

UPRTEK MK350D - SPECTROMETER

LED Flicker Meter, Spectral Light Meters, Percent Flicker

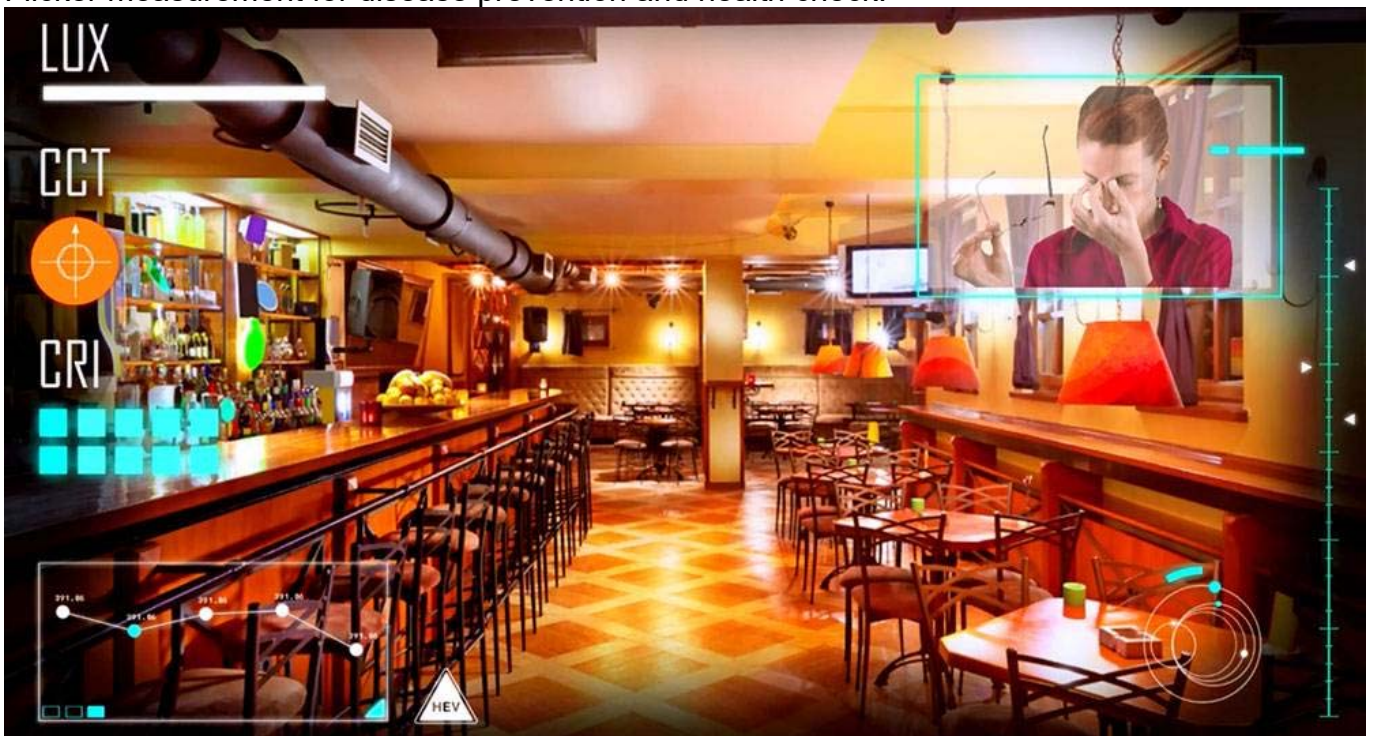


UPRtek MK350D Compact Spectrometer

UPRtek Compact MK350D is the pocket-Sized spectrometer in the world and released in 2014. It is only 70g and easy to carry. Measurement light units are more than 27, such as CCT, LUX, CRI, CIE1976 u, v', CIE1931 x, y, Spectrum diagram, Percent Flicker and others. Until now, MK350D is standalone, the lightest Bluetooth smart control Handheld Spectrometer and Flicker Meter.



