

SRC系列 光谱彩色亮度计 SRC Series Spectral Color Luminance Meter

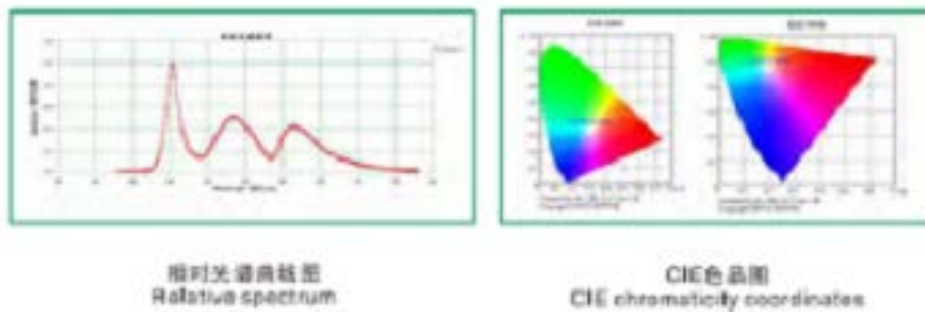
- SRC系列光谱彩色亮度计是一款可进行光谱、颜色、亮度测量的分光辐射亮度计，测量参数包括：辐亮度、亮度、相对光谱功率分布、色品坐标、相关色温、显色指数等，涵盖了被测对象的光、色参数，真正做到一机多用。可满足高测量要求的实验室应用，运用无线数据传输，对于野外现场测量应用也十分方便。广泛应用于仪表盘、汽车发光字符、中控显示屏、阅读灯、牌照灯、交通信号等亮度颜色高精度测量，也用于对单点亮度颜色参数的高精度校准。

SRC series spectral color luminance meter is a spectroradiometer that can measure spectrum, color and brightness. The measurement parameters 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 measured object, and truly achieves multiple uses of one machine. It can meet the laboratory application with high measurement requirements. It is also very convenient for field field measurement application by using wireless data transmission. It is widely used in high-precision measurement of brightness and color of instrument panel, automobile luminous characters, central control display, reading lights, license plate lights, traffic signals, etc., and also for high-precision calibration of single point brightness and color parameters.



特点与优势 Characteristics and advantage

- 1) 集光谱分布、亮度、颜色功能于一体
1) It integrates spectral distribution, brightness and color functions
- 测量参数包括辐亮度、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
The measurement parameters 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
2) High sensitivity
SRC-600可达到0.003cd/m²的测量，满足低亮度的测量需求。
SRC-600 can measure 0.003cd/m², meeting the measurement requirements of low brightness.
- 3) 高测量精度
3) High measurement accuracy
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。
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
4) High resolution
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）。
The system has a high spectral resolution (0.6nm/pixel) due to the good matching between the array detector and the grating.
- 5) 多视场角切换，适用范围极广
5) Multi view angle switching, extremely wide application range
可根据不同的应用对象，选择不同的光学测量角度1°，0.2°，0.1°多视场角切换，既适用于细小如指示灯、仪表盘、发光字符的测量，也可用于户外大尺寸发光体的测量。
According to different application objects, different optical measurement angles of 1°, 0.2° and 0.1° can be selected for multi field angle switching, which is not only applicable to the measurement of small indicators, instrument panels and luminous characters, but also for the measurement of large outdoor luminous objects.
- 6) 无线WIFI远程操作测试
6) Wireless WIFI remote operation test
在50m范围内通过无线功能连接笔记本电脑远程控制仪器进行测量和数据传输。
Connect the laptop remote control instrument with wireless function within 50m for measurement and data transmission.

技术参数 Specifications

测量视场角	1°	0.2°	0.1°
测量区域 (300mm 处)	Φ4mm	Φ0.8mm	Φ0.4mm
测量亮度范围 (标准 A 光源)	0.0005 ~ 6,000cd/m ²	0.0125 ~ 150,000cd/m ²	0.05 ~ 600,000cd/m ²
亮度测量精度	2%读数+1 个字(按国家计量检定规程 JJG211-2005 方法检验)		
色度准确度 (x, y) (标准 A 光源)	x,y:0.001,0.0015 (0.05cd/m ² 以上) x,y: 0.002 (0.001~0.5cd/m ²)	x,y:0.001,0.0015(1.25cd/m ² 以上) x,y: 0.002(0.025~1.25cd/m ²)	x,y: 0.001,0.0015 (5cd/m ² 以上) x,y: 0.002(0.1~5cd/m ²)
亮度重复性	0.15%(0.05cd/m ² 以上) 0.25%(0.003~0.05cd/m ²) 0.7% (0.001~0.003cd/m ²)	0.15%(1.25cd/m ² 以上) 0.25% (0.075~1.25cd/m ²) 0.7% (0.025~0.075cd/m ²)	0.15%(5cd/m ² 以上) 0.25% (0.3~5cd/m ²) 0.7% (0.1~0.3cd/m ²)
色度重复性	x,y: 0.0004 (0.2cd/m ² 以上) x,y: 0.0006 (0.1~0.2cd/m ²) x,y:0.0015 (0.003~0.1cd/m ²) x,y:0.0035 (0.001~0.003cd/m ²)	x,y: 0.0004 (5cd/m ² 以上) x,y: 0.0006 (2.5~5cd/m ²) x,y: 0.0015 (0.075~2.5cd/m ²) x,y: 0.0035 (0.025~0.075cd/m ²)	x,y:0.0004 (20cd/m ² 以上) x,y: 0.0006 (10~20cd/m ²) x,y: 0.0015 (0.3~10cd/m ²) x,y: 0.0035 (0.1~0.3cd/m ²)
色温显示范围	1000K ~ 100000K		