UPRtek

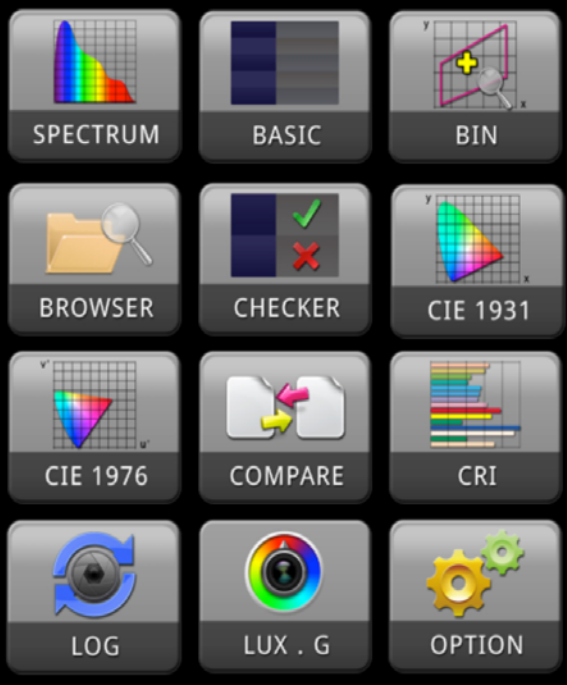
Advanced LED spectrometers for LED professionals

ASMETEC

A ton of advanced technology in just half a pound

Dedicated designed for:

- LED maufacturers
- Lighting designers
- Sales support
- Purchase dept.
- RMA handling
- R&D dept.
- Technical support
- Film & Entertainment Industries
- Agriculture
- Trade shows
- Education & Training
- Laboratories
- Photographers



Wi-Fi
Available on the App Store
ANDROID APP ON Google play

Model	MK350N PLUS Basic	MK350S Advanced	MK350D Compact
Spectral Bandwidth	Approx 12nm(Half)	Approx 12nm(Half)	Approx 12nm(Half)
Wavelength Range	360nm ~760nm	380nm~780nm	380nm~780nm
Integration Time Range	8 ~1000ms	6~1000ms	6~1000ms
Display	3.5"LCD 320x240 Touch Panel	4.3"LCD 800x480 Touch Panel	1.0" OLED Panel
Battery	2500mAh/Rechargeable Li-ion	2500mAh/Rechargeable Li-ion	750mAh/Rechargeable Li-ion
Data Outout Interface	SD Card/USB2.0	SD Card/mini USB2.0	Micro SD/mini USB2.0
Data Format	Office Excel / BMP image	Office Excel / JPG image	Office Excel
Wireless connection	WiFi	WiFi	Bluetooth
Dimensions / Weight	144.2x78x24nm(HxWxD) Approx 250 ± 20 g	163x81x25.8nm(HxWxD) Approx 250 ± 5 g	33x33x90nm(HxWxD) Approx 70 ± 5 g
Wavelength Data Increment	1 nm	1 nm	1 nm
Wavelength Reproducibility	± 1 nm (Input source must be a stable light source.)	± 1 nm (Input source must be a stable light source.)	± 1 nm (Input source must be a stable light source.)
Color Accuracy	± 0.0025 in CIE 1931 x,y	± 0.0025 in CIE 1931 x,y	± 0.0025 in CIE 1931 x,y
Color Repeatability	± 0.0005 in CIE 1931 x,y	± 0.0005 in CIE 1931 x,y	± 0.0005 in CIE 1931 x,y

Device Mode			
BASIC	v	v	v
SPECTRUM	v	v	v
CIE1931	v	v	v
CIE1976	v	v	v
CRI	**v R1 – R15**	**v R1 – R15**	**v R1 – R15**
COMPARE	**x**	v	**x**
LUX.G	**x**	v	**x**
LOG	**x**	v	**x**
BIN / SDCM	**x**	v	**x**
CHECKER	**x**	v	**x**
BROWSER	**x**	v	**x**

