

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 customization 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.

Thousand lights lighting (Changzhou) Limited (Sino - British Joint Venture)

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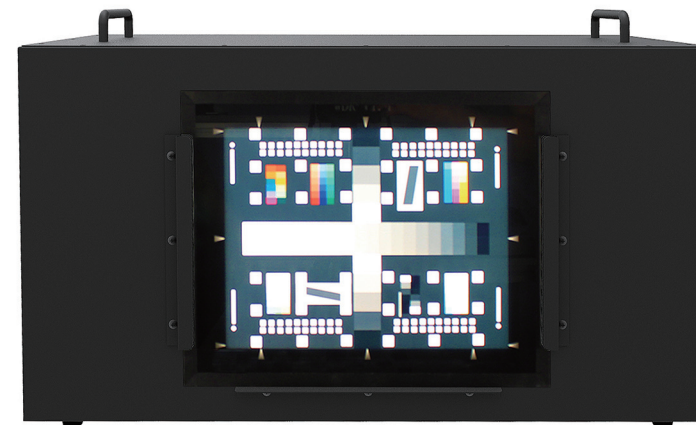
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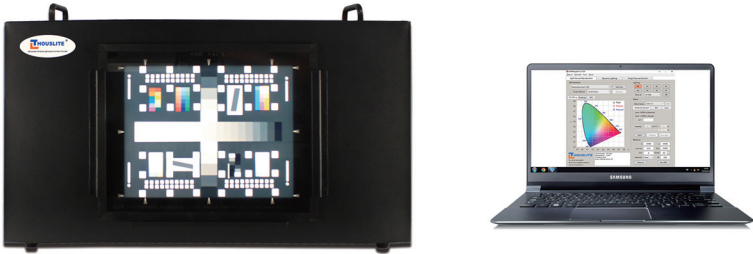
LEDTrans UNIFORM LIGHTING BOX



- High quality daylight simulator
- Blackbody locus simulator
- Up to 18000lux light output and adjustable
- Fast & accurate feedback
- No flicking & high uniform
- Longer life time & excellent stability
- 36 hours customer response

What is LEDTrans?

THOUSLITE LEDTrans is innovative **transparent uniform lighting box** based on the multi-channel LED technology, and it is a specially developed for **test chart illumination** and **camera calibration**. By using a set of carefully selected high power LED and our proprietary LEDNavigator-LT software, it can achieves the match to any desired SPD (Spectral Power Distribution) of light source just in one device, especially for standard daylight illuminant with highest light quality on the market. High power LEDs can easily achieve up to **18000lux** of simulated source on the illumination surface. Excellent optical design guarantees **>96%** high uniform of illumination surface (280×210mm). Optimized heat management and feedback function ensure high stable light output, compensating light quality fluctuation for LED ages and variable environment. SDKs in different language are also available for customer to integrate to its own operating software.



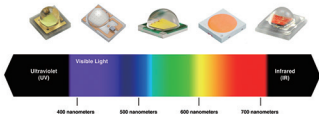
LEDTrans Features

- **Reproducing high quality daylight illuminant**
To reproduce any phase of daylight with highest quality on the market in terms of Color Rendering Index¹ (CRI) 99 and Metamerism Index² (MI) Grade A



- **Blackbody locus simulator**
To accurately produce a range of sources from tu ngsten and daylight 2000K-20000K with user-defined CIE Ra and Duv
- **SPD Match**
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
- **High light intensity and luminance adjustable**
To achieve up to 18000lux of most simulated source, and the light is dimmable while keeping the same light quality
- **No warm up time**
Stable light quality when the source is switched on
- **Single channel control**
Arbitrarily control the intensity of each LED channel to design any light you want
- **Dynamic lighting**
Programmable illuminant light sequence and interval

- **User-friendly software**
Provide an easy and user-friendly software LEDNavigator-LT, and can be further customized
- **Fast & accurate feedback**
Maintain the same light quality, compensating for age and variable environments with compact microspectrometer and LEDNavigator-LT software. It is much more consistent over fluorescent, and dramatically enhances the stability and lifetime of LEDTrans
- **No flicking and high uniformity**
It provides a >96% uniform and absolutely flicker free light output
- **Longer life time and excellent long term stability**
Much longer lifetime compared to fluorescent technology, and optimized heat management resulting in excellent long term stability
- **LED wavelength selection service**
Provide LED channel wavelength selection service from UV, VIS to NIR



- **36 hours customer response**
If customers report any problems or issues related to the products in working day, we will response in 36 hours for both domestic and international customers

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



Specifications

LED channels	Multi channels (colors + whites), AM driven
Spectral range	400-700 nm
Resolution	10 bit (1024 steps dimmable for each channel)
Warm up time	No
Lifetime	>10,000 hours
Predefined illuminants	D75, D65, D50, A CIE Ra 99, Mlvis: Grade A (<0.25)
Tunable range	CCT: 2000~20000K CIE Ra:0~100 Duv: -0.02~+0.02
Illumination level	Max. up to 18000lux, min down to 180lux, depending on illuminant, can be combined with a neutral density filter
Uniformity	Illumination surface (D280, 280×210mm), >96%
Short-term stability	D65 <±10K, D50<±5K; illuminance <±0.5%
Long-term stability	D65 <±25K, D50<±15K; illuminance <±1.5%
Software instrument compatibility	X-Rite i1 Pro 2, Konica Minolta CL500A, THOUSLITE FS spectrometer
Electrical	230V/110V 50/60Hz, 150W Maximum
Operating ambient temperature	0-30 °C
Connection	USB cable
External dimensions(W/D/H)	690×325×400 mm
Weight	24 kg
Scope of delivery	LEDTrans lighting box, diffuser, power cord, USB cable, software LEDNavigator-LT with dongle, THOUSLITE FS spectrometer, Neutral density filter (optional), remote controller(optional), SDK available on request
Software	Modules in software LEDNavigator-LT: 1. Blackbody locus simulator 2. SPD Match 3. Single channel control 4. Dynamic lighting 5. Fast & accurate feedback