

# LEDTrans

## Transparent Uniform Lighting Box

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 achieve 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.



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<b>LED channels<sup>*1</sup></b>	14 channels
<b>LED channel drive method</b>	Amplitude Modulation
<b>Spectral range</b>	380-730 nm
<b>Resolution<sup>*2</sup></b>	10 bit (1024 steps dimmable for each channel)
<b>Warm up time</b>	No
<b>Lifetime</b>	>10,000 hours
<b>Predefined illuminants<sup>*3</sup></b>	D75, D65, D50, A CIE Ra 99, Mlvis: Grade A (<0.25)
<b>Tunable range</b>	CCT: 2000~20000K CIE Ra:80~100
<b>Luminous emittance</b>	Max. up to 18000lux, min down to 180lux, depending on illuminant, can be combined with a neutral density filter
<b>Uniformity</b>	Illumination surface (D280, 280×210mm), >96%
<b>Short-term stability<sup>*4</sup></b>	D65 <±10K, D50<±5K; illuminance <±0.5%
<b>Long-term stability<sup>*5</sup></b>	D65 <±25K, D50<±15K; illuminance <±1.5%
<b>Software instrument compatibility</b>	X-Rite i1 Pro 2, Konica Minolta CL500A, THOUSLITE FS spectrometer
<b>Electrical</b>	230V/110V 50/60Hz, 150W Maximum
<b>Operating ambient temperature</b>	0-30 °C
<b>Connection</b>	USB cable
<b>External dimensions(W/D/H)</b>	682×343×440 mm
<b>Weight</b>	24 kg
<b>Scope of delivery</b>	LEDTrans lighting box, diffuser, power cord, USB cable, software LEDNavigator-LT with dongle, THOUSLITE FS spectrometer, Neutral density filter (optional), remote controller(optional), SDK <sup>*6</sup> available on request
<b>Software</b>	Modules in software LEDNavigator-LT: 1. Blackbody locus simulator 2. SPD Match 3. Single channel control 4. Dynamic lighting 5. Fast & accurate feedback <sup>*7</sup>

\*1 : The number of LED kinds

\*2 : Actually 1000 steps can be used because some steps for low luminance calibration.

\*3 : Light quality is measured with 80% power

\*4 : When set light source as D50 without warm up time under environment temperature 25°, short-term stability is measured during 24 hours and compared to average value.

\*5 : When set light source as D50 after 30 minutes warm up time under environment temperature 25°, long-term stability is measured during 90 days and compared to average value.

\*6 : Users can utilize the SDK to realized the functions of Dynamic lighting, Single channel control.

\*7 : Users need to have the compatible instrument for measurements