

L-Series

Imaging Luminance Meter

High dynamic range | Luminance and color | Contrast | Uniformity

CHARACTERISTIC

- L-Series Imaging Luminance meter is equipped with 2 million, 16 million and 20 million 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 2.4 μ m, 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	5.68 μm *5.68 μm	3.8 μm *3.8 μm	2.4 μm *2.4 μm
Dynamic Range	>1000000:1 (Multiple exposure/ND filter)		
Cooled System	Two stage TEC. (Typical -45 below Ambient)		
Pixel Depth	16bits		
Exposure Time	16 μsec ~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	USB3.0/2.0		
Operating temperature	5 to 50° C		
Input voltage	AC adapter		

*1. Measurement of luminance and chrominance measurement in the Rayclouds conditions (using 1000cd/m² standard light source, LED backlight, 6500K LCD display).

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