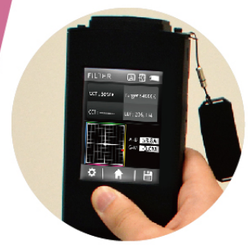
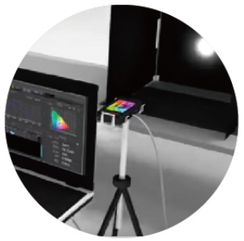
Multiple measurement solution provider, unlimited capturing the real light output, and making effective communication with customers.



▲Stand-alone Measurement

▲APP Measurement



▲PC SW Measurement (Only Read)

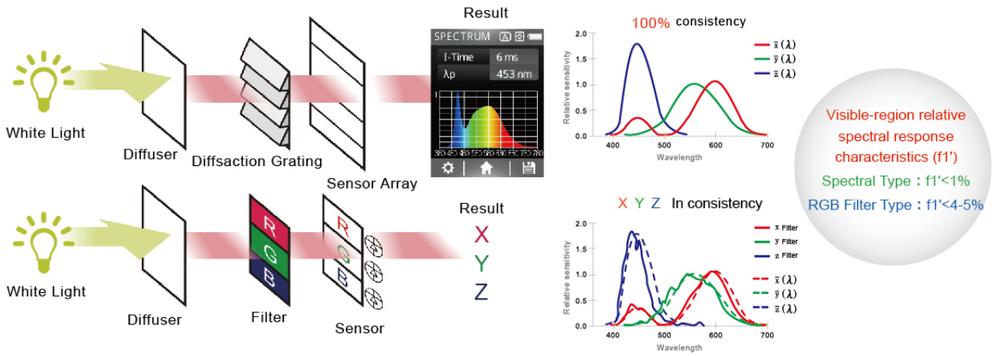
Differences Between Spectral and RGB Filter Types

Type	Technique	Component	Theory	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.

- Spectrum information：Spectrometer (✔)；Color Analyzer (✖).
- CIE XYZ accuracy：Spectrometer > Color Analyzer.

High accurate measurement performance

Make sure that the spectral sensitivities of x (λ) / y (λ) / z (λ) are comparable to the CIE1931 color matching function. Easily enhance the chroma accuracy and provide measurements result which closer to the human visual function.



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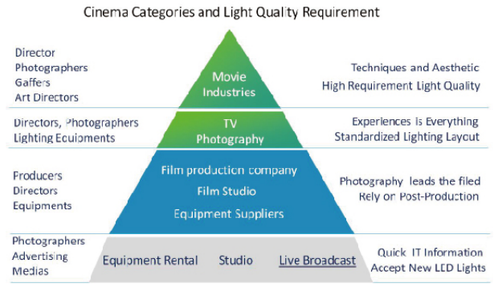
The era of cinema light 4k/ 8k

Cinema industry is combined with techniques and Aesthetic. What's more, it's higher creative and closed to our life, culture, conscientious and sentimental thinking, including art, image, photography and optics. All of them are one of a kind. The covered industries could be categorized as below:



In the cinema industry, lighting techniques transform from the traditional light (Halogen/Tungsten, Fluorescent and Metal Halide) to brand-new LED. In the beginning, LED couldn't replace the value of traditional lights in old gaffer's minds. As a result, many studios use variety kinds of lights. It's a long-term transformation. No one could predict how long will be the transformation. Therefore, lighting techniques gradually change from the learning via experiences from professional specialists to the specific educational system. With the progress of development, specialists meet the sticky situation that how to build the standard process and criteria to synchronize with technology around the world. Furthermore, it could lead the cinema industry. Recently, cinema industry has put emphasis on image processing and skills of playback. They tend to promote the feelings of presence and vividness of high resolution films, which speed up the development of 4K/8K cinema industry. In this era, it's really significant to own a useful tool.

CV600 Spectral Color Meter

In the time of the tungsten, light meters are the main equipments for photographers, gaffers etc. Also, the key features are aperture, ISO and shutter speed and lux distribution. By this device, the light quality is undoubtedly precise. While the measurement, it needs CCT, LUX and the BIG 3 (ISO, aperture and shutter speed), and so on. Consequently, the coming of 4K/8K era, LED becomes more and more universal. We must concentrate on understanding indexes for new light quality so that we could be ready to welcome the brand-new cinema century!

Look Before You Leap! Set a flicker free scenario!

