

Apacer optical inspection solution

Spectral Irradiance Meter Ai101

V01-0519

✉ Ea_sales@apacer.com

Specification

Liquid-Crystal Display (LCD)	4.3" touch panel	
Device Measuring Functions	Illuminance, Spectral Irradiance, TM30-15 (RF/RG), Correlated Color Temperature (CCT, Duv), Dominant Wavelength (λ_D), XYZ Tristimulus Values, Peak Wavelength (λ_P), Peak Wavelength Value (λ_{PV}), Purity, Color Quality Scale (CQS), Color Rendering Index (CRI R1-R15, Ra), Chromaticity Coordinates CIE1931(x,y)/CIE1976 (u',v'), Television Lighting Consistency Index (TLCI), Spectrogram (330~850 nm)	
Light Receiver	Cosine Corrector (active range: Φ 8mm)	
Measurable Illuminance Range	1~600000 (lx)	
Repeatability (2 σ) (Standard Illuminant A)	Illuminance	99% (10~600000 (lx))
	Chromaticity	x:0.0015 y:0.0015
Accuracy (Standard Illuminant A)	Illuminance	97% (10~600000 (lx))
	Chromaticity	0.002 (illuminant at least 10 (lx) or above)
Wavelength Data Increment	1nm	
Spectral Resolution (FWHM)	5.5nm	
Measuring Time	1ms~60s	
Dimensions (L/W/H)mm	150×97×32mm (includes the cosine corrector)	
Over-Exposure Warning	Presented in Red Digits of Illuminance	
Storage	SD Card for device/PC for connecting with ASI software	
Gauge Mounting Aperture	M6, $\frac{1}{4}$ 20UNC	
Weight	350g (strengthen plastic)	
Battery Capacity	3350mAh	
Operation/Storage Environment	0°C~40°C<80% RH/-10°C~60°C<70%RH	
Software Functions (ASI)	Illuminance, Spectral Irradiance, TM30-15 (RF/RG), Correlated Color Temperature (CCT, Duv), Dominant Wavelength (λ_D), XYZ Tristimulus Values, Peak Wavelength (λ_P), Peak Wavelength Value (λ_{PV}), Purity, Color Quality Scale (CQS), Color Rendering Index (CRI R1-R15, Ra), Chromaticity Coordinates CIE1931(x,y)/CIE1976 (u',v'), Television Lighting Consistency Index (TLCI), Spectrogram (330~850 nm), Standard Deviation of Color Matching (SDCM), Socotopic/Photopic (S/P) Ratio, Δx , Δy , $\Delta u'$, $\Delta v'$, LED Bin Categorization	
Conformity with Standards	TM30-15, ANSI C78.377	
SDK Syntax	Support VC, VB SDK	