

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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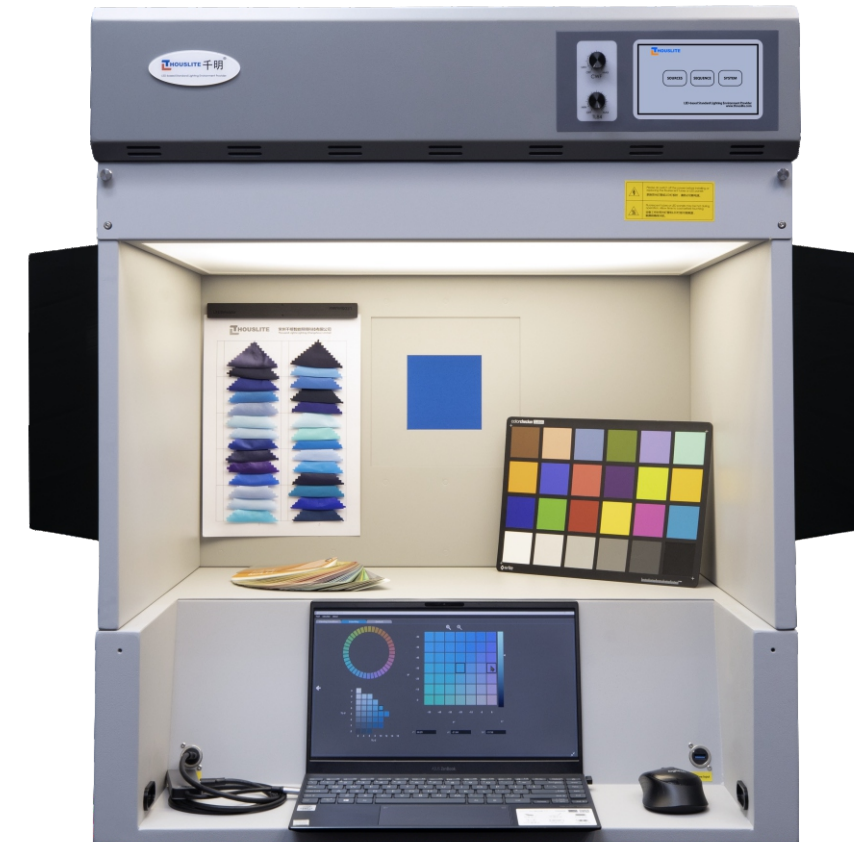
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LED Simulator

Total Appearance Reproduction System

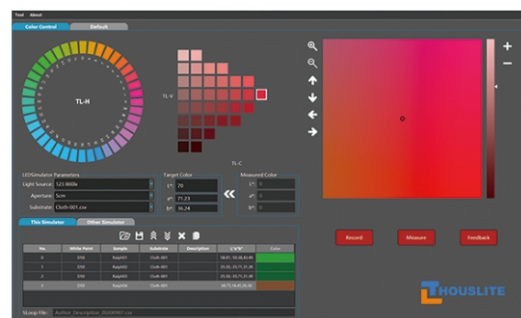


- ◆ Explore millions of colors in a wide gamut
- ◆ Match small, odd-shaped, and other unmeasurable samples to create digital specifications
- ◆ Adjust color specifications based on the impact of each surface texture
- ◆ Visualize color on any undyed base cloth or pale shade fabric
- ◆ Input L^*C^*h , $L^*a^*b^*$, and XYZ
- ◆ Import spectral data
- ◆ Output dyeable spectral data in a QTX format

Creative, Digital, Fast and Economical

Color is a critical component across brand product design, retail sourcing, and product manufacturing, the three segments of the global supply chain. Choosing the right color starts at the Brand and must be communicated quickly to sourcing and the manufacturers. LEDSimulator supports design creativity, allowing color to be digitized and accurately visualized on any texture. Total Appearance data and images are then communicated to sourcing and manufacturing as specifications to drive production and quality. LEDSimulator's key technology is a spectral tunable LED lighting system that produces a large gamut of virtual color samples on any material surface under accurate standard viewing conditions. LEDSimulator enables unparalleled visualization to foster creativity, expedite the design cycle, and eliminate wasteful sampling.

