

SPECIFICATION

SpectraLED Light Booth

WeSpectra (Shanghai) Co., Ltd



WeSpectra

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Introduction

Based on our independent core algorithm, WeSpectra SpectraLED Light Booth is an innovative spectral tunable light source to simulate any lighting conditions. The spectral range is from visible to NIR, achieved by selected more than 20 LED channels. The CCT ranges from 2000 to 20000K. It supports multiple light sources connection to create large lighting room for color visual assessment and sensor test. API is available for integration.



Features & Benefits

- Accurately simulate the CCT ranging from 2000K to 20000K, including the blackbody locus, and daylight
- High quality daylight simulator, CIE Ra ~99, Metamerism index Grade A
- Reproduce any imported SPD. It is easy to communicate the light SPD between different locations. No need for multiple light booths for difference brands
- Provide directional light option for sparkle, texture and coarseness evaluation
- Capability to simulate the latest CIE Standard LED SPD, including LED-B1~B5
- Includes three commonly used Red, Green, Blue channels for automotive ambient lighting. It can accurately simulate the effects created by ambient lighting, which is used to evaluate the visual effects of interior object colors under different ambient lighting conditions as well as human emotional perception.
- Conforms to all major international standards, including ASTM D1729, ISO 3664 as well as DIN, AATCC and BSI standards
- Large intensity dynamic range, 12 bit/ 4000 step for each LED channel, flicker free
- Flicker mode 1-1000Hz with 1Hz step allows to simulate the flicker of the light source
- Instant stable, no warm-up time.
- Low light mode allows to simulate night condition
- Programmable light sequence and switch time
- Stable light output with the feedback features by software algorithm and external spectrometer. No need to regularly replace lamps, recalibrate the light source when the light quality degradation
- Internal switch touch screen allows to fast switch max up to 80 presets
- User-friendly software
- Long lifetime and excellent stability
- Multiple installation methods to fit different applications, including cabinet, stand, etc
- LED wavelength customization, ranging from UV, VIS to NIR
- API is available for integration in automation

Applications

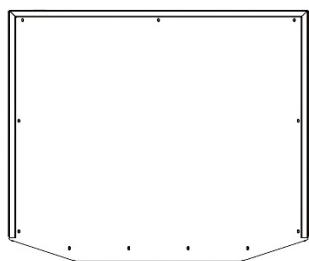
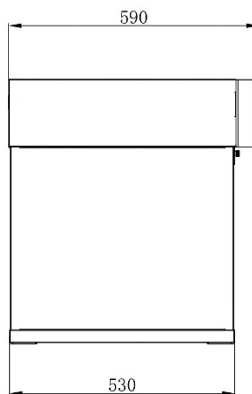
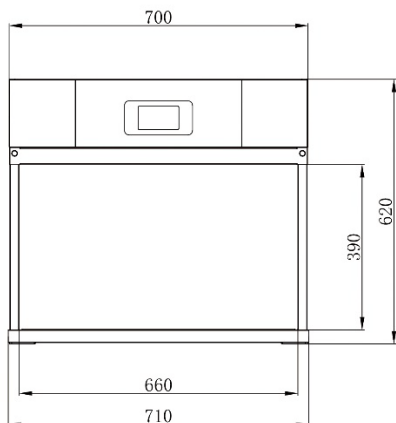
- Sensor calibration and image quality test
- Color visual evaluation for surface color
- Light and color research

Specifications

	SpectraLED	SpectraLED Pro
LED Channels	15	22
Spectral Range	360-700nm	360-780nm
Drive Mode	12bit, 4000 steps dimmable for each LED channel, AM driven, Flicker free	12bit, 4000 steps dimmable for each LED channel, AM driven, Flicker free
Warm Up	Instant stable	Instant stable
Lifetime	≥8000 hours	≥10000 hours
Capacity	8 presets	80 presets with editable name, unlimited light source in software
Preset	LED D65, D65+UV LED-B1(2700K), LED-B2(3000K), LED-B3(4100K), UV, A Directional D65	LED D65, D65+UV, CIE Ra~99, MI A LED-B1(2700K), LED-B2(3000K), LED-B3(4100K) UV, A, Directional D65 Customization available
CCT Range	-	2000~20000K, accuracy ±1%
Flicker Mode	-	1-1000Hz, with 1Hz steps
Max Lux Level	≥2000lux for D illuminants	≥2000lux for D illuminants Low lux mode: 0.1-50lx tunable
Uniformity	80%	80%
Compatibility	-	Konica Minolta CL500A, JETI Specbos 2501&2501uv
Electrical	110-240V, Max 180W	110-240V, Max 500W
Work Temperature	0-40°C	0-40°C
Control	Touch Screen	USB cable, Touch Screen
Product Dimension	710×620×590 mm	990×930×680 mm
Viewing Area	660×390×530 mm	890×585×620 mm
Weights	40kg	70 kg
Interior Color	Munsell N7	Munsell N7
Scope of Delivery	Luminaire, cabinet, power cable	Luminaire, cabinet, power cable, USB cable, software & dongle, SDK is available

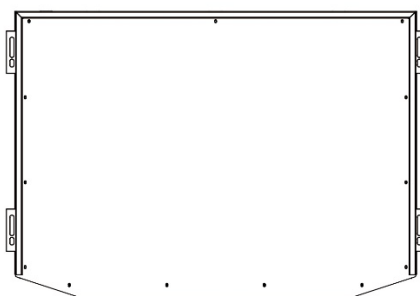
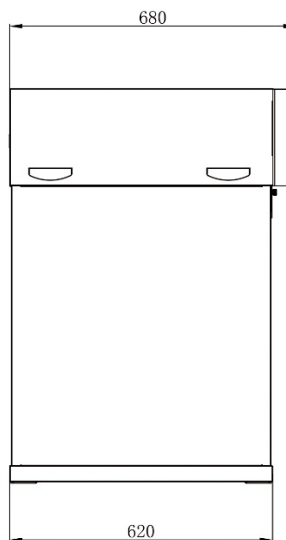
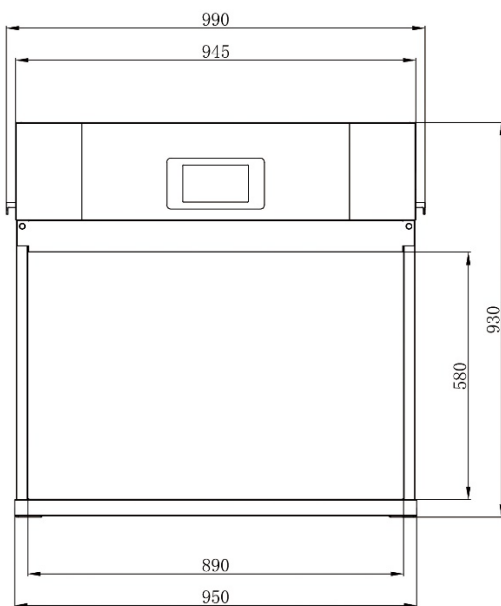
Dimensions

Unit: mm



▲ SpectraLED

Unit: mm



▲ SpectraLED Pro

SpectraLED Pro LED Channel SPD

