ASENSETEK

Extend your sense

Spectrum is like the fingerprint of all things on earth.

With it, we can find the ESSENCE of every thing.

Where the SPECTRUM can be applied for?

Lighting

Light Fixture

Photography

Film

Colors

Screen

Biomedical

Analysis

The Mobile Generation, you have the Better Choice.

What is the Lighting Passport?

Lighting Passport is the world's first smart spectrometer which uses smart devices' application feature to operate.

Not only a meter, but also a Platform.

By the App development, your idea can be realized.

Flexible Options, and App Remote Control

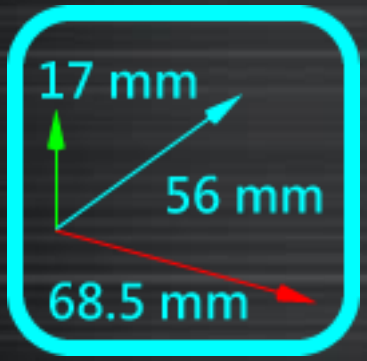
We provide "Stand" and "Clipper" to make Lighting Passport's user have more flexible options in use.

Industrial Design make meter extend a new sense.

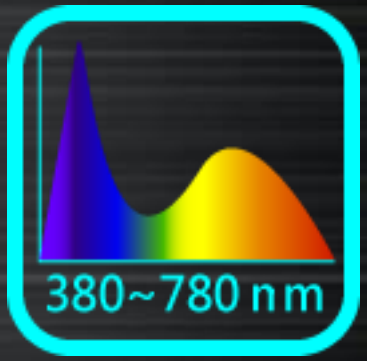
In Flagship set, we provide a iPod Touch 5 and a special case to make Lighting Passport with iPod Touch like a unity.