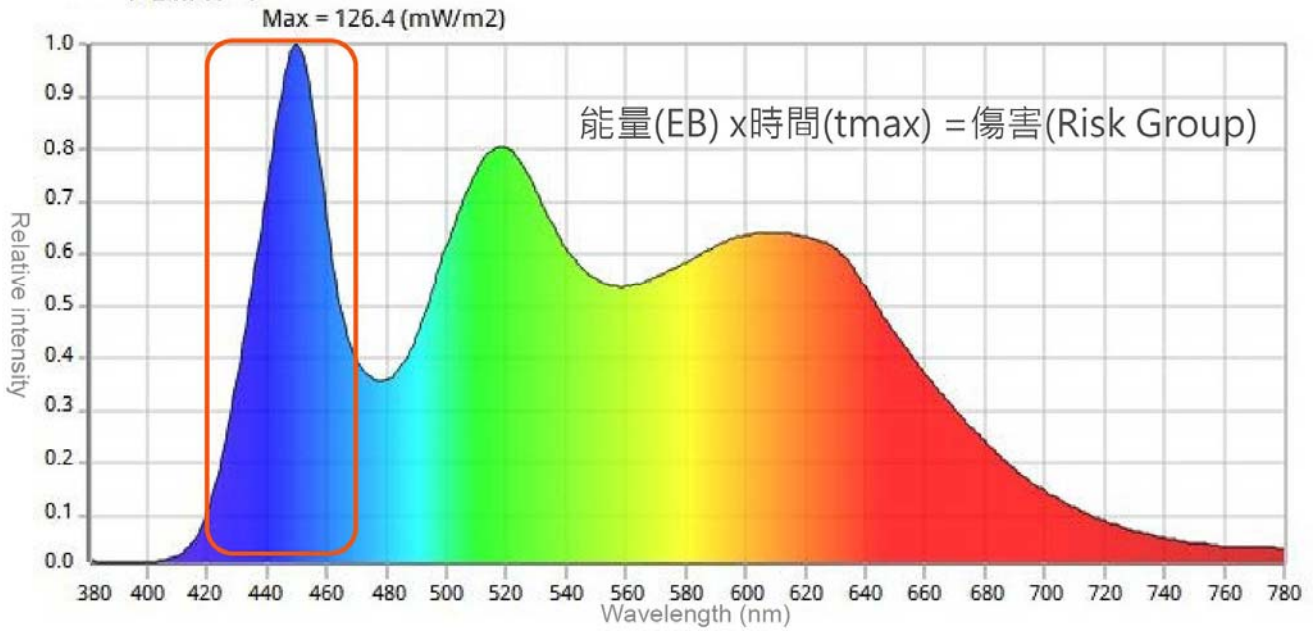
Flicker measurement for disease prevention and health check.



Measuring Harmful Blue Light

MK350D Compact spectrometer adopts the IEC/ TR 62778 which used the IEC 62471 for the assessment of blue light hazard to light sources and luminaire to assist you to lessen the blue light hazard from happening. The widespread use of 3C products leads to eye diseases happening continuously, such as early cataracts, Macular degeneration and so on. However, the degree of eye damage is mostly related to light intensity, light source distance and exposure time. How to find out the risk factor and prevent it early is the best way to stop the blue light from harming human's eye. Blue light wavelength is from 401nm-500nm.

光譜圖 (Spectrum)



Blue light weighted irradiance (EB): Intensity of blue light hazard.

Blue light hazard efficacy of luminous radiation (K_{bv}) = EB / E (Lux). Blue light hazard power ratio per unit of lumens.

BLH Risk Group (RG): The higher the E_b, the "shorter" exposure time is allowed.

Blue Light Hazard-Blue-ray %: The irradiance ratio of blue wavelength (401nm-500nm) for LED. BL% can be applied for museum lighting to avoid the antiquities damages from the blue light.



RG	Definition	Tmax (s)
RG0	Exempt	>10000 sec
RG1	Low	>100~10000 sec
RG2	Moderate	0.25~100 sec
RG3	High	<0.25 sec

Standalone operation, no need smart phone or PC connection.



Supports Micro SD card unlimited data storage for measurement.



Compatible with smart devices, Wireless control by Bluetooth.



Additional uSPECTRUM App and Software for advance analysis.



Source: UPRtek