

# Lighting Passport Pro Product Matrix

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Accessory	Pro Essence	Pro Standard	Pro Flagship
Protective Bag	●	●	●
Stand	●	●	●
Clipper		●	●
iPod Touch			●
Tripod Adaptor	○	○	●
Pocket Bag	●	●	●

APP	Pro Essence	Pro Standard	Pro Flagship
Spectrum Genius Mobile		△	△
Spectrum Genius Essence	△		
Spectrum Genius Transmittance	○	△	△
Spectrum Genius Agricultural Lighting	○	△	△
Spectrum Genius Studio (iPad)	○	△	△
Spectrum Genius Studio	○	△	△

PC Software	Pro Essence	Pro Standard	Pro Flagship
Spectrum Genius Standard	○	●	●
Spectrum Genius Advanced	○	○	○

\* For more up-to-date information, please check the official website.

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# Lighting Passport Pro

## The World's First Handheld Smart Spectrometer



### Product Features

- Evolving Platform
- Precision Mode
- Flicker Measurement
- PC Control
- Environment Temperature and Relative Humidity Recording
- Enhanced Battery Duration



## Specifications

V1AEH31

Product Type	Pro Essence	Pro Standard	Pro Flagship
Size	Width : 68.5 mm Depth : 17 mm Height : 56 mm	Width : 68.5 mm Depth : 17 mm Height : 189 mm <i>(Includes iPod touch)</i>	
Net Weight	79 g ± 1 g		214 g ± 2 g
Wavelength Range	380 ~ 780 nm		
Illuminance Range	Measurable: 5 ~ 50,000 lux Reliable Chromaticity: 100 ~ 50,000 lux	Measurable: 5 ~ 50,000 lux Reliable Chromaticity: 50 ~ 50,000 lux	
Output Wavelength Pitch	1 nm		
Optical Resolution (FWHM)	10 nm	8 nm	
Repeatability (2σ)	* x, y : < 0.001	* x, y : < 0.0005	
Accuracy (@ 1,000 lux Standard Light Source)	x, y : ± 0.003 Illuminance : ± 5 % CCT : ± 3 %	x, y : ± 0.002 Illuminance : ± 3 % CCT : ± 2 %	
Flicker Measurement Capability	Range: 5 ~ 200 Hz Accuracy: ± 5 % (Up to 600 Hz @ over 30,000 lux)		
Integration Time	6 ms ~ 16 s		
Operating Temperature/ Humidity Range	0 ~ 35 °C, relative humidity under 80 % with no condensation		
Storage Temperature/ Humidity Range	-10 ~ 45 °C, relative humidity of 85 % or less (@ 35 °C) with no condensation		
APPS	SGE, SGT, SGAL, SGS, SGS (iPad)	SGM, SGT, SGAL, SGS, SGS (iPad)	

\* In Precision Mode (@ 1,000 lux Standard Light Source)

## Applicable Mobile Devices

### iOS devices:

iPhone 4S, iPhone 5/ 5C/ 5S/ 6/ 6+/ 6S/ 6S+, iPod touch 5, iPad mini/ mini2, the New iPad (iPad 3), iPad Air and later version.

### Android devices:

Support Android 4.4.2 and above version with BT4.0 (BLE, Bluetooth Low Energy) module, and now optimized for Samsung S4/ S5/ Note3, LG Nexus 5, LG G3/ G4, Sony Z1/ Z2 and later version.

## APP Functions

V1AEH31

APP Type	Spectrum Genius Essence (SGE)	Spectrum Genius Mobile (SGM)	
Applicable Model	Pro Essence	Pro Standard	Pro Flagship
Measurement Mode	Single, Multiple, Subtract Background	Single, Multiple, <b>Continuous</b> , Subtract Background	
Measurement Capability	CCT CIE 1931 CIE 1976 Spectrum C78.377-2008 IEC-SDCM CRI (Ra) R1 ~ R15 CQS TLCI (Qa) Gamut Area Index (GAI) Illuminance Foot Candle lp Flicker Index Flicker Percentage Flicker Frequency TM-30-15 # (Rf/ Rg/ Diagram)	CCT <b>Duv</b> CIE 1931 CIE 1976 Spectrum C78.377-2008 IEC-SDCM CRI (Ra) <b>CRI (Re)</b> R1 ~ R15 CQS TLCI (Qa) Gamut Area Index (GAI) Illuminance Foot Candle <b>PPFD</b> lp <b>AD</b>	<b>Purity</b> <b>SP ratio</b> Flicker Index Flicker Percentage Flicker Frequency <b>TM-30-15 (Rf/ Rg/ Diagram)</b>
Key Features	Automatically Record Temperature & Humidity Photograph Note Auto Connection Auto Dark Calibration Data Comparison GPS Orientation Smart Pass # Social Media Integration	Automatically Record Temperature & Humidity Photograph Note <b>Data Filter</b> Auto Connection Auto Dark Calibration Data Comparison <b>WiFi Transfer</b> GPS Orientation Smart Pass # Social Media Integration	
Language (* SGM / SGE)	Traditional Chinese, Simplified Chinese, English, Japanese, German, French, Russian, Italian, Turkish, Spanish		

\* ASENETEK reserves the right to modify the specification of its products without prior notice. Please check the official website for updates.

# In-APP Purchase