The Specification of Lighting Passport

Size



Wavelength Range



Illuminance Range

Net Weight

Integration Time

Optical Resolution

The Accuracy of Lighting Passport

Wavelength

Chromaticity Coordinates

Illuminance

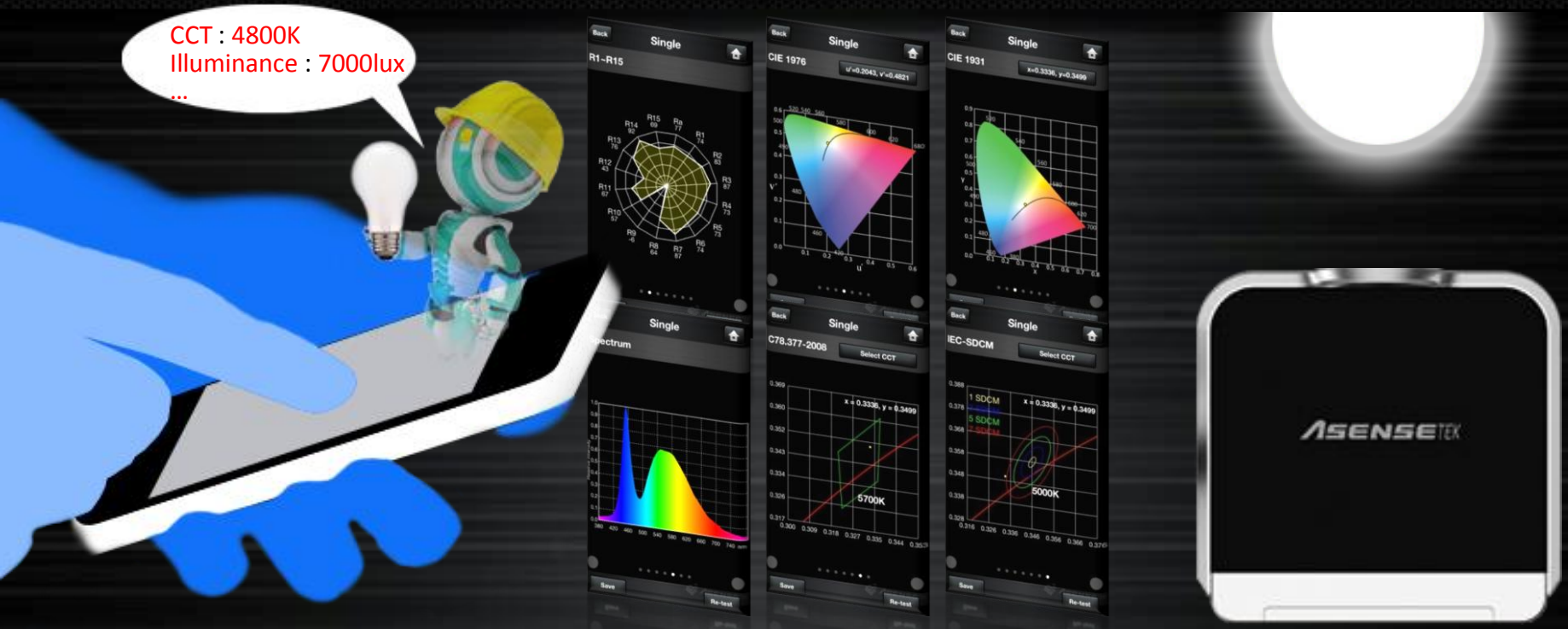
Color Temperature

Repeatability (2σ): x,y < 0.001

The Correction System of Lighting Passport is NIST Traceable.

***Measurement Condition: with NIST Traceable instrument and standard light source**

Handy Laboratory and Portable Engineer



By the preceding statement, Lighting Passport can promptly provide accurate and complete measurement result anytime anywhere.

Most Comprehensive and Flexible Options

Essence
Classic, Suitability

Standard
Professionalism,
Full Completion

Flagship
Industrial Design Appearance,
Long-Term & Frequent Usage

Detail Specification (Standard and Flagship)

Wavelength Range	380 ~ 780 nm
Illuminance Range	Measurable : 5~50,000 lux Reliable Chromaticity : 50~50,000 lux
Optical Resolution	8 nm
Repeatability (2σ)	x,y : < 0.001
Accuracy (@1,000 lux Standard Light Source)	Wavelength : ± 0.5 nm x,y : ± 0.002 Illuminance : ± 3% CCT : ± 2%
Integration Time	6ms ~ 16s
Language	Traditional Chinese Simplified Chinese English / Japanese French / German Russian / Italian

Measurement Mode	Single Multiple Continuous * Subtract Background
Measurement Capability	CCT CRI Re (R1-R15) R1 ~ R15 CQS Illuminance Foot Candle CIE 1931 CIE 1976 Spectrum Diagram C78.377-2008 IEC-SDCM λp λD Purity Duv SP ratio PPFD * Comparison

Detail Specification (Essence)

Wavelength Range	380 ~ 780 nm
Illuminance Range	Measurable : 5~50,000 lux Reliable Chromaticity : 100~50,000 lux
Optical Resolution	10 nm
Repeatability (2σ)	x,y : < 0.0015
Accuracy (@1,000 lux Standard Light Source)	Wavelength : ± 0.5 nm x,y : ± 0.003 Illuminance : ± 5% CCT : ± 3%
Integration Time	6ms ~ 16s
Language	Traditional Chinese Simplified Chinese English / Japanese French / German Russian / Italian

Measurement Mode	Single Multiple * Subtract Background
Measurement Capability	CCT CRI R1 ~ R15 CQS Illuminance Foot Candle CIE 1931 CIE 1976 Spectrum Diagram C78.377-2008 IEC-SDCM λp * Comparison

What kinds problems can be fixed by Lighting Passport in lighting industry ?

