



MK350N PREMIUM

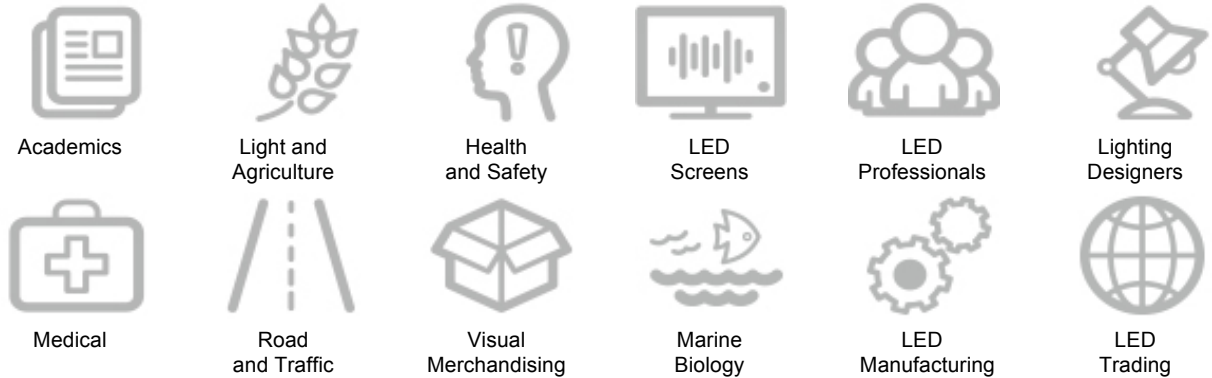
Handheld Spectrometer

"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



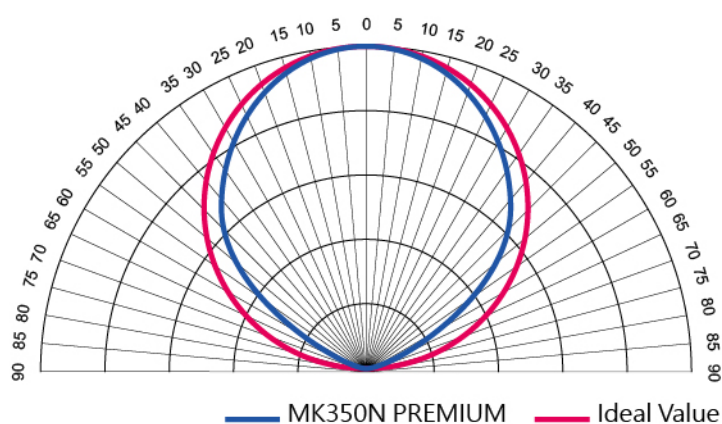
Specification

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	Illuminant A @ 2,856 K at 20,000 lx ^{*2}	1 to 100,000 lx
Illuminance Accuracy		± 2.5%
Illuminance Repeatability (2σ)		0.2% (100 ~ 100,000 lx)
		0.5% (5 ~ 100 lx)
Color Accuracy		x y: ± 0.002 (100 to 100,000 lx)
		x y: ± 0.0025 (5 to 100 lx)
Color Repeatability (2σ)		x y: 0.0002 (500 to 100,000 lx)
		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	
Flicker		
Measurement Range	1 to 100,000 lx	
Sampling Rate	100k sample/sec	
Frequency Range	5 to 50 kHz	

Frequency Resolution	2, 4, 8, 16, 32 Hz
Flicker Accuracy	± 5%
Feature	
Capture Function	One time / Continuous
Operation Mode	Standalone Mode / WiFi Mode ^{*4} USB Mode (MSC Mode ^{*5} +PC connection)
Integration Mode	Auto/Manual
Measuring Modes	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
Measuring Capabilities	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. Δx , Δy , $\Delta u'$, $\Delta v'$
	5. Delta uv (Duv)
	6. Dominant Wavelength (λ_d)
	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 (λ_p)
	18. Peak Wavelength Value (λ_{pV})

	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±2°C and relative humidity 50% or less.
- *3 : Input the 550nm monochromatic light and measure the stray light ratio at 550nm ± 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.