Light Cube

ASENSETEK

Program Features

Software	Spectrum Genius Light Cube	
Tunable Items	CCT	TM-30 Rf
	Lux	TM-30 Rg
	Duv	PPFD IR
	CRI	PPFD R
	CQS	PPFD G
	TLCI Qa	PPFD UV
	Spectrum	
Key Features	Light Library Establishment	
	Data Storage	
	Data Import	

Spectrum Lux CRI TLCI CCT PPFD TM-30 Duv

Light Cube Accessories

Accessories Type
50 × 50 × 60 cm Light Cube Viewing Cabinet
Ceiling Installation Kit
Wireless Sender

※ ASENSETEK reserves the right to modify the specification of its products without prior notice.

Taipei Headquarter

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Extend your sense

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Master in Light and Color

Experience the NEW era of SMART lighting.

Light Cube is a powerful **Lighting Simulation System** which includes a "**Spectral Power Distribution Simulator—Light Cube,**" a "**SMART Spectrometer—Lighting Passport Pro,**" and a multi-functional software "**SMART Tunable Software—Spectrum Genius Light Cube.**" With the help of this powerful system, users get to control not only the color and lightness of the light source, but also intelligently customize the CCT, CRI, Duv, illuminance, Spectrum, PPFD, and TM-30 Rf/Rg by accurately entering the target values or easily dragging the control bars.

"Light Cube" is the perfect system for researches of all kinds, allowing users to save the money, cut down the maintenance, and increase the efficacy and chance of success in their studies.

"SMART Spectrometer—Lighting Passport Pro"

Lighting Passport in this SPD Simulation System, plays the core role of a sensing device that swiftly and precisely collects all measured parameters and further feeds the data back to Light Cube for processing and generating the best simulation results. More, environmental influence is also measured and compensated.
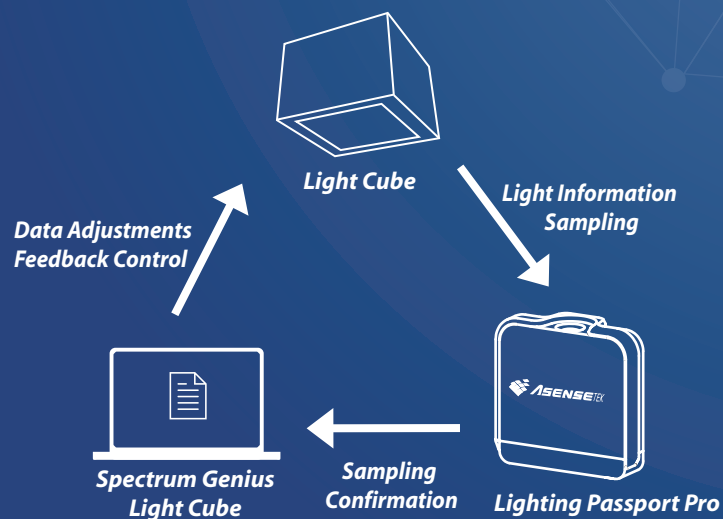
"Spectral Power Distribution Simulator—Light Cube"

Through accurate communication and control of "Spectrum Genius Light Cube" software, the system can effortlessly simulate the SPD of any light sources, including LED and other traditional lights. The spectral inputs can either come from direct data input into the software, or spectral parameters collected from the Lighting Passport Pro.

"SMART Tunable Software—Spectrum Genius Light Cube"

"Spectrum Genius Light Cube" is a state-of-the-art software that seamlessly connect the Lighting Passport with the Light Cube, enabling the users to conduct detailed control settings over CCT, CRI, TM-30, PPFD etc… and further manipulate their customized spectrums.

Application Range:

- **Dimmable Lighting Research**
- **Black-body Radiation Simulation**
- **Lighting Research**
- **Grow Light Research**
- **Human Centric Research**
- **Studio Lighting Research**

Light Cube

Light Information Sampling

Data Adjustments Feedback Control

Spectrum Genius Light Cube

Sampling Confirmation

Lighting Passport Pro

Light Cube Specifications

V1AEH31

Size & Net Weight	300 × 300 × 200 mm, 7 kg		
Wavelength Range	380 - 780 nm		
Tunable Channel	11		
Channel Resolution	10 bit (1024 steps dimmable for each channel)		
Lifetime	>10,000 hours		
* Smart Tuning Range	CCT：2,000 ~ 10,000K	TLCI(Qa)：60 ~ 100	
	CRI (Ra)：60 ~ 100	TM-30-Rf：50 ~ 100	
	Duv：-0.05 ~ +0.05	TM-30-Rg：60 ~ 140	
	CQS：60 ~ 100		
Max Flux and Illuminance	6,500K：1700 lm, 1 meter：850 lux		
	5,000K：2400 lm, 1 meter：1250 lux		
Short-term stability	6,500K<±10K, 5,000K<±5K		
	Illuminance <±0.5%		
Long-term stability	6,500K<±25K, 5,000K<±15K		
	Illuminance <±1.5%		
Electrical	110/ 230V, 50/ 60Hz, 150W Maximun		
Connection	USB Cable, Wireless Control (Option)		
Operating Temperature/ Humidity Range	0 ~ 35 ℃, relative humidity under 80 % with no condensation		
Storage Temperature/ Humidity Range	-10 ~ 45 ℃, relative humidity of 85 % or less (@ 35 ℃) with no condensation		
Scope of Delivery	Light Cube, Power Cord, USB Cable		

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* Smart Tuning Mode uses our own patented technology and algorithm to find out the optimal solution.