Manufacturer

Sales/ Retailer

End-User

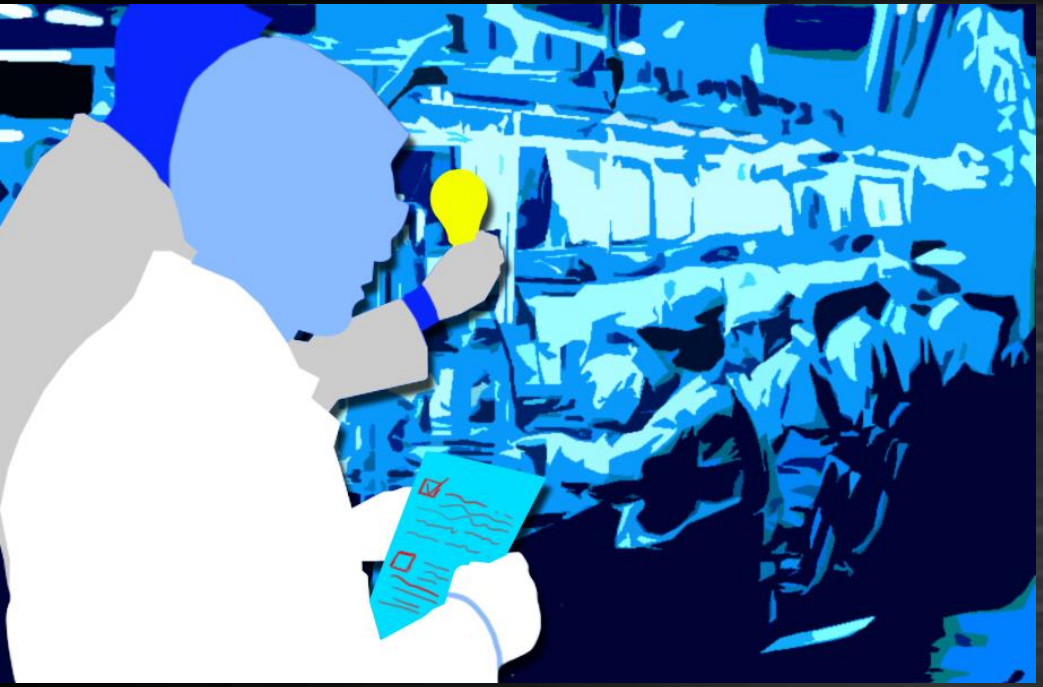
The problem of Manufacturer in lighting industry

Instruments

Time

Manufacturer should spend a lot of time and money to develop product, and those Instruments are usually not portable size, limited information, and need with computer.

