THOUSLITE

Thousand Lights Lighting (Changzhou) Limited or THOUSLITE is a high-tech enterprise, focusing on multi-channel LED lighting technology and light quality management. THOUSLITE is a global LED-based standard lighting environment provider, and we are active in international technical conference and standardization societies.

THOUSLITE offers full range of multi-channel LED lighting products for lighting research, industrial color viewing assessment, and camera & sensor test. We also provide customerization services. "36 hours fast response" is the policy we make to better serve customers.

Based on our tremendous technical experience, THOUSLITE are committed to provide customer excellent products, advanced solutions and professional service.

LEDView LIGHTING CABINET
-What You See is What You Measure

- Best daylight simulator
- Source & light intensity customization
- No flicking & high uniform
- Longer life time & excellent stability
- Conforms to international standards
- 36 hours customer response

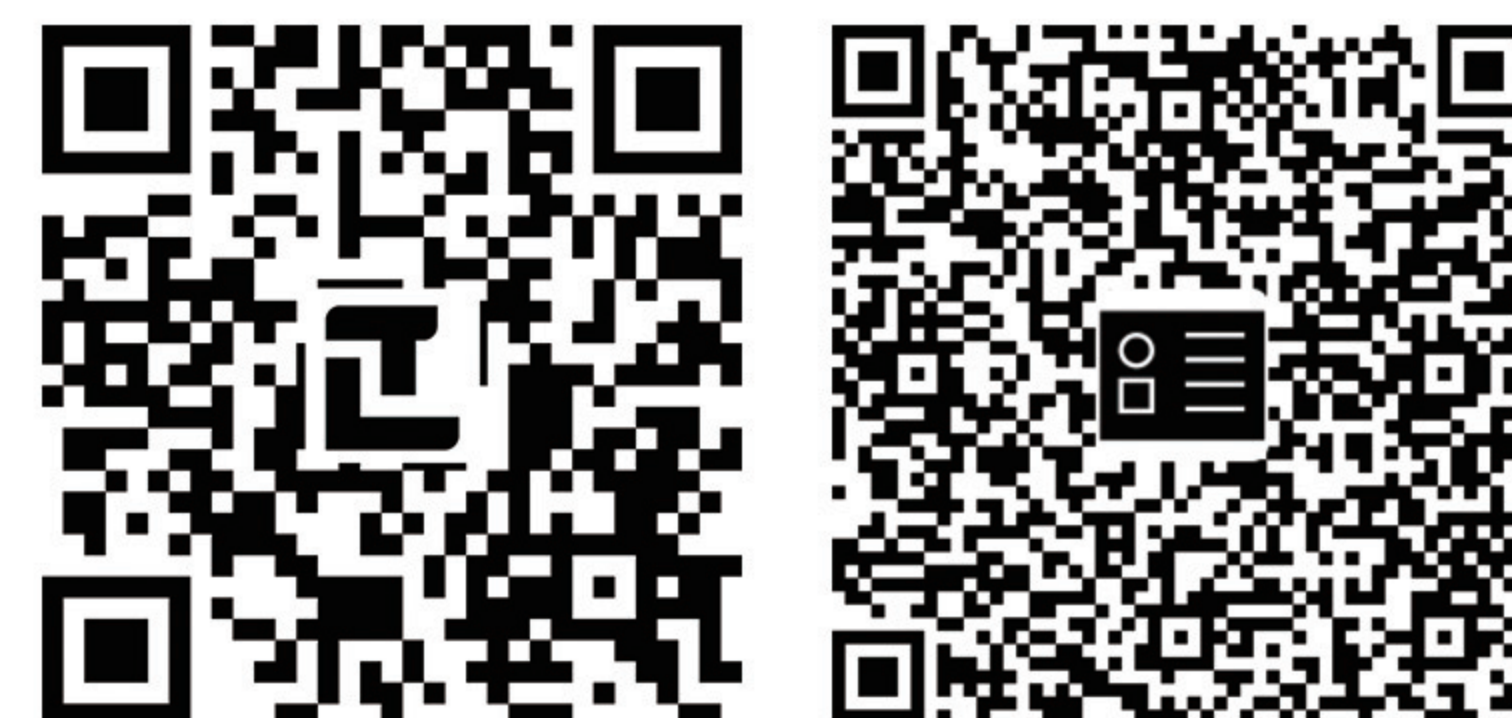## Thousand lights lighting (Changzhou) Limited

Location: Room 410, Building 3, No. 18 Huashan Road, Xinbei District, Changzhou City, Jiangsu Province, China, 213022
Phone: +86 0519-85289860
Fax: +86 0519-85289870
Email: binyu.wang@thouslite.com
Web: www.thouslite.com