Cinema LED tends to emphasize on high frequencies and flicker free. All of it is aim to prevent the film from flicker. However, it's not the case. The main reasons are that in the scenario, not the whole LEDs are high frequency. Many of the lights in it are not prepared by themselves. Also, for some situation with special effect, it would need the mixed light sources. Therefore, two methods could deal with the flicker in film. First, you should ensure that your lights are all flicker free. Yet, it's a really hard task. Furthermore, you could make sure that the scenario is lower or even flicker free. It's the best way!

Flicker Mode-to measure frequency and flicker of LED

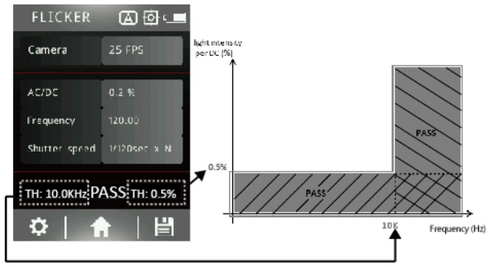
- Via CV600, you could get the information about frequency in that scenario(Hz).
- The lower Flicker Percentage, the lower chances to happen flicker.

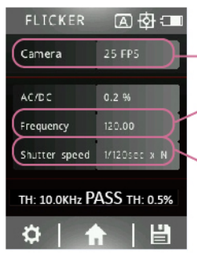
Flicker Mode-to measure the flicker in scenario

Three Steps of flicker free:

1 Set the threshold of flicker free.

For example: as the frequencies are above 10K HZ, and you don't need to care about flicker. Then you could set the threshold as 10K, which means that if the lights over 10Khz, the device would show "PASS."





2 FPS v.s. Frequency

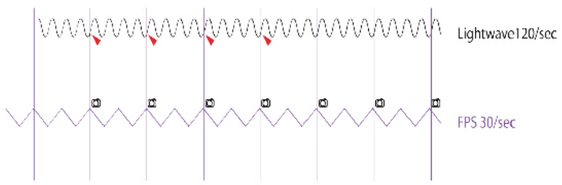
For example: if frequency is the multiple of FPS, it would show PASS.

3 Shutter Speed v.s. Frequency

If it's show FAIL and you couldn't change your FPS...

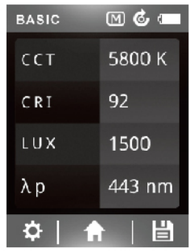
You could adjust the shutter speed in your camera to be closed to the suggested number in CV600.

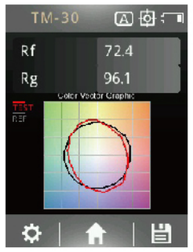
Picture about frequencies are synchronize with FPS

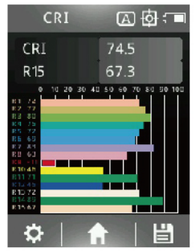


The Best choice for cinema specialist! It's really a useful tool!

The basic mode-CCT,CRI,TLCI,TM-30,etc. (to judge quality of lights)

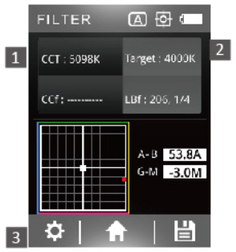


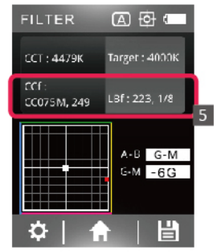




Filter Mode

It is compared with the traditional Tungsten main to change the circumstances of the scenario or it could go well with the climax in the plot. Also, it builds in the well-known filter brand as the database offered to the users.



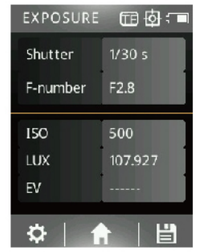


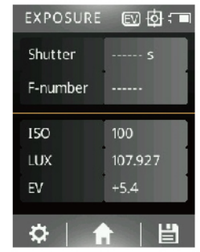
Via the device, it would offer suggested gels (CCf/Lbf). In the photography, it's the familiar concept for them to deal with the hue, saturation and color vector graphic in the camera.

Five Steps of Measuring:

1 Target the amount of CCT
2 Present CCT value
3 Choose the filter brand
4 Measured
5 Filter recommendation
Present CCT value close to Target CCT value.

Exposure Mode-definition and the suggested indexes of ISO, Aperture and Shutter Speed.





	Personalized setting value		Measured value		
T Mode	Shutter	Sensitivity	Aperture (F value)	Illuminance	Exposure value
F Mode	Aperture (F value)	Sensitivity	Shutter	Illuminance	Exposure value
TF Mode	Shutter	Aperture (F value)	Sensitivity	Illuminance	Exposure value
EV Mode	No need to manually set, all values are automatically measured.				