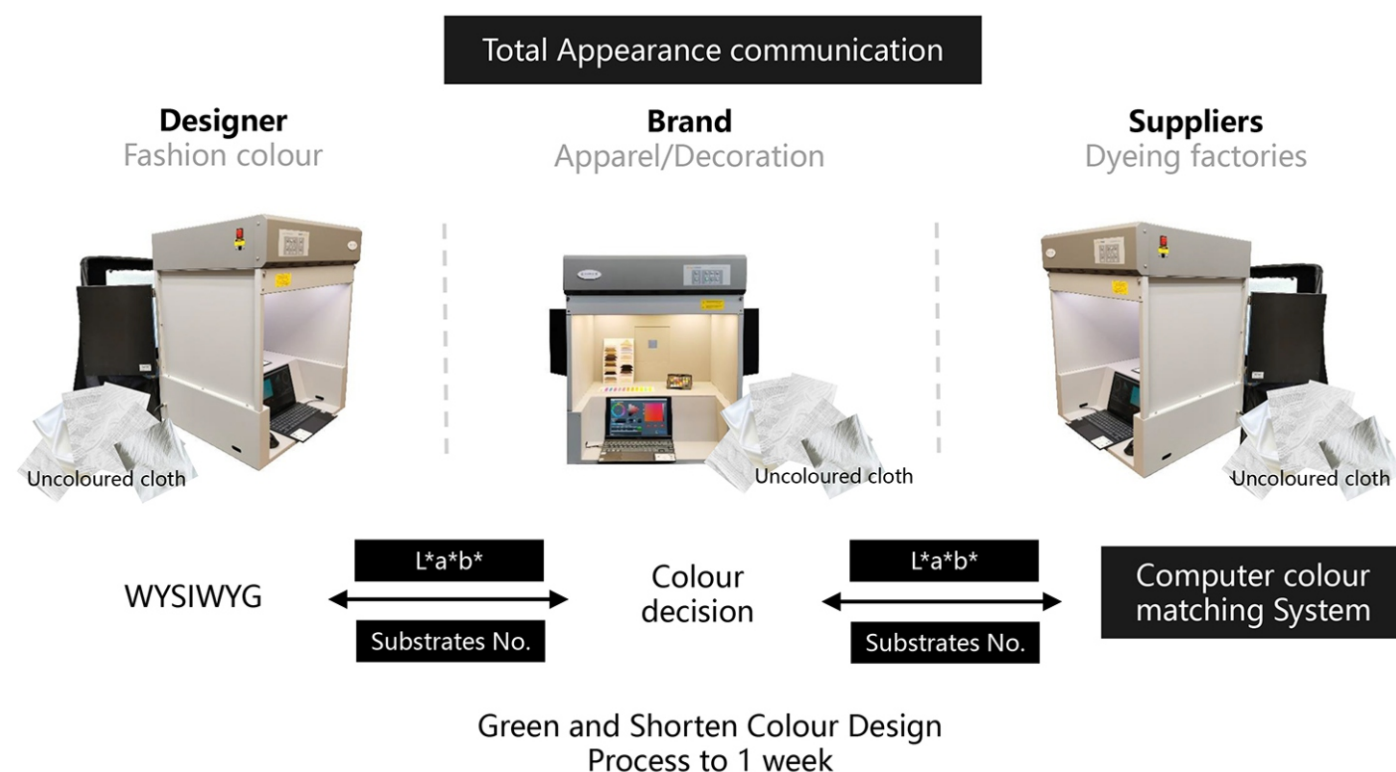
Real-time Data Transmission System



▲ Explore color space in a new way to find your perfect colors.

▲ Project newly-discovered colors onto real fabrics to see the impact of surface texture on Total Appearance

A Powerful Tool for Color Communication



Technical Parameter

	Color assessment (Color assessment cabinet)	Light simulation (Color assessment cabinet + LEDPanel)	
Model	LEDView - STD	LEDView - STD	LEDPanel - S3
LED channels	14 channel	14 channel	-
Spectral range	380~730 nm	380~730 nm	-
LED channel drive method	Amplitude Modulation	Amplitude Modulation	Amplitude Modulation
Resolution	10 bit (1024 steps dimmable for each channel)	10 bit (1024 steps dimmable for each channel)	10 bit (1024 steps dimmable for each channel)
Warm up time	No	No	No
LED lifetime	>12,000 hours	>12,000 hours	>12,000 hours
LED simulated source amount	80 light source in LEDView hardware and can be switched via touch screen switch panel, unlimited in software	-	>1,000,000,000 colors
LED simulated source options	Daylight Options (exclude UV): CIE D50, CIE Ra: 99, Mlvis: A, 1000lux CIE D65, CIE Ra: 99, Mlvis: A, 1000lux CIE D75, CIE Ra: 99, Mlvis: A, 1000lux Others: A, CIE Ra>97 or customer specify	Default light source: CIE D50, CIE Ra: 99, Mlvis: A, 500lux CIE D65, CIE Ra: 99, Mlvis: A, 500lux A, CIE Ra>97, 500lux TL84, 500lux	-
LED simulated source CCT range and accuracy	CCT: 2000~20000K Duv: -0.02~+0.02	-	-
Color Gamut	-	-	larger than the gamut of sRGB and DCI-P3
Color difference between instruments	-	-	< 1 ΔE00
LED simulated source illumination level	Default: 1500 lux Further adjust via software. Max up to 2500lux, depending on the illuminant	Default: 500 lux	120 cd/m2 @ Reflection 94%
LED simulated source stability	±1.5%	±1.5%	±1.5%
Two options for fluorescent tubes	Choose two from the following three CWF (Default) TL84 (Default) TL83	-	-
Fluorescent intensity adjustment	Yes	-	-
Software instrument compatibility	-	-	Jeti Specbos 1211UV
Uniformity	85%	85%	85%
Interior color	Munsell N5 Munsell N7 (Default)	Munsell N5 Munsell N7 (Default)	-
Observation area size(L/W/H)	650×540×390 mm	650×540×390 mm	3 kinds of Shading boards 50×50mm 100×100mm 150×150mm
Control method	Touch screen	Touch screen	USB cable
Electrical	100-240V 50/60Hz, 300W MAX		
External dimensions(L/W/H)	1230×1020×840 mm		
Weight	70 Kg		
Scope of delivery	Overhead luminaire, viewing cabinet, diffuser, power cord, USB cable, Portable darkroom, 3 kinds of Shading boards, THOUSLITE FS spectrometer (optional)		
Software	-	ColorWay	

*The ambient temperature of LEDSimulator should be at 25±2°