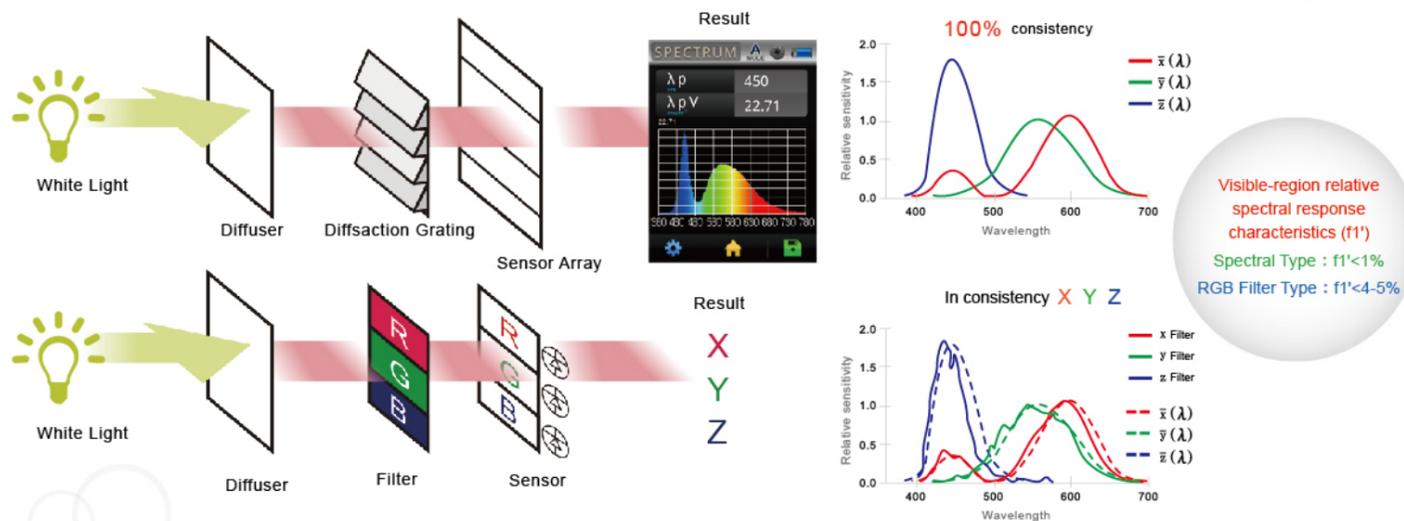


Differences Between Spectral Type and RGB Filter Type

Type	Technology	Components	Concept	Result
 Spectrometer	Spectral Type	Diffuser Diffraction Grating Sensor Array	Light source goes through the "Diffraction Grating and Sensor Array" to collect the spectrum and dispers the light for analysis.	Obtain spectral energy and come out the CIE XYZ
Color Analyzer	RGB Filter Type	Diffuser Filter Sensor	Light source goes through the "Filter and Sensor" and execute light analysis.	Sensor provides the CIE XYZ directly.

Summary:  
 1. Spectrum information: Spectrometer (✓); Color Analyzer (✗)  
 2. CIE XYZ accuracy: Spectrometer > Color Analyzer



Product Features & Competitive Advantages

- Ⓞ In-house RD team, one-step production and direct sale service.
- Ⓞ All in One design with multi-measurement.
- Ⓞ Professional spectrometer tool with post-analysis software.
- Ⓞ Integration ability on optical, mechanical and electronic for customized service.
- Ⓞ Globalization of marketing and support service system guaranteed.



NO Flicker, Get Health

In the past years, energy saving bulbs and LED lights were not developed yet. Most families relied on traditional bulbs such as Tungstens bulbs. These lights have filament which glows when it is heated with flow of electricity. They usually will not have flicker issue because the heat and light from filament lingers. Due to the rising public awareness of the environment protection, most people switch to the Energy Saving Light Bulbs and LED Lamps. These two kind of lights are affected by current fluctuations and produced the high risk of flicker that human cannot see it easily. A right tool to verify the light and help to fight flicker is important, it helps lighting designers and lighting manufacturers to verify lights are compatible with the dimmers and control circuits used in the lighting system and avoid flicker successfully. All of above, a best Flicker Meter should consider to built-in flicker standards on international organization( CIE, Energy Star and IEEE), represent the initial frequency and waveform of the light sources for further research and development.

