

TLS-50 可调光谱亮度源/照度源

TLS-50 adjustable spectral brightness source/illuminance source

- TLS-50可调光谱亮度/照度源模拟各类典型的室内和室外光源，并在大动态范围内，实现亮度或照度自动调节。适用于环境光传感器、红外接近传感器的校正测量，以及成像亮度计的动态范围、平场、亮度、色度等特性测量校准。

TLS-50 adjustable spectral brightness/illuminance source simulates various typical indoor and outdoor light sources, and realizes automatic brightness or illuminance adjustment in a large dynamic range. It is applicable to the calibration and measurement of ambient light sensor and infrared proximity sensor, as well as the measurement and calibration of the dynamic range, flat field, brightness, chromaticity and other characteristics of the imaging luminance meter.



技术参数 Specifications

- 光谱范围：380-1000nm；
Spectral range: 380-1000nm;
- 内置CIE A、D和LED照明体等在内的数十种标准光谱，且支持客户自定义目标光谱的匹配输出；
Built in dozens of standard spectra, including CIE A, D and LED illuminants, and support the matching output of customer defined target spectra;
- 光源输出口径为50mm，出光面均匀性高，达到97%以上
The output aperture of the light source is 50mm, and the uniformity of the light emitting surface is high, reaching more than 97%
- 光源输出稳定，完全满足高精度校正和校准测量应用。
The output of the light source is stable, fully meeting the application of high-precision calibration and calibration measurement.
- 最大照度可到10000lx，满足环境光传感器的测量需求。
The maximum illumination can reach 10000lx, meeting the measurement requirements of ambient light sensor.
- 光源响应快，寿命长；
Fast response of light source and long service life;
- 内置高精度监测探测器，量值测量更准确
Built in high-precision monitoring detector, more accurate measurement

技术参数 Specifications● **关键指标:**

Key indicators:

- 1) 测量光谱范围: 800-1000nm;
1) Measuring spectrum range: 800-1000nm;
- 2) 半峰带宽: 0.2nm;
2) Half peak bandwidth: 0.2 nm;
- 3) 波长准确度: 0.05nm;
3) Wavelength accuracy: 0.05nm;
- 4) VCSEL测量专用脉冲电源, 可实现程控脉冲输出, 脉冲宽度、占空比均可调;
4) VCSEL special pulse power supply for measurement can realize programmed pulse output, and the pulse width and duty cycle can be adjusted;
- 5) 脉冲宽度: 100 μ s~30ms;
5) Pulse width: 100 μ s~30ms;
- 6) 占空比: 1%~10%;
6) Duty cycle: 1%~10%;
- 7) 脉冲恒流测量范围: 0~5A;
7) Pulse constant current measurement range: 0~5A;
- 8) 脉冲电压测量范围: 0~5V;
8) Pulse voltage measurement range: 0~5V;
- 9) 最大输出能力: 5A/5V;
9) Maximum output capacity: 5A/5V;
- 10) 电压电流测量准确度: 0.2%读数+0.1%量程.
10) Voltage and current measurement accuracy: 0.2% reading+0.1% measuring range
- 11) FOV角度范围: $(\pm 75^\circ) * (\pm 75^\circ)$;
11) FOV angle range: $(\pm 75^\circ) * (\pm 75^\circ)$;
- 12) 测量距离: 250mm.
12) Measuring distance: 250mm