

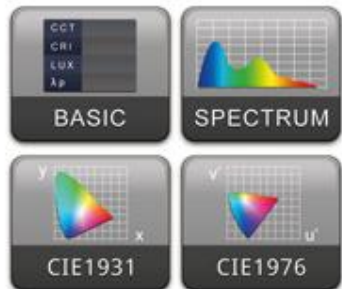
MK-350

Your best tool in light - Count on that!

MK350
LED METER



Measuring Modes



Capture Function



one time capture



continuous capture



Save Data Format

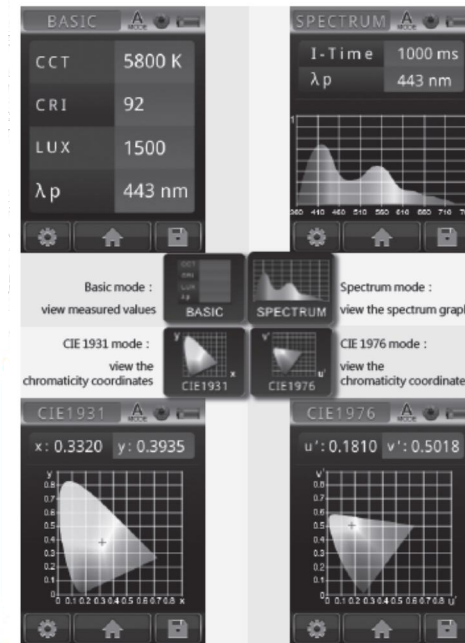


EXCEL



BMP

Stop guessing - know your light!



LED Lighting and Smart Device Application



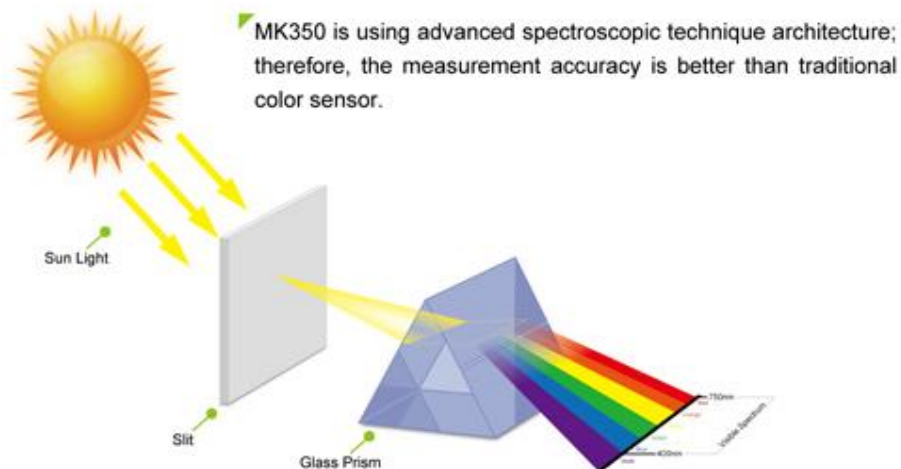
HW&SW integration



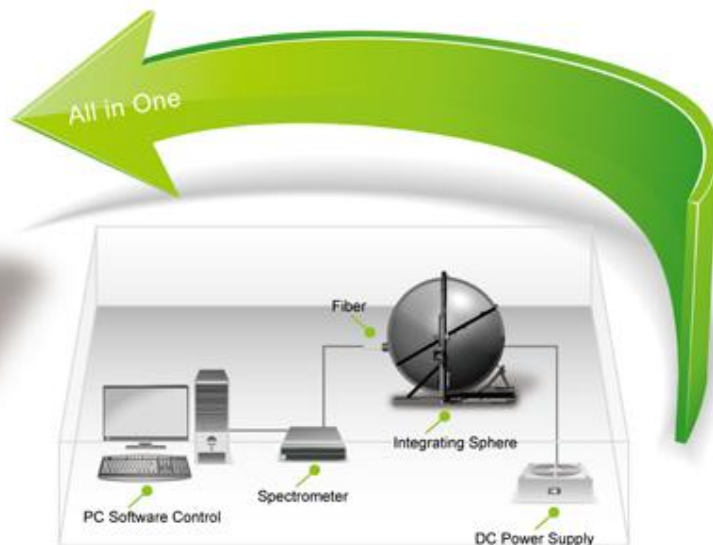
Color Performance in LED



TECHNOLOGY



Traditional spectrometer needs to use a PC or notebook for data analyze, UPRtek combines all functions into MK350 to let users process data analyze operation easily.



INTRODUCTION

MK350 is a cost-effective LED Meter which provides CRI · CCT · LUX · λ_p · Spectrum · CIE x,y 6 major functions.

The light weight design and the measurement data appears instantly without computer connection solutions both enhance the usage experience in the place where people live and work. The perfect measurement equipment that provide great help on LED professional field and customer markets.



The 3.5 inch color touch screen, simply interface with color images keep up with the times, users can experience it effortlessly at measuring like never before.

SD card storage is an essential function after various kinds of environment measurement for whole day long.

