



## Compact MK350D

Handheld Spectrometer

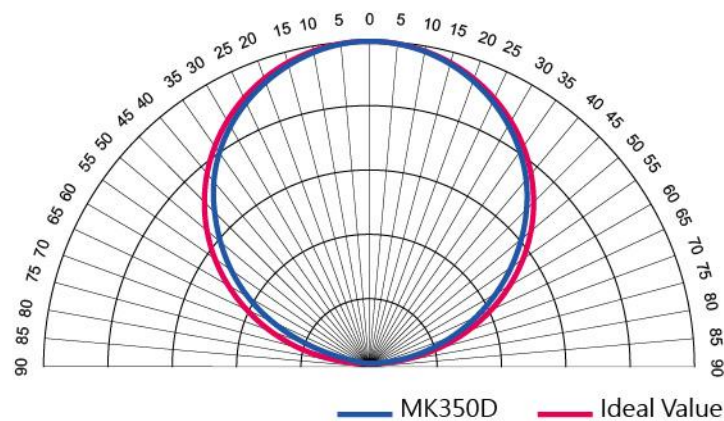
### Specification

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 <sup>*1</sup>	
Measurement Range	70 to 70,000 lx	
Illuminance Accuracy	Illuminant A @ 2,856 K at 20,000 lx <sup>*2</sup>	± 5%
Color Accuracy		± 0.0025 in CIE 1931 x,y
Color Repeatability		0.0005 in CIE 1931 x,y
CCT Accuracy		± 2%
CRI Accuracy @ Ra		± 1.5%
Stray Light	-25 dB max. <sup>*3</sup>	
Integration Time Range	6 to 1,000 ms	
Digital Resolution	16 bits	
Flicker		
Frequency Range	10 to 165 Hz	
Feature		
Capture Function	One time	
Operation Mode	Standalone Mode / Bluetooth Mode <sup>*4</sup> / USB Mode ( PC connection )	
Integration Mode	Auto	

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
	4. Color Rendering Index (CRI, Ra) / R9
	5. Percent Flicker
	6. Spectral Power Distribution (SPD) mW/m <sup>2</sup>
	7. Peak Wavelength ( $\lambda_p$ )
	8. Blue Light Weighted Irradiance (Eb) w/m <sup>2</sup>
	9. Blue Light Hazard Efficacy of Luminous Radiation (Kbv) w/lm
	10. Blue Light Hazard Blue-ray % (BL%)
	11. Blue Light Hazard Risk Group(RG)

System Configurations	
Display	0.96" 128X64 mono OLED
Max. Files	≈ 1.2 million Files @ 8GB SD Card ( Excel )
Battery Operation Time	≤ 3 hours / Fully Charged
Power	USB Power; 700 mAh ( 3.7V Rechargeable Li-ion Battery )
Data Output Interface	Micro SD Card ( SD2.0,SDHC / up to 32G ) /Mini USB Port ( USB 2.0 ) / Bluetooth 3.0 and 4.0 compatible with iOS and Android
Data Format	Compatible Excel
Dimensions	90 x 30 x 32.2 mm ( H x W x D )
Weight ( with Battery )	70 g ± 5 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

### 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.

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