The problem of Manufacturer in lighting industry

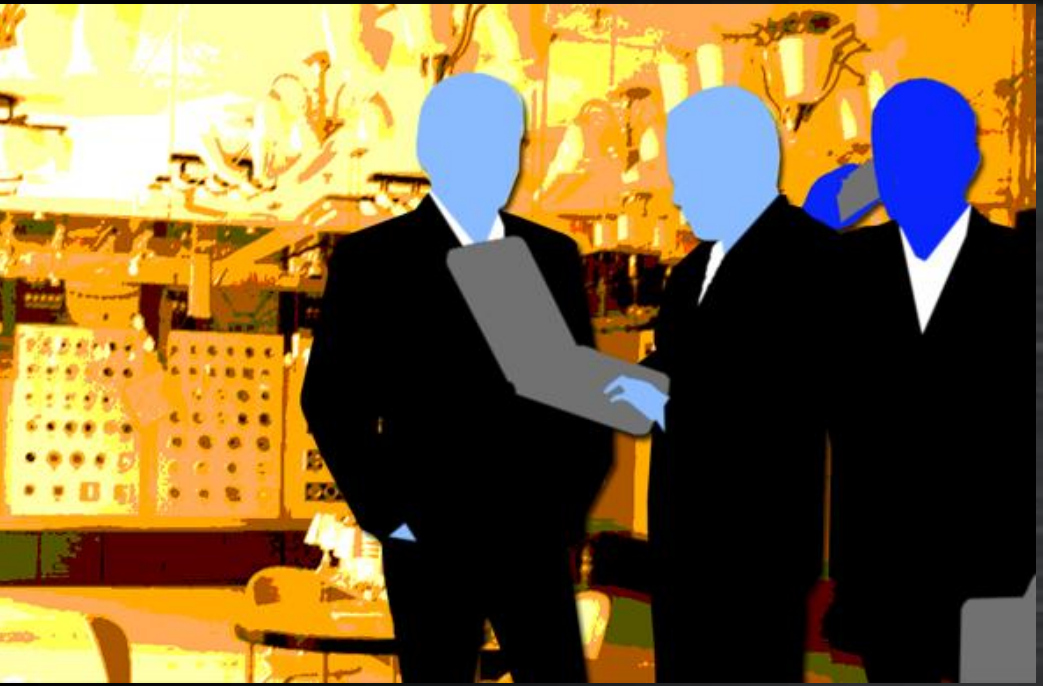


Incoming Inspection

Quality Control

In QC, QA and Incoming Inspection, manufacturer usually cannot have effective checking, and the check report is difficult to analyze and compare.

The problem of Sales/ Retailer in lighting industry



Persuasiveness

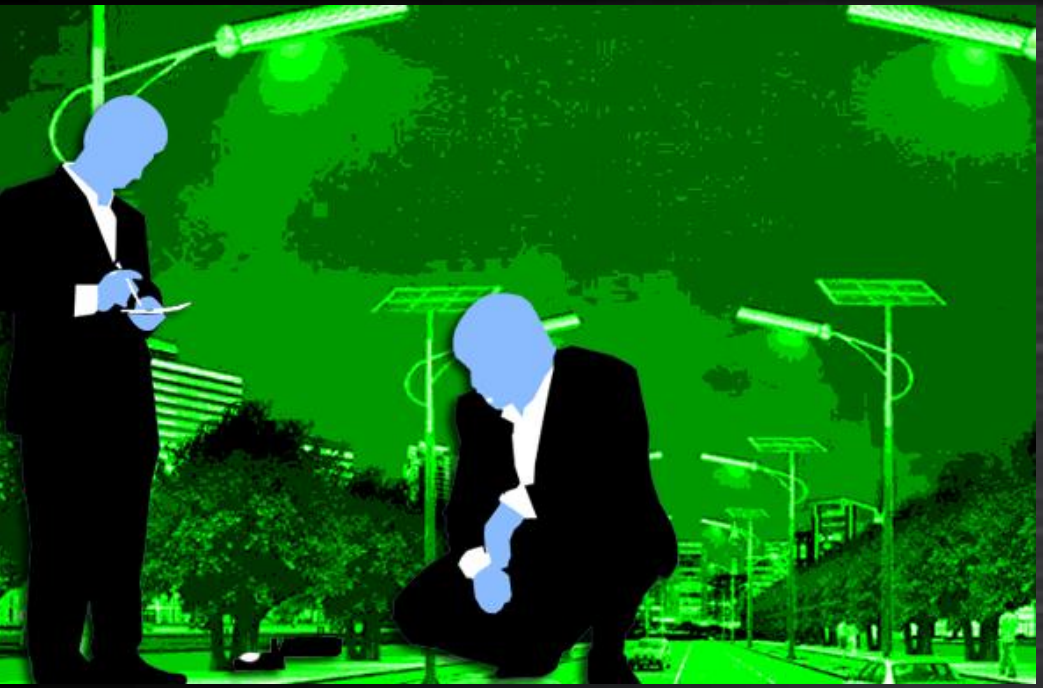
Engineering Support

Consumers not only need Sales/ Retailer provide the product specifications, but also start to request persuasiveness report and professional product answer.

The problem of Sales/ Retailer in lighting industry

When Sales/ Retail face to consumers or buyer, it is difficult to provide a visual comparison and strong explanation without a convenient tool.

