

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.

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

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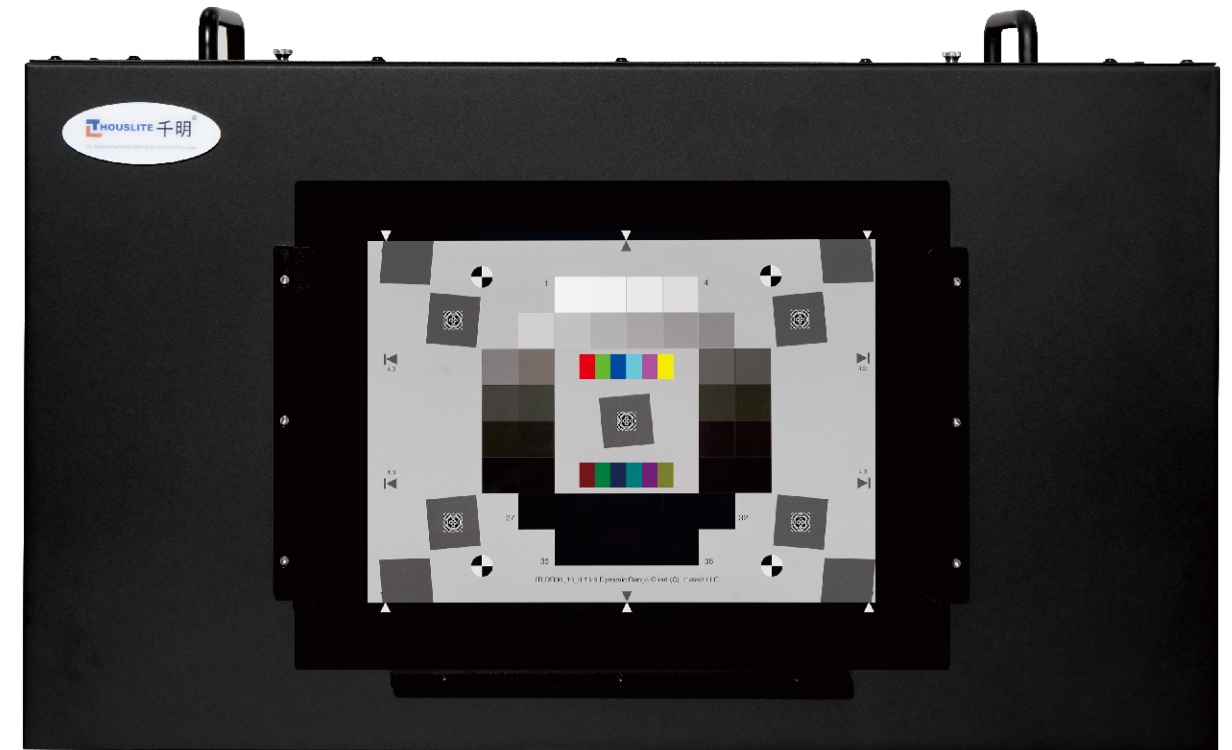
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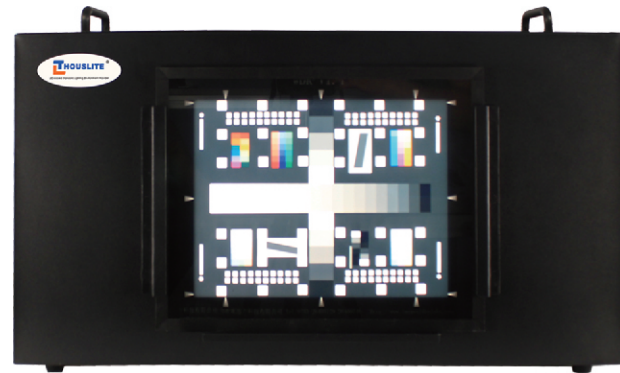
LEDTrans - Uniform Lighting Box



- ◆ High-Quality Daylight Simulator
- ◆ Blackbody Locus Simulator
- ◆ Adjustable Light Output of up to 18,000 lux
- ◆ Fast and Accurate Feedback
- ◆ Flicker-Free with High Uniformity
- ◆ Extended Lifespan and Outstanding Stability
- ◆ 36-Hour Customer Response Time

LEDTrans Uniform Lighting Box

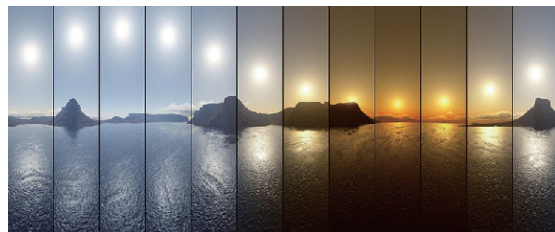
THOUSLITE LEDTrans, an **innovative transparent lighting box**, utilizes advanced multi-channel LED technology and our exclusive LEDNavigator-LT software for **precise test chart illumination** and **camera calibration**. With carefully chosen high-power LEDs, it achieves precise Spectral Power Distribution (SPD) matching, excelling in standard daylight illuminants. Capable of delivering **18,000lux** on the illumination surface with over **96%** uniformity (280x210mm), its exceptional optical design ensures reliability. The optimized heat management system, along with a feedback function, guarantees stable light output, compensating for LED aging and environmental changes. Software Development Kits (SDKs) in various languages offer seamless integration, making THOUSLITE LEDTrans the top choice for unparalleled precision in test chart illumination and camera calibration.



Key Features

• High-Quality Daylight Reproduction

Effortlessly replicate any phase of daylight with the highest market quality in terms of a Color Rendering Index1 (CRI) of 99 and Metamerism Index (MI2) Grade A.



• Blackbody Locus Simulator

Accurately generate sources ranging from tungsten to daylight (2000K-20000K) with user-defined CIE Ra and Duv.

• SPD Matching

Precisely reproduce any measured or imported Spectral Power Distribution (SPD), facilitating seamless SPD file exchange for effective light communication.

• Adjustable High Light Intensity and Luminance

Achieve up to 18000lux from simulated sources with dimmable light while maintaining consistent quality.

• Instant On

Ensure stable light quality the moment the source is switched on.

• Single Channel Control

Have full control over the intensity of each LED channel for designing custom lights.

• Dynamic Lighting

Programmable illuminant light sequences and intervals.

• User-Friendly Software

Offering an easily customizable LEDNavigator-LT software for user convenience.

• Fast & Accurate Feedback

Maintain consistent light quality, compensating for aging and variable environments through a compact microspectrometer and LEDNavigator-LT software. It surpasses fluorescent alternatives, significantly enhancing stability and LEDTrans' lifetime.

• Flicker-Free and High Uniformity

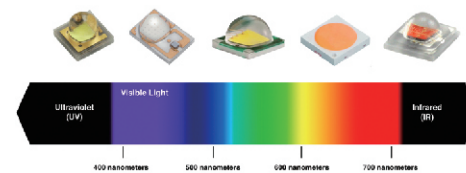
Provide a flicker-free light output with over 96% uniformity.

• Extended Lifetime and Excellent Stability

Boasting a significantly longer lifespan than fluorescent technology and optimized heat management for outstanding long-term stability.

• LED Wavelength Selection Service

Offer a service for selecting LED channel wavelengths from UV, VIS to NIR.



• 36-Hour Customer Response

Ensuring a swift response within 36 hours for both domestic and international customers reporting product-related issues during working days.

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 Tunable range	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 (D280,280x210mm), >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	100-240V 50/60Hz 150W Max
Operating ambient temperature	0-30°C
Connection	USB cable
External dimensions (W/D/H)	690x325x400 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