CM-10M

Colorimeter

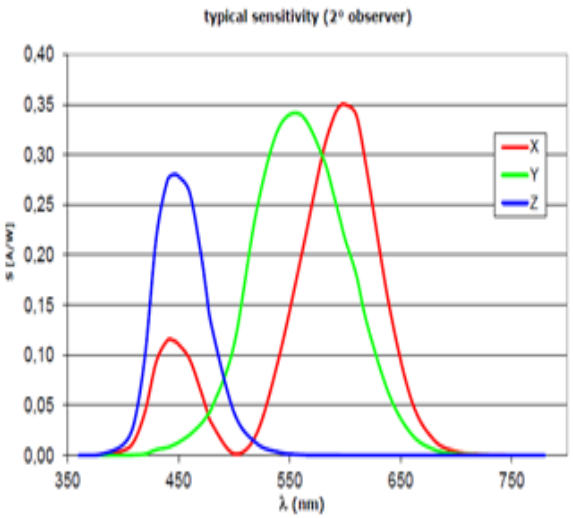
High Speed | High Accuracy | High Sensitivity

CHARACTERISTIC

- **HIGH SENSITIVE COLORIMETER**
  - .High Transmittance Filter
  - .High Sensitive Photo Diode
  - .Low Noise, High Sensitive Board Design
- **HIGH SPEED • HIGH ACCURACY**
  - .Iterative Precision:±0.5%(Lv),0.001(x,y)
  - .Accuracy:±3%(Lv),0.003(x,y)
  - .(≤5cd/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/m^2~20,000cd/m^2
  - .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:≤±1%* λ



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

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SPECIFICATION

Model	CM-10M	
Receptor	Silicon photo cell(CIE 1931 XYZ filter)	
Measurement area	Ø10mm or Ø27mm	
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:0~100%;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	
Operating temperature	5 to 50° C	
Input Voltage	USB 5V	

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

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