The problem of End-User in lighting industry



Construction Project

Acceptance Check

LED lighting is a different light source with traditional lighting, and builder and lighting designer need spend much time in product choice and finish check.

Now, Lighting Passport with the APP will change everything.

Spectrum Genius

Spectrum Genius Mobile SDK OPEN SOURCE

Available on the iPhone App Store

ANDROID APP ON Google play

"Spectrum Genius Mobile" is an APP used in conjunction with the "Lighting Passport", it provides users comprehensive lighting measurement functions.

Other complete follow-up support

Spectrum Genius PC version

PC Software, it can help users analyze the multi-measurement data, export Excel file, save as the project, and print out the report.

Why Lighting Passport can be trusted?

The National Laboratory Validation Testing Report from Taiwan, China, and Switzerland

Why Lighting Passport can be trusted?

NIST traceable calibration environment

- **1. Location of Test**
  - This test was performed at 9F., No.43, Fuxing Rd., Xindian Dist., New Taipei City 23150, Taiwan (R.O.C.) , Asensetek Lab.
- **2. Calibration System includes**
  - Low pressure line lamp for wavelength calibration
  - Lighting Source System with NIST traceable driver(#0501132531 LPS-100)
  - Spectrophotometer for photometric calibration that traces NIST traceable calibration source (#07099996 IES1000)

The trust from all over the world company

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Major safety and wireless certifications approved