LED-based Standard Lighting Environment Provider   www.thouslite.com
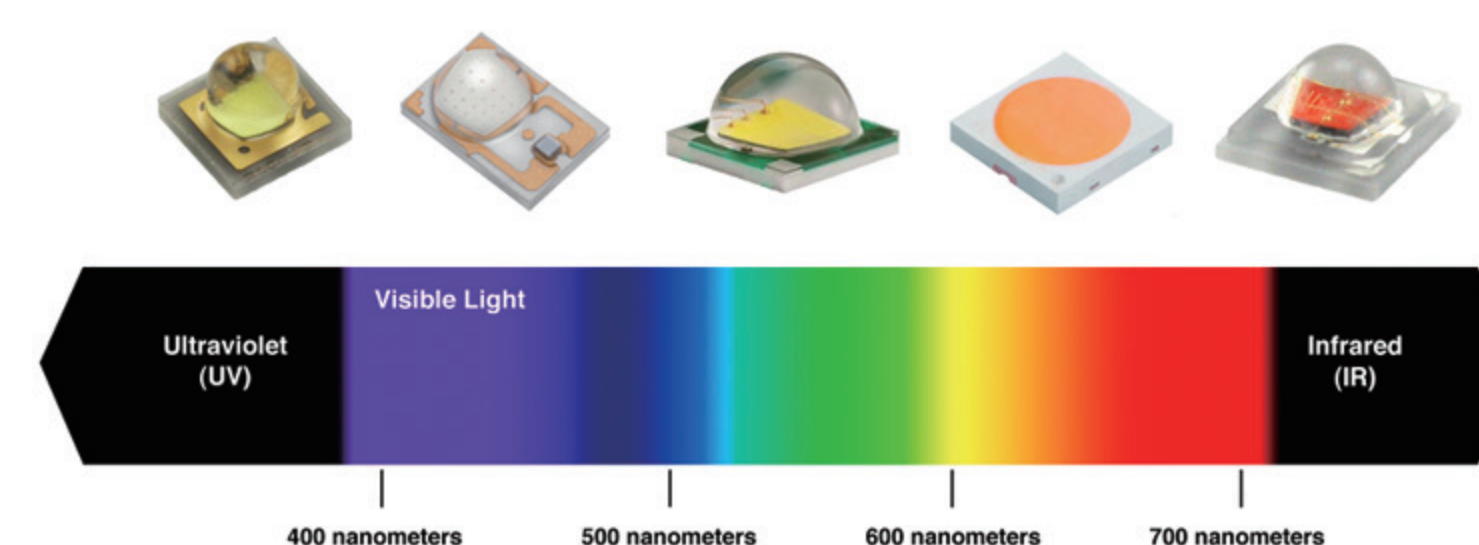
What is LEDView?

THOUSLITE LEDView products are epoch-making lighting cabinets based on the multi-channel LED technology. It is a specially developed lighting cabinet for **general color industry**, including textile, coating, plastics, printing, graphic arts, imaging etc. LEDView gives consistent viewing conditions for color assessment, color quality control, sensor evaluation, etc. By using a set of high power LEDs and our proprietary LEDNavigator-LV software, it can achieves the match to any desired SPD (Spectral Power Distribution), including daylight illuminant with best lighting quality than all cabinets on the market. It guarantees "**what you see is what you measure**". LEDView products have three models, including LEDView-Standard, LEDView-Professional, and LEDView-Ultimate, and LEDView-Ultimate provides much more flexibility to allow users to design and reproduce any light wanted.

D50   D65   D75   A

LED CW   LED WW   UV   CWF   TL84

LEDView Features

- **Reproducing high quality daylight illuminant**
  To reproduce any phase of daylight with highest quality on the market in terms of Color Rendering Index[1] (CRI) 99 and Metamerism Index[2] (MI) Grade A

- **7 LED simulated sources, 2 fluorescent lamps**
  Provides 7 predetermined LED sources simulated by multi-channel LEDs, and offer additional 2 fluorescent lamp options. Software LEDNavigator-LV can reprogram the predetermined LED sources, and store unlimited source

- **The multi level UV amount for OBA observation**
  Three calibrated levels of UV amounts in LEDView-Professional for accurate OBA observation; 3 UV LEDs (peak wavelength 365nm, 385nm and 405nm) with adjustable intensity in LEDView-Ultimate for research of white perception

- **Same light intensity for all LED simulated sources**
  7 predetermined LED simulated illuminants sources have the same light intensity, or customer specifiedy

- **No flicking and high uniform**
  It provides a uniform and flicker free lighting environment

- **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[3], ISO 3664[4] as well as DIN, AATCC and BSI[5] standards

- **36 hours customer response**
  If any product problems repoted in working day, we will response in 36 hours for both domestic and international customers

- **Blackbody locus simulator (LEDView-Ultimate only)**
  To accurately reproduce a range of sources from tungsten and daylight

- **SPD Match (LEDView-Ultimate only)**
  To accurately reproduce any measured or imported SPD to record or reproduce any light you want. It is easy to spread SPD files between different locations for light communication

