

SRC-600 光谱彩色亮度计 SRC-600 spectral color luminance meter

- 可用于各类手机、PAD、电脑显示器、电视机、投影机、LED显示屏、面板灯、景观照明、应急照明等发光体的测试，可测量的参数包括：辐亮度、亮度、相对光谱功率分布、色品坐标、相关色温、显色指数等，涵盖了被测对象的光、色参数，真正做到一机多用。

It can be used for the test of various mobile phones, PADs, computer monitors, televisions, projectors, LED displays, panel lights, landscape lighting, emergency lighting and other illuminants. The parameters that can be measured include: radiance, brightness, relative spectral power distribution, chromaticity coordinates, related color temperature, color rendering index, etc. It covers the light and color parameters of the tested object, so that one machine can really be used for multiple purposes.



特点与优势 Characteristics and advantage

- 1) 集光谱、亮度、颜色测量功能于一体

仪器可测量的参数包括：辐亮度、亮度、相对光谱功率分布、色品坐标、相关色温、显色指数等，涵盖了被测对象的光、色参数，真正做到一机多用。

1) It integrates spectrum, brightness and color measurement functions

The measurable parameters of the instrument include radiance, brightness, relative spectral power distribution, chromaticity coordinates, related color temperature, color rendering index, etc., covering the light and color parameters of the measured object, so that one machine can really be used for multiple purposes.

- 2) 高灵敏度

SRC-600可达到0.0005cd/m²的测量，满足低亮度的测量需求。

2) High sensitivity

SRC-600 can measure 0.0005cd/m² to meet the measurement requirements of low brightness.

- 3) 高测量精度

采用分光法（光谱法）实现亮度色度参数，不存在光谱失匹配误差，可用于校准使用滤色片方法的测量设备。

3) High measurement accuracy

The spectral method (spectral method) is used to realize the luminance and chromaticity parameters, without spectral mismatch error, which can be used to calibrate the measuring equipment using the color filter method.

- 4) 高分辨率

采用优质的恒温制冷型阵列探测器及高性能的光栅，且阵列探测器和光栅的良好匹配，使系统具有高光谱分辨率（可0.6nm/pixel）。

4) High resolution

The system has a high spectral resolution (0.6nm/pixel) due to the good matching between the array detector and the grating.

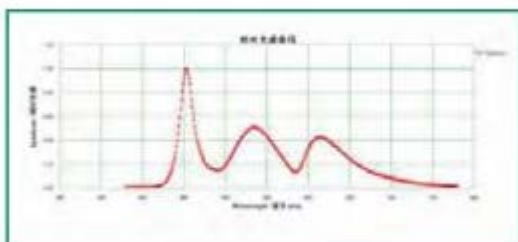
- 5) 数据查看及传输

TFT液晶和触摸屏直观显示测试数据及光谱，可与手机APP连接，实现数据的自动传输，也可连电脑实现数据保存和打印。

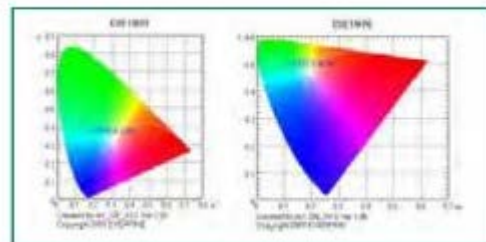
5) Data viewing and transmission

TFT liquid crystal and touch screen display test data and spectrum intuitively, which can be connected with mobile phone APP to realize automatic data transmission, and can also be connected with computer to realize data saving and printing.

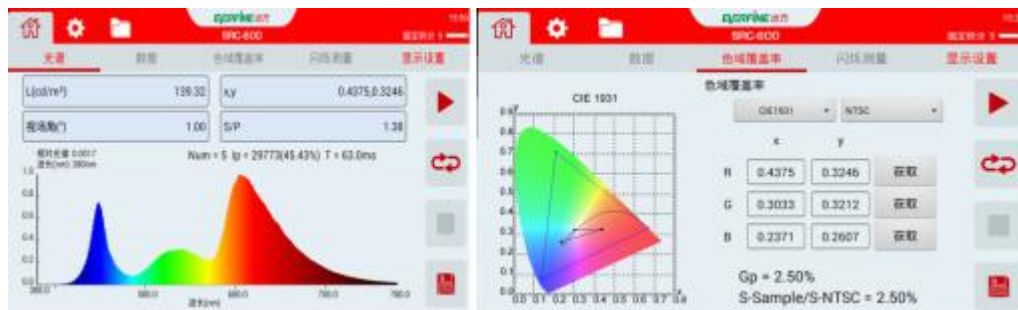
相对光谱曲线图



CIE 色品图



特点与优势 Characteristics and advantage



技术参数 Specifications

- 测量视场角：1°、0.1°、0.2° 三个视场角；
Measuring field of view angle: 1°, 0.1° and 0.2° ;
- 亮度测量范围：0.0005cd/m²~600,000cd/m²（视场角不同测量范围不同）；
Luminance measurement range: 0.0005cd/m² ~ 600000cd/m² (different measurement ranges for different field angles);
- 亮度测量误差：2%读数+1个字(按国家计量检定规程JJG211-2005方法检验)；
Brightness measurement error: 2% reading+1 word (inspected according to the national metrological verification regulation JJG211-2005);
- 色坐标准确度（标准A光源）：x,y:0.0015,0.001(1°视场角0.05cd/m²以上)；
Color seating standard accuracy (standard A light source): x, y: 0.0015,0.001 (1° field angle above 0.05cd/m²);
- 色坐标重复性：0.0004(1°视场角0.2cd/m²以上)；
Color coordinate repeatability: 0.0004 (1° field angle of view above 0.2cd/m²);
- 色温显示范围：1000K~100000K；
Color temperature display range: 1000K ~ 100000K;
- 测量区域：Φ4mm（1°视场角300mm测量距离）。
Measuring area: Φ 4mm (1° field angle 300mm measuring distance).