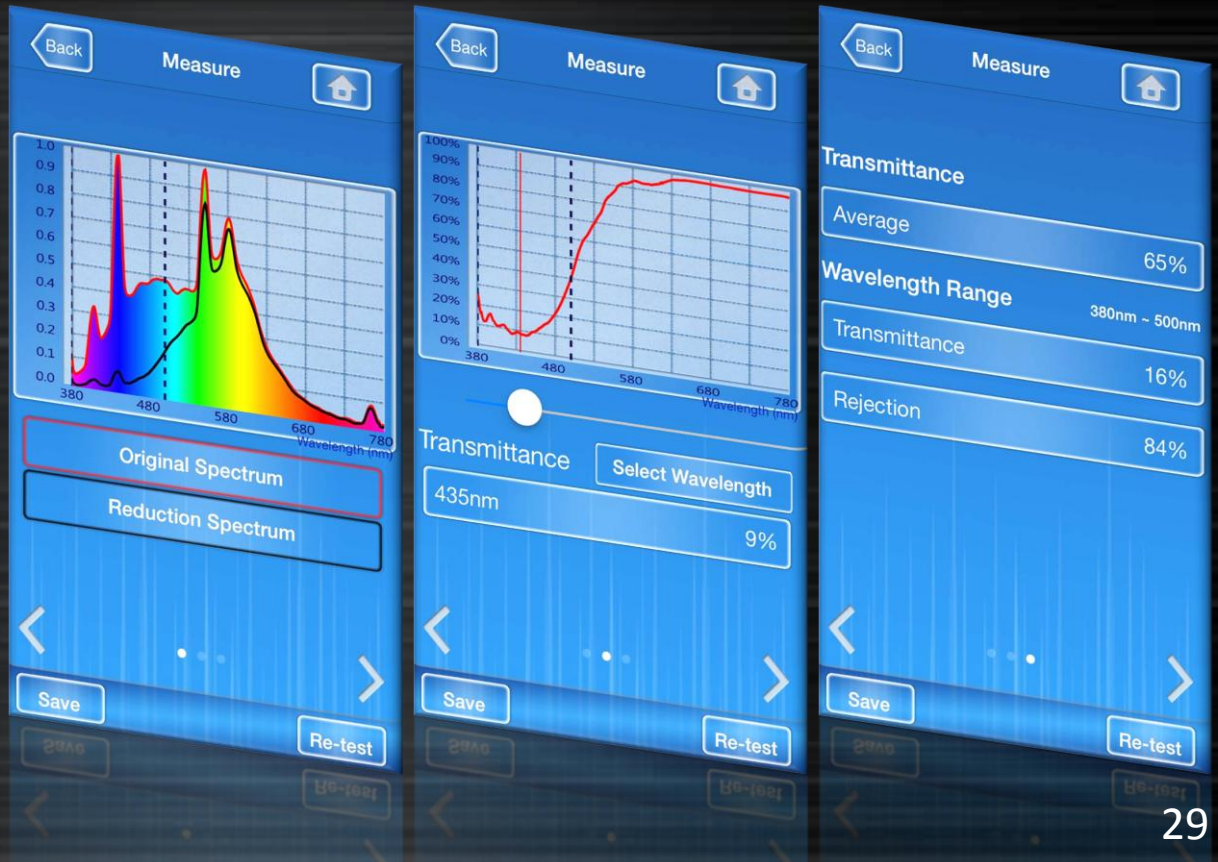
CE FC CB RoHS Compliant

SRRC

Other App for Lighting Passport.

Spectrum Genius

Transmittance



Spectrum Genius Transmittance

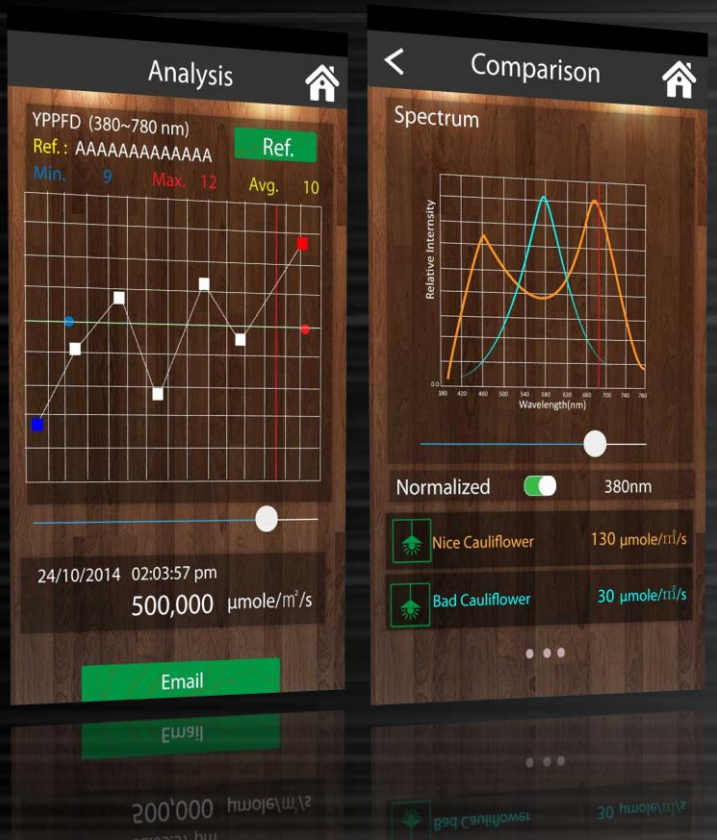
- Users can get the transmittance report of each wavelength, and users can also compare the transmittance of different objects.
- For lighting fixture design, suitable mask or lens with high efficiency and low blue hazard can be chosen.
- This App can be extensively used in Lens, Filter and Screen Protector.

Other App for Lighting Passport.

Spectrum Genius

Agricultural Lighting

Spectrum Genius Agricultural Lighting (SGAL)



Users can record daily growth conditions and analyze the data, Sales person can also measure and compare the light needed for plant.

This App can be extensively used in Plant Factory, Horticultural, Plant Growth Lights.

Users can switch the APP by their need

The future has more new APP…

Asensetek will also provide more hardware fittings

Q & A

ASENSETEK

THE BEST PARTNER
IN LIGHTING INDUSTRY