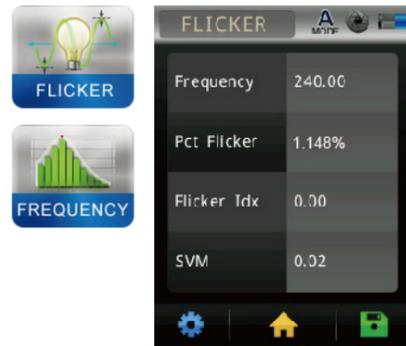
FLICKER Capture	
Findex	0.003
Fpercent (%)	003.4
SVM	0.020
Freq (Hz)	480



**Recommended Measurement Functions**

**Commercial Lighting Industrial Promotion**

- Percent Flicker-A relative measure of the cyclic variation in the amplitude of a light.  
Range: 0%-100%. Lower Percent Flicker is better.
- Flicker Index-A measure of the cyclic variation taking into account the shape of the waveform.  
Range: 0-1. Lower Flicker Index is better.
- SVM (Stroboscopic Effect Visibility Measure)- It uses Fourier analysis to convert the light-intensity waveform from its time-domain to its frequency-domain. Then, it will be calculated in relation to the human eye frequency.  
Range: SVM <1, Not Visible. (Lower SVM is better)  
SVM >1, Visible  
SVM =1, Just Visible
- Flicker Risk Mode- Users will know the flicker risk level easily based on the IEEE std 1789-2015.



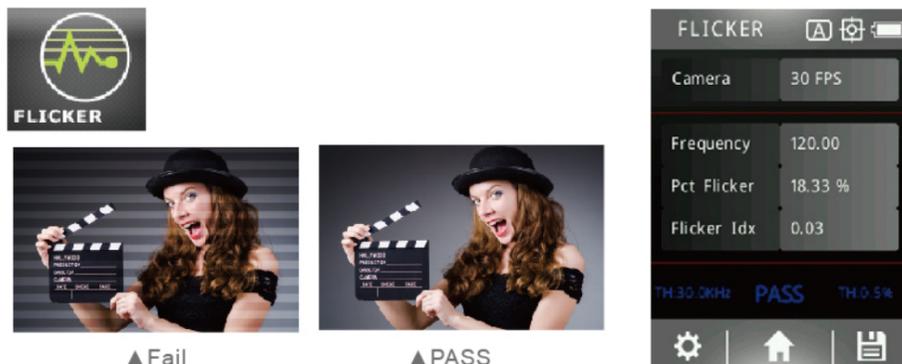
※ Recommendation Models:  
MF250N Flicker Meter  
MK350N Premium Spectrometer  
MK350S Premium Spectrometer



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MK350N Premium Spectrometer  
MK350S Premium Spectrometer

**Film& TV Lighting Industrial Promotion**

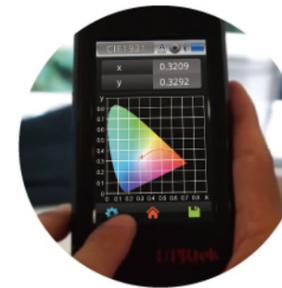
- Flicker Free- Monitoring the light source and camera FPS (Frame per Second), offering a flicker free shooting environment.



※ Recommendation Model: CV600 Spectral Color Meter

**Measurement Description**

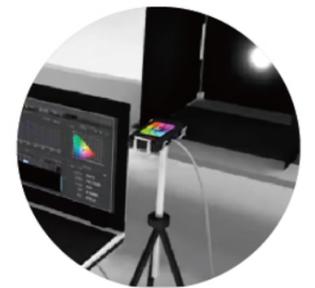
Multiple measurement solution provider, unlimited capturing the real light output, and making effective communication with customers.



▲ Stand-alone Measurement



▲ APP Measurement

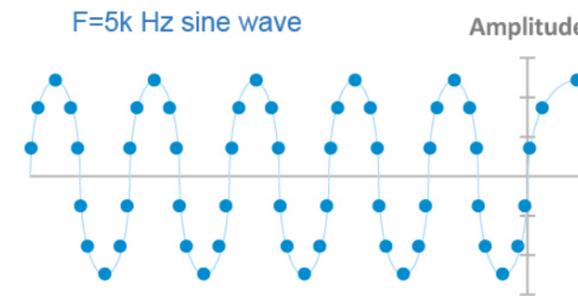


▲ PC SW Measurement

\* MF250N provides standalone measurement service.

**Application Categories**

**Film & TV Industry**

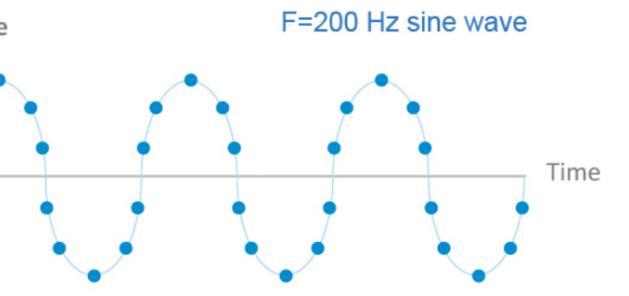


Frequency Range : 5 to 50k Hz  
Sampling Rate : 100k sample/sec



Cinematic Lighting Sports Lighting

**Commercial Lighting Industry**



Frequency Range : 5 to 2,000 Hz  
Sampling Rate : 5k sample/sec



Wearable Device Indoor Lighting