

C-Series

Imaging Luminance Meter

High dynamic range | Luminance and color | Contrast | Uniformity

CHARACTERISTIC

- C-Series Imaging Luminance meter is equipped with 2 million, 10 million, 16 million, 24 million, and 36 million pixel resolution CMOS detector, provides excellent luminance and color test solutions.
- Standard measurement software provides users with the most productive software environment.
- Cooled as low as -45 degrees, which can minimize the test noise and temperature drift. Weak signals below 0.001 cd/m^2 luminance can be reliably analyzed.
- With USB bandwidth modulation and 128M DDR buffer memory, even in low configuration operating environments, it can be measured quickly.
- 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.



APPLICATION

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

Dongguan Rayclouds Photoelectric Technology Co., Ltd.

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SPECIFICATION

Model	C-2	C-10	C-16	C-24	C-36
Detector	1/1.2”	4/3”	4/3”	APS-C	Full Size
Total Pixel	2.28million	11.20million	16.21million	24million	36.17million
Effective Pixels	1920*1200	4100*2732	4634*3500	6000*4000	7338*4930
Pixel Size	5.68 μ m*5.68 μ m	4.63 μ m*4.63 μ m	3.8 μ m*3.8 μ m	3.9 μ m*3.9 μ m	4.88 μ m*4.88 μ m
Dynamic Range	>1000000:1(Multiple exposure)				
Cooled System	Two stage TEC. (Typical -45 below Ambient)				
Pixel Depth	16bits				
Exposure Time	16 μ sec~60sec				
Measurement Function	Luminance、CIE1931 & CIE1976、CCT、Dominant wavelength				
Luminance	Measurement range		0.0001 to 100,000cd/m^2		
	Accuracy* ¹		± 3%		
	Repeatability(σ)* ¹		± 0. 5%		
Chromaticity	For standard Illuminant A		± 0. 002		
	For LED light source* ¹		± 0. 002		
	For Standard LCD* ¹		± 0. 002		
	For uncorrected source		± 0. 01		
	Repeatability(σ)* ¹		± 0. 0003		
Optional lens type	24mm, 28mm, 35mm, 50mm, 100mm F interface lens				
Size	240*110*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.

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