THOUSLITE

About Us

Thousand Lights Lighting (Changzhou) Limited (THOUSLITE) is a high-tech enterprise focusing on multi-channel LED lighting technology and light quality management. THOUSLITE produces a variety of LED-based standard lighting environments and is active in international technical conferences and standardization societies.THOUSLITE's full range of multi-channel LED lighting products are used for lighting research, industrial color assessment, total appearance communication, and camera & sensor testing. THOUSLITE also provides customized products and services for your lighting needs. Our 36-hour fast response policy provides you with superior service. Based on our extensive technical experience.THOUSLITE is committed to provide you with excellent products, advanced solutions, and professional service.

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LEDView Lighting Cabinet

What You See Is What You Measure

◆ High quality daylight simulator
◆ Blackbody locus simulator
◆ Dynamic lighting & high intensity range
◆ Flicker free & high uniform
◆ Longer life time & excellent stability
◆ Conforms to international standards
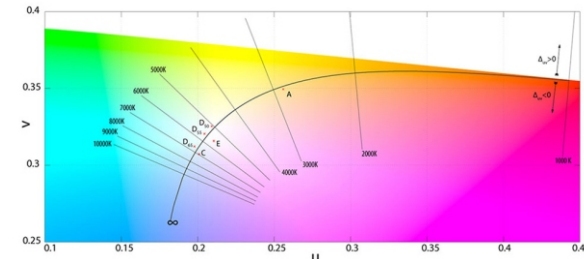
LEDView Lighting Cabinet

THOUSLITE LEDView products are epoch-making lighting cabinets based on the multi-channel LED technology. It is specially developed for color and imaging industry, including textile, coating, plastics, printing, graphic arts, imaging etc. LEDView gives consistent viewing conditions for color assessment, quality control, sensor evaluation, etc. By using a set of high-power LEDs and our proprietary LEDNavigator-LV software, it can achieve the match to any desired SPD (Spectral Power Distribution), including daylight illuminant with best lighting quality. It guarantees "what you see is what you measure". LEDView products have five models, including LEDView-Portable (14 channels, general visual assessment), LEDView-STD(14channels,surface color assessment), LEDView-C15 (15 channels, color and lighting research), LEDView-I14 (14 channels, camera evaluation & sensor calibration), and LEDView-H11 (11 channels, high intensity).

Accurately reproduce any measured or imported SPD

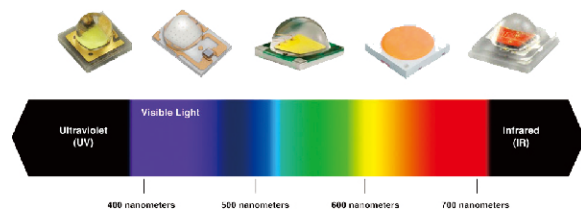D50   D65   D75   A

LED CW   LED WW   UV   CWF   TL84

● **Reproducing high quality daylight illuminant** To reproduce any phase of daylight with highest quality on the market in terms of Color Rendering Index (CRI) 99 and Metamerism Index (MI) Grade A.

● **Longer life time and excellent long term stability** Much longer lifetime compared to fluorescent technology, and optimized heat management guarantees excellent long term stability.

● **Conforms to international standards**
Conforms to all major international standards, including ASTM D1729, ISO 3664 as well as DIN, AATCC and BSI standards.

● **Single-channel control**
Arbitrarily control the intensity of each channel in LEDView to design any light wanted

● **SDynamic lighting**
Programmable illuminant light sequence and interval.

● **LED wavelength selection service**
Provide LED channel wavelength selection service from UV, VIS to NIR

● **Same light intensity for all LED simulated sources** All LED simulated illuminants sources can have the same light intensity, or customer speciÞed.

● **Flicker free and high uniformity**
It provides a uniform and flicker free lighting environment.

● **80 LED simulated sources, 2 fluorescent lamps**
LEDView hardware can save up to 80 LED sources, which can be switched via touch screen controller, and LEDNavigator software can reprogram the LED sources in hardware.

● **High intensity range**
All LEDView models can achieve max >2500lux on the bottom plate, and LEDView-H11 can achieve max >12000lux on the bottom plate.

● **Blackbody locus simulator**
To accurately reproduce a range of sources from tungsten and daylight, with customized CIE Ra and Duv.

● **Fast & accurate feedback**
Maintain the same light quality, compensating for age and variable environments with external micro spectrometer.

