



"IES/ASSIST/ENERGY STAR IEEE 1789".

≥ Features

- Portable spectro flicker meter
- 3.5" color touch screen with intuitive user interface
- SD card storage
- WIFI connection with remote iOS and Android app
- Spectrum diagram and 35 other measuring features
- Flicker measurement IEEE 1789



Application



Academics



Medical



Light and Agriculture



Road and Traffic



Health and Safety



Visual Merchandising



LED Screens



Marine Biology



LED Professionals



LED Manufacturing



Lighting Designers



LED Trading

Specification

Spectrum			
Sensor	CMOS Linear Image Sensor		
Wavelength Range	380 to 780 nm		
Wavelength Data Increment	1 nm		
Spectral Bandwidth	Approximately 12 nm (Half Bandwidth)		
Wavelength Reproducibility	± 1 nm *1		
Measurement Range		1 to 100,000 lx	
Illuminance Accuracy		± 2.5%	
III		0.2% (100~100,000 lx)	
Illuminance Repeatability (2σ)		0.5% (5~100 lx)	
		x y: ± 0.002 (100 to 100,000 lx)	
Color Accuracy	Illuminant A @ 2,856 K	x y: ± 0.0025 (5 to 100 lx)	
	at 20,000 lx ^{*2}	x y: 0.0002 (500 to 100,000 lx)	
Color Repeatability (20)		x y: 0.0004(30 to 500 lx)	
		x y: 0.001 (5 to 30 lx)	
CCT Accuracy		± 2%	
CRI Accuracy @ Ra		± 1.5%	
Stray Light	-25 dB max. *3		
Integration Time Range	100 us to 1,000 ms		
Digital Resolution	16 bits	16 bits	
	Flicker		
Measurement Range	1 to 100,000 lx	1 to 100,000 lx	
Sampling Rate	100k sample/sec	100k sample/sec	
Frequency Range	5 to 50 kHz		

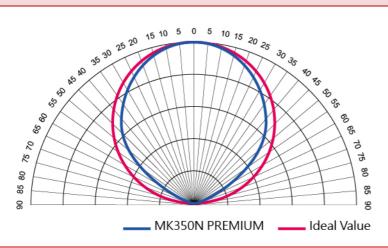


Frequency Resolution	2, 4, 8, 16, 32 Hz	
Flicker Accuracy	± 5%	
Thicker Accuracy	Feature	
Capture Function		
Capture Function	One time / Continuous Standalone Mode / WiFi Mode*4	
Operation Mode		
Integration Made	USB Mode (MSC Mode ^{*5} +PC connection)	
Integration Mode Measuring Modes	Auto/Manual	
	1. Basic Mode	
	2. Spectrum Mode	
	3. CIE 1931/1976 Chromaticity Mode	
	4. TM-30-15 Mode	
	5. Browser Mode	
	6. Flicker Mode	
	7. Frequency Mode	
	8. Compare Mode	
	9. Option Mode	
	1. Illuminance (LUX)/Foot Candle (fc)	
	2. Correlated Color Temperature (CCT)	
	3. CIE Chromaticity Coordinates	
	(1) CIE 1931 x,y Coordinates	
	(2) CIE 1976 u',v' Coordinates	
	(3) CIE 1931 XYZ Value	
	4. ^x , ^y , ^u' , ^v'	
Measuring Capabilities	5. Delta uv (Duv)	
	6. Dominant Wavelength (λd)	
	7. Excitation Purity	
	8. Color Rendering Index (CRI, Ra)/R1 to R15	
	9. Color Quality Scale (CQS)	
	10. Television Lighting Consistency Index (TLCI)	
	11. TM-30-15 (Rf, Rg, Color Vector Graphic)	
	12. Flicker Frequency	
	13. Percent Flicker	
	14. Flicker Index IEEE 1789	
	15. Stroboscopic Effect Visibility Measure (SVM)	
	16. Spectral Power Distribution (SPD) mW/m ²	
	17. Peak Wavelength (λp)	
	18. Peak Wavelength Value (λpV)	
	10. I Cak vvavelength value (hpv)	



	19. Intergration Time (I-Time)	
	20. Scotopic and Photopic Ratio (S/P)	
System Configurations		
Display	3.5" 320X240 Resistive Touch LCD	
Max. Files	≒ 68,000 Files @ 8GB SD Card (Excel + JPG)	
Battery Operation Time	≦ 5 hours / Fully Charged	
Power	Adapter; 2500 mAh (3.7V Rechargeable Li-ion Battery)	
Data Output Interface	SD Card (SD2.0,SDHC / up to 32G) /	
	Mini USB Port (USB 2.0) /	
	WiFi SD Card compatible with iOS and Android	
Data Format	Compatible Excel / JPG	
Dimensions	147.5 x 78 x 24 mm (H x W x D)	
Weight (with Battery)	255 g ± 10 g	
Operating Temperature / Humidity	0 to 35 °C, relative humidity 70% or less without condensation	
Storage Temperature / Humidity	-10 to 40 °C, relative humidity 70% or less without condensation	
Display languages	English / Traditional Chinese / Simplified Chinese / Japanese / Spanish /	
	German / French / Italian / Russian	

Cosine Correction



- *1 : Input source must be a stable light source.
- *2 : Temperature $23\pm2^{\circ}$ C and relative humidity 50% or less.
- *3 : Input the 550nm monochromatic light and measure the stray light ratio at 550nm \pm 40nm.
- *4: It can be connected to mobile phones and tablets.
- *5: MSC- Mass Storage Class.

The company reserves the right to change product specifications at any time without prior notice.