2) VCSEL测量专用ns脉冲电源（选配）  
2) Ns pulse power supply for VCSEL measurement (optional)  
最小脉宽: 1ns;  
Minimum pulse width: 1ns  
峰值电流：15A;  
Peak current: 15A;  
重复频率：100MHz。  
Repetition frequency: 100MHz