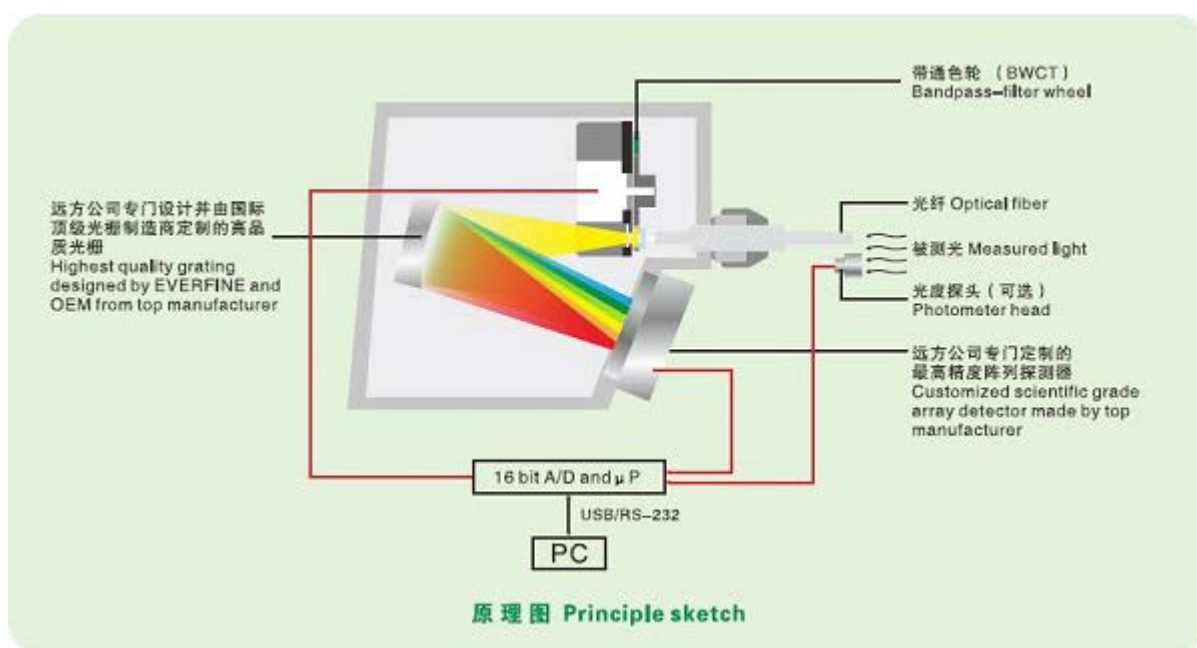


## HAAS-2000 OLED积分球光色电测试系统

### HAAS-2000 OLED integrating sphere light color electricity test system

- 实现OLED器件量子效率的高精度测量。  
High precision measurement of quantum efficiency of OLED devices is realized.
- 基本原理：  
Rationale:



#### 技术参数 Specifications

- 低杂散光  
通过改良设计后高度匹配度的高精度光栅和科学级制冷型阵列探测器，并利用BWCT技术和修正的NIST杂散光校正技术，HAAS-2000的杂散可以比原有高精度快速光谱仪的十分之一还要低。  
Low stray light  
The stray of HAAS-2000 can be lower than one tenth of the original high-precision fast spectrometer by improving the design of high-precision grating with high matching degree and scientific refrigeration array detector, and by using BWCT technology and modified NIST stray light correction technology.
- 宽线性动态测量范围  
与普通阵列探测器相比，HAAS-2000中的科学级阵列探测器具有更宽的线性动态范围，且光学匹配改造设计后，仪器的动态范围进一步拓宽。此外，SBCT技术也大幅提高了HAAS-2000的线性动态范围。  
Wide linear dynamic measurement range  
Compared with the ordinary array detector, the scientific array detector in HAAS-2000 has a wider linear dynamic range, and the dynamic range of the instrument is further widened after the optical matching design. In addition, SBCT technology also greatly improves the linear dynamic range of HAAS-2000.

## 技术参数 Specifications

## ● 快速

HAAS-2000不仅可以测量光源的稳态特性，而且可以测量它们瞬态光学特性，完全符合相关标准的规定。在仪器的灵敏度范围内，无论被测光的瞬态脉冲多快（如小于微秒级），仪器均可以通过同步触发功能实现快速的全光谱测量。HAAS-2000采用科学级阵列探测器代替机械扫描系统，可以在很短的测量时间内（毫秒级）完整完成精确测量整个光谱范围。

fast

HAAS-2000 can not only measure the steady state characteristics of light sources, but also measure their transient optical characteristics, which fully conforms to the provisions of relevant standards. Within the sensitivity range of the instrument, no matter how fast the transient pulse of the measured light is (such as less than microseconds), the instrument can achieve rapid full spectrum measurement through the synchronous trigger function. HAAS-2000 adopts scientific array detector instead of mechanical scanning system, which can complete accurate measurement of the whole spectrum range in a very short measurement time (millisecond level).

## ● 高精度

HAAS-2000专为高精度应用场合设计，通过对世界顶级商用科学级制冷型阵列探测器和精密光栅进行改良设计，使其更加匹配，再配以精密的光学系统和电子线路，同时采用多项专利技术，整个系统可以实现高分辨率、高灵敏度、低噪声、低杂散光和宽动态范围，从而实现精确测量的目的。

high-precision

HAAS-2000 is specially designed for high-precision applications. By improving the design of the world's top commercial scientific grade refrigeration array detector and precision grating, it can be more matched. It is equipped with precision optical system and electronic circuit. At the same time, it uses a number of patented technologies. The whole system can achieve high resolution, high sensitivity, low noise, low stray light and wide dynamic range, so as to achieve accurate measurement.

## ● 高重复性和稳定性

仪器没有机械运动的扫描机构，唯一会产生随环境变化的温度因素也被恒温制冷技术控制到了 $\pm 0.05^{\circ}\text{C}$ 的水平，测量的重复性和稳定性较高。

High repeatability and stability

- The instrument has no scanning mechanism with mechanical movement, and the only temperature factor that will change with the environment is also controlled to  $\pm 0.05^{\circ}\text{C}$  by the constant temperature refrigeration technology. The measurement repeatability and stability are high.

## ● 典型测试报告:

Typical test report:

