

technilux



Compact MK350D

Handheld Spectrometer

Specification

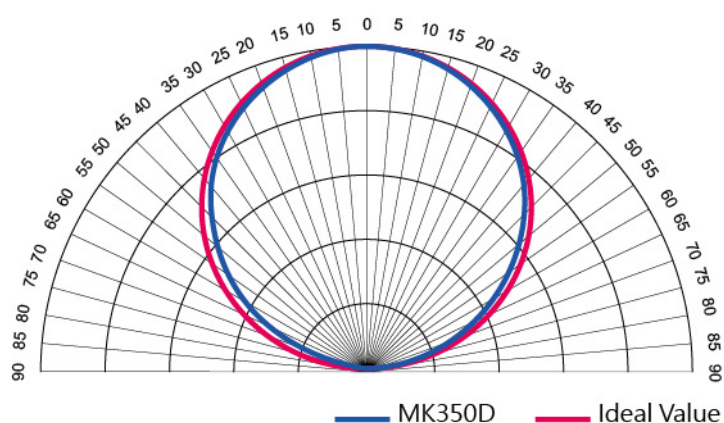
Spectrum		
Sensor	CMOS Linear Image Sensor	
Wavelength Range	380 to 780 nm	
Wavelength Data Increment	1 nm	
Spectral Bandwidth	Approximately 12 nm (Half Bandwidth)	
Wavelength Reproducibility	$\pm 1 \text{ nm}^{*1}$	
Measurement Range	70 to 70,000 lx	
Illuminance Accuracy	Illuminant A @ 2,856 K at 20,000 lx ^{*2}	$\pm 5\%$
Color Accuracy		± 0.0025 in CIE 1931 x,y
Color Repeatability		x y : 0.0005
CCT Accuracy		$\pm 2\%$
CRI Accuracy @ Ra		$\pm 1.5\%$
Stray Light	-25 dB max. ^{*3}	
Integration Time Range	6 to 1,000 ms	
Digital Resolution	16 bits	
Flicker		
Frequency Range	5 to 165Hz	
Feature		
Capture Function	One time / Continuous	
Operation Mode	Standalone Mode / Bluetooth Mode ^{*4}	

	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 ²
	7. Peak Wavelength (λp)

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±2°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.

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