

CM-10M

Luminance Colorimeter

High Speed | High Accuracy | High Sensitivity

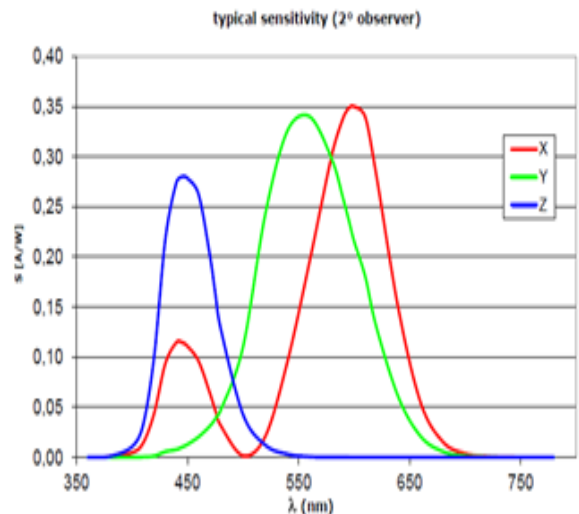
CHARACTERISTIC

- **HIGH SENSITIVE COLORIMETER**
 - .High Transmittance Filter
 - .High Sensitive Photo Diode
 - .Low Noise, High Sensitive Board Design
- **HIGH SPEED • HIGH ACCURACY**
 - .Iterative Precision: $\pm 0.5\%$ (Lv),0.001(x,y)
 - .Accuracy: $\pm 3\%$ (Lv),0.003(x,y)
 - .($\leq 5\text{cd/m}^2$,Tack Time 0.5sec)



ADVANTAGE

- **DARK(ZERO) CALIBRATION**
 - .Measurement Dark(Zero) automatically
 - .Imperviousness to temperature and humidity
- **WIDE LUMINANCE MEASUREMENT RANGE**
 - .0.01cd/m²~20,000cd/m²
 - .Fast measurement during radical change of Luminance through smart auto-gain Algorithm
- **FLICKER MEASUREMENT**
 - .Accurate Measurement with High Frequency
 - .Provide Flicker and Luminance Measurement
- **SPECTRAL CHARACTERISTIC**
 - .The filter response curves are based on the CIE1931 standard
 - .Spectral tolerance of filter curve: $\leq \pm 1\% * \lambda$



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

Dongguan Rayclouds Photoelectric Technology Co.,Ltd.

Add: Add: Floor 1&2, Building B, Dongguan Institute of Opto-electronics Peking University, No.17,Qinyuan Road, Songshan Lake, Dongguan City, Guangdong Province. China

Tel: +86 769-22667715 / +86 769-22668007 Mobil: +86 13302611249 Email: sales@rayclouds.net

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SPECIFICATION

Model	CM-10M	CM-10	CM-100
Receptor	Silicon photo cell(CIE 1931 XYZ filter)		
Measurement area	Ø10mm	Ø10mm	Ø10mm or Ø20mm
Working Distance	30 ± 5mm		
Acceptance angle	5°		
Expose time	1msec~5sec		
A/D resolution	16bit		
Display Range	0.0001 to 20,000cd/m ²		
Luminance	Measurement range	0.01 to 20,000cd/m ²	
	Accuracy* ¹	0.1~5cd/m ²	± 3%(5sec)
		≥5cd/m ²	± 2%(0.5sec)
Repeatability(σ)* ¹	0.1~5cd/m ²	1%(5sec)	
	≥5cd/m ²	0.5%(0.5sec)	
Chromaticity	Accuracy* ¹	0.1~5cd/m ²	± 0.005(5sec,at white)
		≥5cd/m ²	± 0.003%(0.5sec,at white/mono)
Repeatability(σ)* ¹	0.1~5cd/m ²	0.005(5sec)	
	≥5cd/m ²	0.001(0.5sec)	
Flicker	FMA	Display Range:0~1000%;Accuracy:± 1%	
	JEITA	Measurement range:≤ 10 cd/m ²	
		Frequency range:0~128HZ	
	Accuracy:± 0.5db		
Measurement Speed	0.1~5cd/m ²	5sec	
	≥5cd/m ²	20/sec	
	Flicker(JEITA or FMA)	1024/sec	
Interface	USB2.0		USB2.0
Operating temperature	5 to 50° C		
Input Voltage	USB 5V	USB 5V	AC220V

*1. Measurement of luminance and chrominance measurement in the Rayclouds conditions (using the standard LCD screen (6500K, 9300K)).

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