- **Single-channel control (LEDView-Ultimate only)**
  Arbitrarily control the intensity of each channel in LEDView to design any light wanted

- **Dynamic lighting (LEDView-Ultimate only)**
  Programmable illuminant light sequence and interval

- **Fast & accurate feedback (LEDView-Ultimate only)**
  Maintain the same light quality, compensating for age and variable environments with external microspectrometer

- **LED wavelength selection service (LEDView-Ultimate only)**
  Provide LED channel wavelength selection service from UV, VIS to NIR

Ultraviolet (UV)   Visible Light   Infrared (IR)

400 nanometers   500 nanometers   600 nanometers   700 nanometers

1. CIE 13.3-1995, Method of Measuring and Specifying Colour Rendering Properties of Light Sources
2. ISO 23603-2005 / CIE S 012/E, Standard method of assessing the spectral quality of daylight simulators for visual appraisal and measurement of colour
3. ASTM D1729-2003, Standard Practice for Visual Appraisal of Colors and Color Differences of Diffusely-Illuminated Opaque Materials.
4. ISO 3664-2009, Viewing conditions-Graphic technology and photography
5. SDC Best Practice Guide-2011, Viewing Cabinets for the Visual Assessment of Surface Colour.

Specifications

	LEDView-Standard	LEDView-Professional	LEDView-Ultimate
LED channels	12, AM driven	14, AM driven	14, AM driven
Spectral range	380~700 nm	350~700 nm	350~700 nm
Resolution	-	-	10 bit (1024 steps dimmable for each channel)
Warm up time	No	No	No
LED lifetime	>8,000 hours	>10,000 hours	>12,000 hours
LED simulated source amount	5 sources from LED simulated source options	7 sources from LED simulated source options	7
LED simulated source options	Daylight Options (exclude UV): D50, CIE Ra 98 MIvis: B D65, CIE Ra 98 MIvis: B (Default) D75, CIE Ra 98 MIvis: B Others: Illuminant A: CIE Ra>97 (Default) UltraViolet (Default) LED Warm White (Default) LED Cool White (Default) LED CWF LED TL84 LED U30 LED U35 or customer specify	Daylight Options (exclude UV): D50, CIE Ra 99 MIvis: A (Default) D65, CIE Ra 99 MIvis: A (Default) D75, CIE Ra 99 MIvis: A (Default) Others: Illuminant A: CIE Ra>97 (Default) UltraViolet (Default) LED Warm White (Default) LED Cool White (Default) LED CWF LED TL84 LED U30 LED U35 or customer specify	D50, CIE Ra 99 MI: AB D65, CIE Ra 99 MI: AC D75, CIE Ra 99 MI: AC Illuminant A: CIE Ra>97 UltraViolet LED Warm White LED Cool White 7 simulated sources stored in the hardware can be reprogrammed by software LEDNavigator-LV; unlimited illuminant source can be stored in the software
LED simulated source CCT range and accuracy	±100K	±100K	CCT: 2000~20000K CIE Ra: 0~100 Duv: -0.02~+0.02
LED simulated source illumination level	Default: 1500 lux or customer specify	High (Default): 1500 lux Middle (Default): 1000lux Low (Default): 500lux or customer specify	Default: 1500 lux Further adjust via software. Max up to 2500lux, depending on the illuminant
LED simulated source stability	±1.5%	±1.5%	±1.5%
Two options for fluorescent tubes	CWF (Default) TL84(Default) TL83 U30 U35	CWF (Default) TL84(Default) TL83 U30 U35	CWF (Default) TL84(Default) TL83 U30 U35
Software instrument compatibility	-	-	X-Rite i1 Pro 2 Konica Minolta CL500A THOUSLITE FS spectrometer
Uniformity	85%	85%	85%
Interior color	Munsell N5 Munsell N7 (Default)	Munsell N5 Munsell N7 (Default)	Munsell N5 Munsell N7 (Default)
Electrical	230V/110V 50/60Hz, 150W Max	230V/110V 50/60Hz, 300W Max	230V/110V 50/60Hz, 300W Max
Connection	Switch Panel	Switch Panel	Switch Panel & USB cable
External dimensions(L/W/H)	700×580×660 mm	1020×740×860 mm	1020×740×860 mm
Viewing area(L/W/H)	650×540×470 mm	970×700×670 mm	970×700×670 mm
Weight	36 Kg	60 Kg	60 Kg
Scope of delivery	Overhead luminarie, viewing cabinet, diffuser, power cord	Overhead luminarie, viewing cabinet, diffuser, power cord	Overhead luminarie, viewing cabinet, diffuser, power cord, USB cable, software LEDNavigator-LV with dongle, THOUSLITE FS spectrometer , Neutral density filter (optional), SDK available on request
Software	-	-	Modules in software LEDNavigator-LV: 1. Blackbody locus simulator 2. SPD Match 3. Single channel control 4. Dynamic lighting 5. Fast & accurate feedback