Model	MK350N PLUS	MK350S	MK350D
	Basic	Advanced	Compact

Measuring Capabilities on Device			
CRI	Ra & R1~R15	Ra & R1~R15	Ra & R1~R15
CCT	V	V	V
Lux	V	V	V
Color / x	V	V	V
Color / y	V	V	V
Color / u'	V	V	V
Color / v'	V	V	V
λp	V	V	V
λd	V	V	X
fc	V	V	V
Flicker	V (1-100 %) (10- 165 Hz)	X	V (1-100 %)
duv (⊿uv)	V	V	X
Purity	V	V	X
Δx	V	V	X
Δy	V	V	X
Δu	V	V	X
Δv	V	V	X
PPF (400nm~700nm) µmol* m-2* s-1	X	V	X
PPF-R (600~699nm) µmol* m-2* s-1	X	V	X
PPF-G (500~599nm) µmol* m-2* s-1	X	V	X
PPF-B (400~499nm) µmol* m-2* s-1	X	V	X
PPF-UV (380~399nm) µmol* m-2* s-1	X	V	X
PPF-NIR (700~780nm) µmol* m-2* s-1	X	V	X

Application			
Apps Name	MK350N Plus	MK350S	MK350D
OS	iOS & Android	iOS & Android	iOS & Android
Connection	WiFi SD	WiFi SD	Bluetooth
Optional Accessary	yes (WiFi SD Card)	included (WiFi SD Card)	embedded
PC Software(uSpectrum)	Wing pack 3 in 1 included	included	included
Certificate			
CE	V	V	V
FCC	V	V	V
NIST Traceability Report	V	V	V

PC software and wireless control

- Remote controlled measurement
- Tool for Quality Control during audit to supplier
- Real-Time test report
- Production line inspection tool

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Software for QC

- Suitable for QC in IQC, IPQC, OQC as inspection equipment.
- Suitable for MFG as in-line inspection equipment.
- Real-Time & Easy inspection of LED product.
- Customized settings for specified continuous value measuring.
- Automatic continuous measurements with data-save to a SD card
- Suitable for RD, FAE, QC for detail analysis with statistic figuring.

For animated demo movies please visit our youtube channel

www.youtube.com/uprtekeurope

YouTube

NEW: Advanced flicker spectrometers

Operation Modes:

- Flicker mode
  Flicker index / Percent flicker / VESA FMA / Frequency
- FFT mode
  Flicker frequency-domain diagram
- Light-wave mode
  Flicker time-domain diagram
- BASIC mode
  CCT / CRI / LUX / λP / i-Time
- SPECTRUM mode
  Visible light spectrum



MF250N Flicker Meter

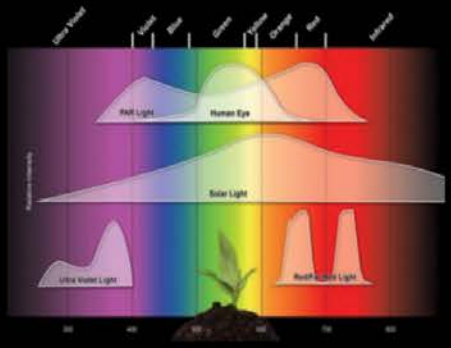
Spectrum	Sensor	CMOS Linear Image Sensor
	Spectral Bandwidth	Approximately 15 nm（half bandwidth）
	Receptor Size	φ6.6± 0.1mm
	Wavelength range	380~780nm
	Integration time range	6~1000ms
	Measurement Range	70~70000 Lux
Flicker	Sampling rate	5K/Sec
	Frequency range	5~2000Hz
	Frequency resolution	5Hz
	Measurement Range	30~60000 Lux
	Standard	IES/ ASSIST/ ENERGY STAR/ VESA
	Measure response	<1.0S
General	Measuring Modes	1.Basic Mode 2.Spectrum Mode 3.Flicker Mode 4.FFT Mode 5.Lightwave Mode
	Measuring Capabilities	1. Flicker Index 2. Flicker Percentage 3. VESA FMA 4. FFT Frequency 5. Flicker frequency-domain graphic 6.Flicker time-domain graphic 7. CCT 8. CRI (Ra) 9. Illuminance (LUX) 10. λP 11. iTime 12. Spectrum Graphics
	Illuminance Accuracy	Illuminant A @ 2856K at 20000 Lux ± 5%
	CCT Accuracy	± 3.5%
	CRI Accuracy @ Ra	± 2.5%
	Flicker Accuracy	± 5%
	Display	2.8" TFT LCD, 240x320 Pixel, 262K color
	Battery	AA Battery x4
	Dimension	180*65*30mm (H x W x D)
	Weight	250 g ± 20 g
	Operating Temperature Range	0~35℃
	Storage Temperature Range	-10~40℃

