Spectrum Genius
Agricultural Lighting APP

The only tool you need.

Fractical and Convenient Functions

Diary   Single   Multiple   Comparison

APP Introduction

Spectrum Genius Agricultural Lighting (SGAL) is now available. SGAL is a professional application for evaluating, selecting, and monitoring grow lights to produce indoor plants with higher efficiency.

Use SGAL with your Lighting Passport spectrometer to record and share valuable data, make rational decisions, and track history. With our spectrometer, you will improve your growing efficiency and make your decisions on the reliable readings from our state-of-the-art invention-SGAL.

The BEST tool for grow light measurement.
Making your study easier and faster!

Smart Diary on Plant Growth

Use the unique "diary mode" function to record light source information and plant growth daily or weekly. Use this information to analyze and efficiently manage your horticultural business. Our spectrometer and software help you make smarter decisions from the reliable readings of our state-of-the-art invention-SGAL.

Quick Measurement & Data Analysis

You can either select "Single Mode" to take a swift measurement, or you can choose to run "Multiple Mode" on a series of light sources for comparison and analysis. "Comparison Mode" then allows you to distinguish the differences between two grow light sources. Also, you can see both the original spectrum and the weighted spectrum at one time. What's best is that we simply give you everything: PPFD, YPFD, Efficiency (%), R/ B, R/IR, DLI, CCT, Illuminance (lx), λp (nm) and etc..

SGAL Reference Generator & Import Reference Data

"SGAL Reference Generator" is a Macro Excel program. You can import your own plant growth PAR data to the reference library of SGAL APP via this tool.
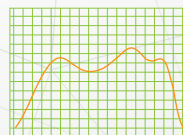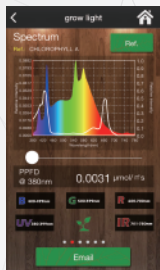
Built-in Reference Spectrum

SGAL provides a lot of built-in plant growth reference spectrum, such as Action Spectrum, DIN, Chlorophyll A/ B/ f, β-Carotene, Phytochrome, and the commonly used medicinal plant.

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Spectrum Genius
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Provide Spot-on Information

"Ref. Spectrum" helps users to understand the true spectral needs of various plants, analyzes if the light source is suitable, and further adjusts the light source accordingly.

"Weighted Spectrum" on the other hand, helps users to analyze / monitor the effectiveness of the light source at different wavelengths, to guarantees a more effective light source and a better environment for the health and growth of the plants.

Your One-for-all choice

Traditionally, it requires not only a PAR meter, but a lux meter, a spectrometer, DLI meter, one or two meters for R/ IR, R/ B just to get a complete data for developers to spend more time analyzing, comparing, determining the perfect grow light.
What a waste of time! With Lighting Passport all you need is one.

Available on the **App Store**

ANDROID APP ON **Google play**

✱ For iPad user, please search it in the iPhone App Store.

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⚙ APP Functions

Measurement Mode	Diary, Single, Multiple	
Measurement Capability	PPFD (400 nm ~ 700 nm)	Original Spectrum
	PPFD IR (701 nm ~ 780 nm)	PPFD Spectrum
	PPFD R (600 nm ~ 700 nm)	Weighted Spectrum
	PPFD G (500 nm ~ 599 nm)	Efficiency (%)
	PPFD B (400 nm ~ 499 nm)	R/ B
	PPFD UV (380 nm ~ 399 nm)	R/ IR
	YPFD (400 nm ~ 700 nm)	DLI
	YPFD (380 nm ~ 780 nm)	Illuminance (lux)
	YPFD IR (701 nm ~ 780 nm)	Peak Wavelength (λp)
	YPFD R (600 nm ~ 700 nm)	Dominant Wavelength (λD)
	YPFD G (500 nm ~ 599 nm)	CCT
	YPFD B (400 nm ~ 499 nm)	CRI (Ra)
	YPFD UV (380 nm ~ 399 nm)	CIE 1931/ CIE 1976
Key Features	Photograph, Note, Auto Connection, Data Comparison #Smart Pass, Absorption Spectrum Reference Import Reference Spectrum, Social Media Integration #In-APP Purchase	
Language	Traditional Chinese, Simplified Chinese, English, German	

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