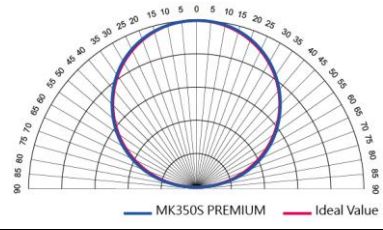


MK350S Premium Spectrometer

Spectrum	
Sensor	CMOS Linear Image Sensor
Illuminance meter class	Conforms to JIS C 1609-1:2006 for General Class AA. Conforms to DIN 5032 Part 7 Class B.
Wavelength Range	380 to 780 nm
Wavelength Data Increment	1 nm
Spectral Bandwidth	Approximately 12 nm (Half Bandwidth)
Wavelength Reproducibility	$\pm 1 \text{ nm}^{*1}$
Measurement Range	1 to 150,000 lx
Illuminance Accuracy	$\pm 2.5\%$
Color Accuracy	± 0.0025 in CIE 1931 x,y
Color Repeatability	Illuminant A @ 2,856 K at 20,000 lx ± 0.0005 in CIE 1931 x,y
CCT Accuracy	$\pm 2\%$
CRI Accuracy @ Ra	$\pm 1.5\%$
Stray Light	-25 dB max. ^{*3}
Integration Time Range	60us to 5,000 ms
Digital Resolution	16 bits
Flicker	
Measurement Range	1 to 150,000 lx
Sampling Rate	100k sample/sec
Frequency Range	5 to 50k Hz
Frequency Resolution	2, 4, 8, 16, 32 Hz
Flicker Accuracy	$\pm 5\%$
Feature	
Capture Function	One time/Continuous
Operation Mode	Standalone Mode/WiFi Mode ^{*4} /USB Mode (MSC Mode ^{*5} + PC connection)
Integration Mode	Auto/Manual
Dark Calibration	Yes (Auto)
Measuring Modes	<ol style="list-style-type: none"> 1. Basic Mode 2. Spectrum Mode 3. CRI Mode 4. CIE 1931/1976 Chromaticity Mode 5. LUX Image Distribution Mode 6. Log Mode 7. BIN Chart Mode 8. Quality Control Checker Mode 9. Measurement Comparison Mode 10. Transmit Mode 11. TM-30-15 Mode 12. Flicker Mode 13. Frequency Mode 14. Browser Mode 15. Option Mode 16. Blue Light Hazard Mode
Measuring Capabilities	<ol style="list-style-type: none"> 1. Illuminance (LUX)/Foot Candle (fc) 2. Correlated Color Temperature (CCT) 3. CIE Chromaticity Coordinates <ol style="list-style-type: none"> (1) CIE 1931 x,y Coordinates (2) CIE 1976 u',v' Coordinates (3) CIE 1931 XYZ Value 4. $\Delta x, \Delta y, \Delta u', \Delta v'$ 5. Delta uv (Duv) 6. Dominant Wavelength (λ_d) 7. Excitation Purity 8. BIN ANSI C78.377 or Customized 9. Standard Deviation Color Matching (SDCM) 10. Color Rendering Index (CRI, Ra)/R1 to R15 11. Color Quality Scale (CQS) 12. Gamut Area Index (GAI) 13. Television Lighting Consistency Index (TLCI) 14. TM-30-15 (Rf, Rg, Color Vector Graphic) 15. Flicker Frequency 16. Percent Flicker 17. Flicker Index 18. Stroboscopic Effect Visibility Measure (SVM) 19. Photosynthetically Active Radiation (PAR) <ol style="list-style-type: none"> (1) PPF (400 to 700nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ (2) PFD-UV (380 to 400nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ (3) PFD-B (400 to 500nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ (4) PFD-G (500 to 600nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ (5) PFD-R (600 to 700nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ (6) PFD-NIR (700 to 780nm) $\mu\text{mol}/\text{m}^2/\text{sec}$ 20. Spectral Power Distribution (SPD) mW/m^2 21. Peak Wavelength (λ_p) 22. Peak Wavelength Value (λ_pV) 23. Intergration Time (I-Time) 24. Scotopic and Photopic Ratio (S/P) 25. Transmittance 26. Flicker Judge - IEEE 27. Flicker Judge - Energy Star 28. EB 29. Kbv 30. RG
System Configurations	
Display	4.3" 800X480 Resistive Touch LCD
Max. Files	\approx 21,000 Files @ 8GB SD Card (Excel + JPG)
Battery Operation Time	\leq 4 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	163 x 81 x 26.6 mm (H x W x D)
Weight (with Battery)	260 g \pm 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
Camera Resolution	2M pixels

Cosine Correction



*1 : Input source must be a stable light source.

*2 : Temperature $23 \pm 2^\circ\text{C}$ and relative humidity 50% or less.

*3 : Input the 550nm monochromatic light and measure the stray light ratio at $550\text{nm} \pm 40\text{nm}$.

*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.