PPF – Photosynthetic Photon Flux Density

Capacity for Measuring of PPF

PPF UV(380nm~399nm) /μmol m-2 s-1	PPF(400nm~699nm) /μmol m-2 s-1
PPF B(400nm~499nm) / μmol m-2 s-1	PPF G(500nm~599nm) / μmol m-2 s-1
PPF R(600nm~699nm) / μmol m-2 s-1	PPF NIR(700nm~780nm) / μmol m-2 s-1

MK350S Advanced only



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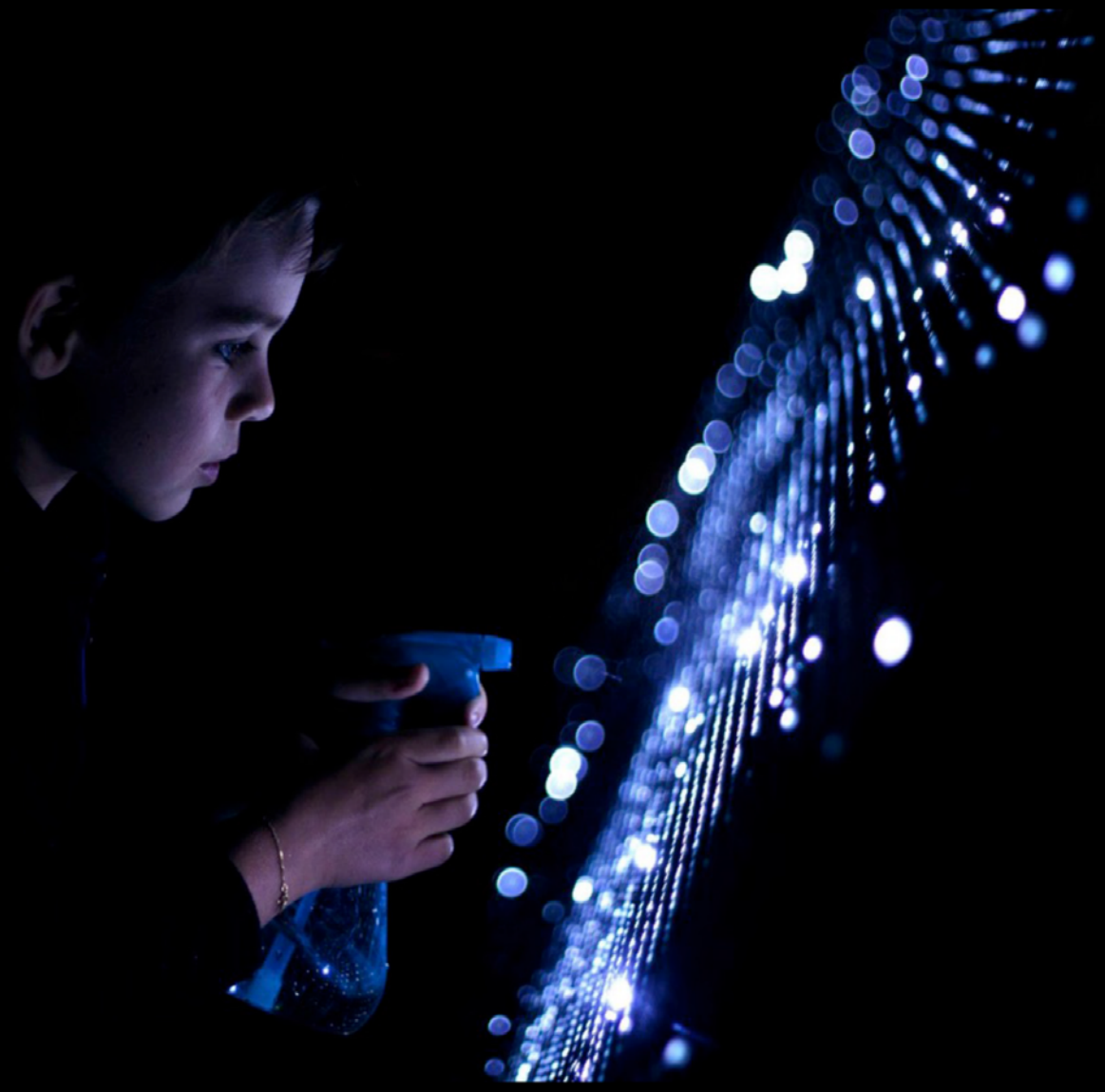
inquisitive?



Please contact us for questions, inquiries or demos

We are looking forward to support you

Asmetec GmbH
info@asmetec.de
www.asmetec-shop.de
FON: +49-(0) 6352-750680