LEDBTC

LEDBTC is a large, transparent, uniform illuminator using multi-channel LED technology. It is specially designed to provide a large transmissive target for testing camera quality.

Explore More

	LEDBTC-T200150
Digital driving channels	24
LED channels[*1]	14
LED channel drive method	Amplitude Modulation, AM / Pulse-width modulation, PWM / AP[*2]
Spectral range	380-730 nm
Resolution[*3]	10 bit (1024 steps dimmable for each channel)
Warm up time	No
Lifetime	>10,000 hours
Capacity	80 light source in LEDCube hardware, unlimited in software
Predefined illuminants[*4]	D75, D65, D55, D50, A CIE Ra > 98, MIvis: Grade A (<0.25)
Tunable range	CCT: 2000~20000K Duv: -0.02~+0.02
Luminous emittance	Max. up to 3000lux, depending on illuminants
Uniformity	>90%
Short-term stability[*5]	ΔCCT<±20K; ΔLuminance <±1%
Long-term stability[*6]	ΔCCT<±50K; ΔLuminance <±2%
Software instrument compatibility	Konica Minolta CL500A & CS-2000, THOUSLITE FS & FS-VIS-IR Spectrometer Jeti Specbos 1211UV spectroradiometer
Electrical	230V/110V 50/60Hz, 150W Maximum
Operating ambient temperature	25°C±3 °C
Connection	USB cable
Dimensions(W/D/H)	External dimensions(W/D/H) excluded stand: 239cm × 92.7cm × 188 cm Emitting surface: 200cm x 150cm
Weight	Excluded stand: 330 kg
Scope of delivery	LEDBTC, power cord, USB cable, software LEDNavigator-LT with dongle, controller of touch panel, SDK[*7] 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[*8]

*1 : The number of LED kinds
*2 : AP is the hybrid driving of AM and PWM. The frequency of PWM is from 0.1 Hz to 1000 Hz.
*3 : Actually 1000 steps can be used because some steps for low luminance calibration.
*4 : Light quality is measured with 80% power
*5 : When set light source as D50 without warm up time under enviroment temperature 25°, short-term stability is measured during 24 hours and compared to average value.
*6 : When set light source as D50 after 30 minutes warm up time under enviroment temperature 25°, long-term stability is measured during 90 days and compared to average value.
*7 : Users can utilize the SDK to realized the functions of Dynamic lighting, Single channel control.
*8 : Users need to have the compatible instrument for measurements

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