



## SPIC-300 SPECTRAL IRRADIANCE COLORIMETER

SPIC-300 Spectral Irradiance Colorimeter integrates the spectrum, illuminance, colorimetric and photometric etc. measurement functions in one instrument. With the international patented technologies, it doesn't have  $V(\lambda)$  mismatch error, and can realize wide dynamic range with excellent linearity, which inherits the advantages of both illuminance meter and spectroradiometer.

### Measurable items:

- 1) Relative Spectral Power Distribution  $P(\lambda)$ ;
- 2) Spectral Irradiance  $E(\lambda)$ ;
- 3) Chromaticity Coordinates :  $(x, y), (u, v), (u', v')$ ;
- 4) Correlated color temperature CCT;
- 5) Color Rendering Index:  $R_a, R_i$  ( $i=1 \sim 15$ )
- 6) Standard Deviation of Color Matching: SDCM(MacAdam Ellipse, Rectangular and CIE  $u'v'$  circle);
- 7) Peak wavelength, Full width at half maximum (FWHM);
- 8) Spectral Purity, Dominate Wavelength;
- 9) Red Ratio;
- 10) Illuminance E, Irradiance  $E_e$ ;

11) Television Lighting Consistency Index (TLCI);

12) Color Fidelity Index (Rf) and Color saturation index (Rg);

13) TM-30-15 evaluation;

14) More function can be customized;

Model	AW Model	BW Model
Wavelength range	380 nm ~ 760 nm	380 nm ~ 780 nm
SBCT	No	Yes
Receptor window	Φ8 mm	(Φ8 mm + Φ3.5 mm)
Wavelength accuracy	± 0.5 nm	
Illuminance accuracy	± (4% reading+1 digit)	± (3% reading+1 digit)
Stray light	≤ 0.3%	
Integration time range	0.1 ms ~ 5000 ms	
Illuminance range	1 lx ~ 100k lx	0.01 lx ~ 200k lx
CCT	1,000K~100,000K	
Accuracy of chromaticity coordinate	±0.001 (Relative to the standard light source whose stability is better than ±0.0001 and NIM traceable calibrated value)	
CRI	Ra; Ri (i=1~14) (Specially R15)	
Power supply	Rechargeable Lithium battery (3.7V), continuously works for 4h	
Communication interface	USB, Bluetooth, WIFI	
Data Storing	6 G	
Weight	320 g (with battery)	