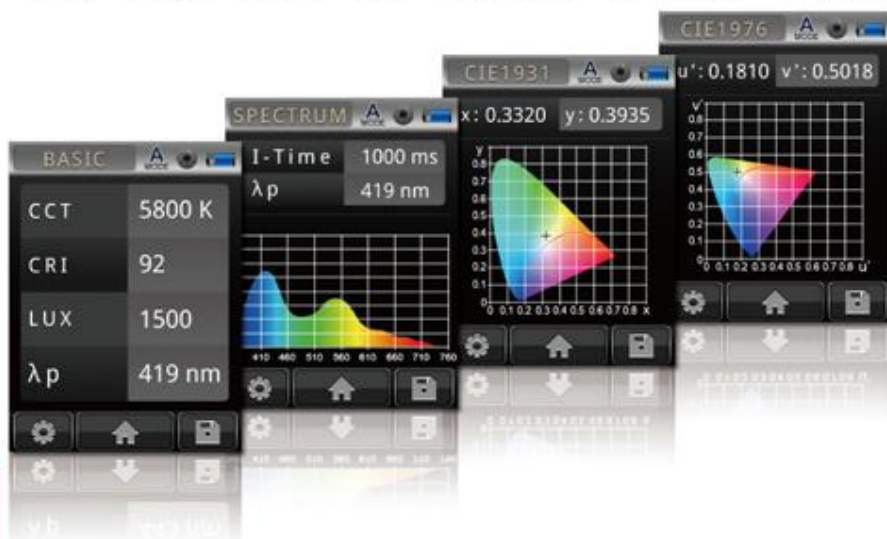
The additional Excel file and BMP file data saving selection are just wonderful for data analysis.

FEATURE & FUNCTION



- 250g Only, Light and Easy to Carry
- Measure at Any Time, High Mobility
- 3.5" Color Touch Screen
- Simple Interface, Easy to Use
- SD Card Storage, Easy to Transfer Data

■ CCT ■ CRI ■ LUX ■ λp ■ Spectrum ■ CIE 1931 ■ CIE 1976



APPLICATION

■ LED Industry Chain :

Computer and mobile phone backlight module / Car lighting / Commercial light/ Home lighting



Backlight Module



Car Lighting

■ LED applications :

Research / Quality Control / Sale and Demonstration / Home and Life

1. Research : high CRI and accurate CCT require
Such like: Medical · Research and Lab
2. Quality Control : production standard value and yield inspection
Such like: Material incoming inspection · Final quality control inspection
3. Sale and Demonstration : comfort the environment and product beautification
Such like: Store lighting · Display cabinet lighting · Outdoor advertising screen test and Show room interior design
4. Home and Life : indoor and outdoor lighting
Such like: Home/Office/Museum/Street lighting · Photo environment lighting assist



Medical



Laboratory



Final Quality Control Inspection



Store Lighting



Display Cabinet Lighting



Outdoor Advertising Screen Test



Show Room Interior Decoration



Street Lighting



Photo Environment Lighting

SPECIFICATION

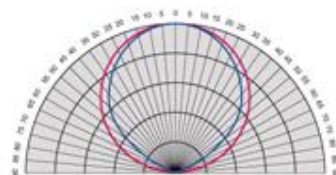


Figure 1 : Cosine Correction — MK350 — Ideal Value

Sensor	CMOS Linear Image Sensor	
Spectral Bandwidth	Approximately 12 nm (half bandwidth)	
Receptor Size	$\varnothing 6.6 \pm 0.1$ mm	
Cosine Correction	Refer Figure 1.	
Measurement Range	70 ~ 70000 Lux	
Wavelength Range	360 ~ 750 nm	
Integration Time Range	8 ~ 1000 ms	
Capture Function	One time / Continuous	
Integration Mode	Auto / Manual	
Measuring Modes	1. Basic Value Mode 2. Spectrum Graph Mode 3. CIE 1931 Chromaticity Diagram Mode 4. CIE 1976 U.C.S Chromaticity Diagram Mode	
Measuring Capabilities	1. Illuminance / Lux 2. Spectral Irradiance 3. C.I.E. Chromaticity Coordinates (1) CIE 1931 x,y Coordinates (2) CIE 1976 U.C.S u',v' Coordinates 4. Peak Wavelength 5. Correlated Color Temperature; CCT (in Kelvins) 6. Color Rendering Index; Ra (Rendering Average)	
Digital Resolution	16 bits	
Dark Calibration	Yes	
Stray Light	-25 dB max. ^{*1}	
Wavelength Data Increment	1 nm	
Wavelength Reproducibility	± 1 nm ^{*2}	
Illuminance Accuracy	Illuminant A @ 2856K at 20000 Lux	$\pm 5\%$
Color Accuracy		± 0.0025 in CIE 1931 x,y
Color Repeatability		± 0.0005 in CIE 1931 x,y
CCT Accuracy		$\pm 2\%$
CRI Accuracy @ Ra		$\pm 1.5\%$
Display	3.5" LCD 320X240 Touch Panel	
Max. Files	≈ 2000 Files @ 2GB SD Card	
Battery Operation Time	≤ 5 hours / Fully Charged	
Battery	2500 mAh / Rechargeable Li-ion Battery	
Data Output Interface	SD Card / USB 2.0	
Data Format	Compatible MicroSoft Office Excel / BMP Date Format	
Dimensions	144.2 x 78 x 24 mm (H x W x D)	
Weight (with Battery)	250 g \pm 20 g	
Operating Temperature Range	0 ~ 35 °C	
Storage Temperature Range	-10 ~ 40 °C	
Language Modes	English / Traditional Chinese / Simplified Chinese / Japanese	

*1 : Use the input of 550nm single-frequency and measurement the range of optical ± 40 nm.

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

The company reserves the right to change product specifications, if it has any changes will not give any notice.

CERTIFICATE & AWARDS

- CE ■ FCC ■ Industrial Technology Research Institute
- Outstanding Enterprise Manager Association Award



PARTNER & CUSTOMER



Scandinavia:

Upgraders Energy

www.upgraders.dk * thomas@upgraders.dk * Phone: +45 4050 1939



step1 : Point sensor head towards light source

step2 : Press capture key

step3 : 3 seconds only, measured data will display on the screen

Easy Three Steps to Measurement