

C-Series

Imaging Colorimeter

High dynamic range | Luminance and color | Contrast | Uniformity

CHARACTERISTIC

- C-Series Imaging Colorimeter is equipped with 2 million, 10 million, 16 million, 24million, 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 0.001cd/m² luminance can be reliably analyzed.
- With 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.



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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 μm *5.68 μm	4.63 μm *4.63 μm	3.8 μm *3.8 μm	3.9 μm *3.9 μm	4.88 μm *4.88 μm
Dynamic Range	>1000000:1(Multiple exposure)				
Cooled System	Two stage TEC. (Typical -45 below Ambient)				
Pixel Depth	16bits				
Exposure Time	16 μsec ~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* ¹	±0.002			
	For LED light source* ¹	±0.002			
	For Standard LCD* ¹	±0.002			
	For uncorrected source* ¹	±0.01			
	Repeatability(σ)* ¹	±0.0003			
Optional lens type	24mm, 28mm, 35mm, 50mm, 100mm F interface lens				
Size	240*150*160mm (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/m² standard light source, LED backlight, 6500K LCD display).

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

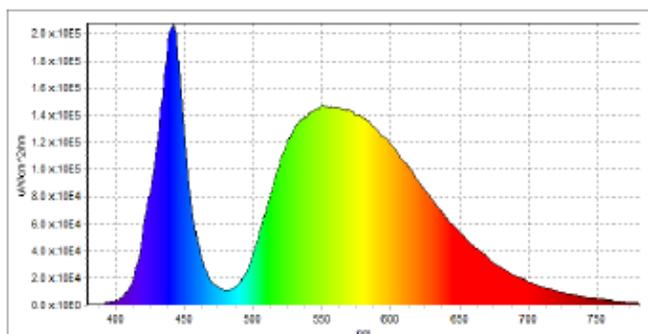
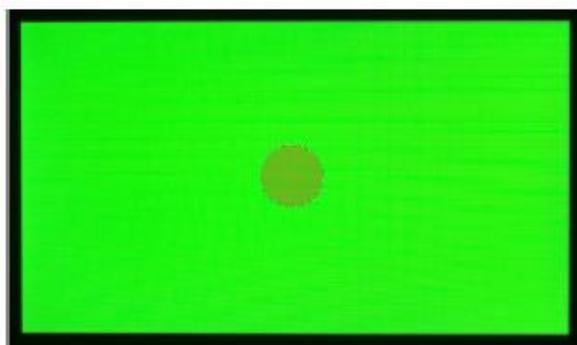
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OPTIONAL SPECTRAL ANALYSIS MODULE

Built-in beam splitter, connected to the optional built-in spectral analysis module, with a single-point spectroradiometer function; Automatic calibration to improve the accuracy of the imaging colorimeter to the level of the spectroradiometer; while providing spectroscopic radiance spectral analysis data.



SPECIFICATION

Wavelength Rang	380-780nm	
Spectrum Resolution	1nm	
Signal to noise ratio	150:1	
AD	16bits	
Exposure Time	3mSec~10Sec	
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	Standard Illuminant A	±0.002
	Repeatability(σ)* ¹	±0.0003
Interface	USB3.0/2.0	

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