

LEDPanel

Multi-channel LED Calibration Source

LEDPanel is an innovative light source for camera module & sensor calibration in production line. Based on our proprietary software LEDNavigator and a set of LED channels with different SPD (Spectral Power Distribution), LEDPanel can simulate CCT (Correlated Color Temperature) from 2700K to 6500K with accuracy $<\pm 50K$.



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	LEDPanel-5050	LEDPanel-290224
LED channels ^{*1}	Default 4 channels, Max 6 channels	6 channels
Spectral range	400-780nm	420-700nm
LED channel drive method	Amplitude Modulation	
Resolution ^{*2}	10 bit (1024 steps dimmable for each channel)	
Warm up time	<1 s	
LED Lifetime	>10,000 hours	
Capacity	80 light source in switch box	
Predefined illuminants	2800K, 4150K, 5000K, 6500K	
Output surface dimension	50mm×50mm	290mm×224mm
Output surface uniformity ^{*3}	96±2% (Min/Max)	95±3% (Min/Max)
CCT tunable range	2800~6500K	
CCT accuracy ^{*4}	<±50K	
Luminance tunable range	10lx - 2000lx	
Short-term stability ^{*5}	Ra>90, CCT@6500K<±20K, CCT@5000K<±10K,; Luminance <±0.5%	
Long-term stability ^{*6}	Ra>90, CCT@6500K<±25K, CCT@5000K<±15K,; Luminance <±1.5%	
Software instrument compatibility	Konica Minolta CL500A, Konica Minolta CS2000, THOUSLITE FS Spectrometer Jeti Specbos 1211UV spectroradiometer	
Electrical	110/230V, 50/60Hz, 8W Maximum	110/230V, 50/60Hz, 15W Maximum
Operating ambient temperature	0-30°C	
Connection	Switch box, USB cable	
Dimensions(L/W/H) & Weight	90×90×46mm, 0.5kg	326×362×32mm, 4kg
Scope of delivery	LEDPanel light source×1, Switch Box×1, Adapter×1, Power Supply Cable×1, USB cable×1	
Software (optional)	LEDNavigator and serial communication protocol ^{*7}	

*1 : The number of LED kinds

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

*3 : Light uniformity is measured with 1000 lux.

*4 : Delta CCT is measured with 1000 lux.

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

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

*7 : Users can utilize serial communication protocol to turn on/off the lighting.