L -Series

ImagingLuminanceMeter

High dynamic range | Luminance and color | Contrast | Uniformity

CHARACTERISTIC

• L-Series Imaging Luminance Meter is equipped with 2 million, 16 million and 20million pixel resolution CMOS detector, provides excellent luminance test solutions.

• L-2 measurement speed up to 100FPS at full resolution, making it ideal for high precision, high speed measurement applications.

• L-16 features high frame rate and 128M DDR buffer memory, even in low configuration operating environments, it can be measured quickly.

• L-20 with an ultra-high resolution of 2.4um, back-illuminated sensor and it can measure noise as low as one electron.

• Support for reading and merging arbitrary partial images (ROI).

• Multiple exposure and ND filters to achieve a wide range of measurement and up to 1000000:1 contrast.

• L-Series is equipped with a Y filter.

APPLICATION

• Uniformity of Flat Panel Displays
• Backlit Keyboards
• Mobile & Backlight Uniformity Analysis
• Avionics and Automotive Panels & Ambient light Analysis
• Luminance Analysis
• LED, Lens Beam Analysis
• LED Lighting Products
• Glare analysis of roads, indoor, tunnels, etc.

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SPECIFICATION

Model	L-2	L-16	L-20
Detector	1/1.2"	4/3"	1"
Total Pixel	2.28million	16.21million	20.44million
Effective Pixels	1920*1200	4634*3500	5540*3690
Pixel Size	5.68μm*5.68μm	3.8μm*3.8μm	2.4μm*2.4μm
Dynamic Range	>1000000:1(Multiple exposure/ND filter)		
Cooled System	Two stage TEC.（Typical -45 below Ambient）		
Pixel Depth	16bits		
Exposure Time	16μsec~60sec		
Measurement Function	Luminance		
Luminance	Measurement range	0.0001 to 100,000cd/m^2	
	Accuracy*[1]	±3%	
	Repeatability(σ)*[1]	±0.5%	
Optional lens type	24mm, 28mm, 35mm, 50mm, 100mm F interface lens		
Size	88*88*150mm (L*W*H)		
Interface	LAN		
Operating temperature	5 to 50° C		
Input voltage	AC adapter		

*Measurement of luminance and chrominance measurement in the RayClouds conditions (using 1000cd/m^2 standard light source, LED backlight, 6500K LCD display).

*Specifications and appearance are subject to change without prior notice without prior notice.