Specifications

	LEDView - Portable V2	LEDView - STD	LEDView - C15	LEDView - I14	LEDView - H11
Diginal driving channels	20	20	24	24	20
LED channels*1	14 channels	14 channels	15 channels	14 channels	11 channels
Spectral range	350-730nm	380~730 nm	350~700 nm	380~730 nm	400-700nm
LED channel drive method	Amplitude Modulation, AM / Pulse-width modulation, PWM / AP*2				
Resolution*3	10 bit (1024 steps dimmable for each channel)				
Warm up time	No				
Capacity	80 light sources	80 light source in LEDView hardware and can be switched via touch screen switch panel , unlimited in software	80 light source in LEDView hardware and can be switched via touch screen switch panel , unlimited in software	80 light source in LEDView hardware and can be switched via touch screen switch panel , unlimited in software	80 light source in LEDView hardware and can be switched via touch screen switch panel , unlimited in software
Predefined illuminants*4	Daylight Options: CIE D50, CIE Ra > 98 MIvis: A (<0.25) CIE D55, CIE Ra> 98 MIvis: A (<0.25) CIE D65, CIE Ra > 98 MIvis: A (<0.25) CIE D75, CIE Ra > 98 MIvis: A (<0.25) Others: A, CIE Ra>97 UV or customer specify Sources stored in the hardware can be reprogrammed or calibrated by Thouslite	Daylight Options (exclude UV): CIE D50, CIE Ra > 98 MIvis: A (<0.25) CIE D55, CIE Ra> 98 MIvis: A (<0.25) CIE D65, CIE Ra > 98 MIvis: A (<0.25) CIE D75, CIE Ra > 98 MIvis: A (<0.25) Others: A, CIE Ra>97 or customer specify Sources stored in the hardware can be reprogrammed or calibrated by Thouslite	Daylight Options: CIE D50, CIE Ra > 98 MIvis: A (<0.25) CIE D55, CIE Ra> 98 MIvis: A (<0.25) CIE D65, CIE Ra > 98 MIvis: A (<0.25) CIE D75, CIE Ra > 98 MIvis: A (<0.25) Others: A, CIE Ra>97 UV or customer specify Sources stored in the hardware can be reprogrammed by software LEDNavigator-LV	Daylight Options (exclude UV): CIE D50, CIE Ra > 98 MIvis: A (<0.25) CIE D55, CIE Ra> 98 MIvis: A (<0.25) CIE D65, CIE Ra > 98 MIvis: A (<0.25) CIE D75, CIE Ra > 98 MIvis: A (<0.25) Others: A, CIE Ra>97 or customer specify Sources stored in the hardware can be reprogrammed by software LEDNavigator-LV	Daylight Options (exclude UV): CIE D50, CIE Ra > 98 MIvis: A (<0.25) CIE D55, CIE Ra> 98 MIvis: A (<0.25) CIE D65, CIE Ra > 98 MIvis: A (<0.25) CIE D75, CIE Ra > 98 MIvis: A (<0.25) Others: customer specify Sources stored in the hardware can be reprogrammed by software LEDNavigator-LV
Tunable range	-	CCT: 2000~20000K (Duv tolerance < ±0.003)			
Max illuminance	Default: 1500 lux or customized	Default: 1500 lux or customized	Default: 1500 lux Further adjust via software. Max up to 2500lux, depending on the illuminant		Illuminance adjustable via software. Max up to 12000lux for D50-D65
Short-term stability*5	ΔCCT < ±20K; ΔIlluminance < ±1%				
Long-term stability*6	ΔCCT < ±50K; ΔIlluminance< ±2%				
Fluorescent light (optional)	-	CWF (Default) TL84 (Default) TL83			-
Fluorescent light tunable	-	Yes			-
Software instrument compatibility	-	-	Konica Minolta CL500A & CS-2000, THOUSLITE FS & FS-VIS-IR Spectrometer Jeti Specbos 1211UV spectroradiometer		
Uniformity*7	80%	85%			
Interior color	Munsell N5 Munsell N7 (Default)				
Electrical	100-240V 50/60Hz 54W (max)	100-240V 50/60Hz, 300W (max)			100-240V 50/60Hz, 360W (max)
Connection	Button switch panel	Touch screen switch panel	Touch screen switch panel, intensity dimmer for Ruorescent, USB cable		Touch screen switch panel, USB cable
External dimensions (L/W/H)	470×410×450 mm	705×580×654 mm	1020×740×860 mm		520×520×850 mm
Viewing area (L/W/H)	465×300×310 mm	655×537×390 mm	970×700×585 mm		500×500×600 mm
Weight	10.5 Kg	36 Kg	60 Kg		40 Kg
Scope of delivery	Light source, diffuser, power cord, power adapter, SOP, accessories	Overhead luminarie, viewing cabinet, diffuser, power cord, power adapter, SOP, accessories	Overhead luminarie, viewing cabinet, diffuser, power cord, USB cable, software LEDNavigator-LV with dongle (optional), THOUSLITE FS spectrometer (optional) , USB storage(SOP, SDK*8 available on request), accessories		
Software	-	-	Modules in software LEDNavigator-LV: 1. Blackbody locus simulator 2. SPD Match 3. Single channel control 4. Dynamic lighting 5. Fast & accurate feedback*9		

*1: The number of LED kinds
*2: AP is the hybrid driving of AM and PWM. The frequency of PWM is from 0.1 Hz to 1000 Hz.
*3: Actually 1000 steps can be used because some steps for low luminance calibration.
*4: Light quality is measured with >20% power
*5: When set light source as D50 without warm up time under enviroment temperature 25°, short-term stability is measured during 24 hours and compared to average value.
*6: When set light source as D50 after 30 minutes warm up time under enviroment temperature 25°, long-term stability is measured during 90 days and compared to average value.
*7: Uniformity is measured when illuminance of light source is 1500 lx.
*8: Users can utilize the SDK to realized the functions of Dynamic lighting, Single channel control, Single LEDCube control.
*9: Users need to have the compatible instrument for measurements