

Chroma2 Pocket Portable Spectrometer for LED Lamp Test Equipment with 10 cm Integrating Sphere



LX-Chroma2A light source colorimeter is a newly developed pocket colorimeter, adopting advanced spectrometer and microprocessor technology. It makes traditional laboratory instrument available for the production on-line quality acceptance, thus greatly improve the efficiency of fluorescent lamp, CFL, LED manufacturing.

Characteristics and specifications;

Adopting micro-spectrometer technology which has higher accurate than traditional photo-detectors.

Measure chromaticity coordinates temperature, chromaticity coordinate, rendering index, color difference, etc.

Data hold, save and open function. Several groups of data can be saved.

Accuracy of chromaticity coordinates: $\pm 0.003(x, y)$

128*64 LED of graphic interface displaying spectrum wave, chromaticity diagram.

USB interface for PC communication

Quality Li-Battery for recycled-utilization

Can test parameters

1. Total colour difference dE^* , The difference in lightness dL^* , The difference on the red-green coordinate da^* , The difference on the blue-yellow coordinate db^* ;
2. CCT(Correlated Color Temperature) T_c and Chromaticity Coordinates x, y, u, v ;
3. Correlated color temperature difference dT_c and Chromaticity coordinate difference dx, dy, du, dv ;
4. CRI(Color Rendering Index), Color Tolerance;
5. Peak wavelength, FWHM, Dominant Wavelength, Purity;
6. Center wavelength, Centroid wavelength etc.

Technical indicators

1. Range of wavelength: 380nm-780nm(visible sight);
2. Accuracy of wavelength: $\pm 0.5\text{nm}$; Repeatability: $\pm 0.2\text{nm}$;
3. Accuracy of chromaticity coordinate: ± 0.0025 (Resolution: 0.0001);
4. Correlated color temperature measurement range: 1500-25000K; Accuracy: $\pm 3\%$, Resolution: 1K;
5. Total accuracy of color difference: Less than ± 0.2 (Measurement conditions: Under the standard of A light source);
6. Power supply: 3.7V Li-Battery;
7. Product Size: 90mm * 180mm * 48mm

- 8. Weight: approximate 1kg
- 9. Integrating Sphere Size: 10cm

Standard Light Source Type: A-2856K, B-4874K,C-6774K,
D65-6504K, E-5448K;

Color Tolerance Type: F8000, F6500, F5000, F4000, F3500, F3000,
F2700, Auto.



