

CS-200 Luminance and Color Meter

PRODUCT SPECS:

What are the specs for the product?

Model	CS-200
Measurement range	0.01 - 200,000 cd/m ² (Measuring angle 1°) 0.01 - 5,000,000 cd/m ² (Measuring angle 0.2°) 0.01 - 20,000,000 cd/m ² (Measuring angle 0.1°)
Accuracy (Measuring angle 1°) #1 (Temperature: 23°C±2°C, Relative humidity: 65% max.)	150 cd/m ² (for Illuminant A) : Lv ±2 % ±1digit ; xy ±0.002 0.01-0.5 cd/m ² (for Illuminant A) : Lv ±0.02cd/m ² ±1digit ; --- 0.5-1 cd/m ² (for Illuminant A) : Lv ±0.02 cd/m ² ±1digit ; xy ±0.007 1-10 cd/m ² (for Illuminant A) : Lv ±2 % ±1digit ; xy ±0.004 10-200,000 cd/m ² (for Illuminant A) : Lv ±2 % ±1digit ; xy ±0.003 5000 cd/m ² (for Illuminant A) : color filter (R, G, B) ; xy ±0.006
Repeatability (Measuring angle 1°) #2	0.01-1 cd/m ² (for Illuminant A) : Lv ±0.01 cd/m ² ±1digit ; --- (2σ/AUTO) 1-2 cd/m ² (for Illuminant A) : Lv ±0.5 % ±1digit ; xy 0.002 (2σ/AUTO) 2-4 cd/m ² (for Illuminant A) : Lv ±0.5 % ±1digit ; xy 0.001 (2σ/AUTO) 4-8 cd/m ² (for Illuminant A) : Lv ±0.5 % ±1digit ; xy 0.0005 (2σ/AUTO) 8-200,000 cd/m ² (for Illuminant A) : Lv ±0.1% ±1digit ; xy 0.0004 (2σ/AUTO)
Measurement time	Automatic setting between 1s and 60s (AUTO); Automatic setting to 1s or 3s (LTD. AUTO) 0.5 sec / meas. (Super-FAST) 1 sec / meas.(FAST)3 sec / meas. (SLOW) 12 sec / meas. (Super-SLOW)
Measurement method	Spectral method, Grating + linear photo diode array
Measuring angle	1°, 0.2°, 0.1°(switchable)
Minimum measuring area	0.5 mm 0.1 mm (close up lens)
Minimum measuring distance	296 mm (Distance from front edge of metal lens barrel)
Observer	2/10 degrees
Color space	Lv x y, Lv u' v', Lv TΔuv, XYZ, dominant wavelength

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Measurement synchronization setting range	Vertical synchronization frequency : 40.00 to 200.00Hz
Interface	USB 1.1
Power source	AC adapter or 4 AA-Size Batteries
Battery life	Approx. 3 hours (continuous measurement / Fast mode / AA-size alkaline cells)
Size	95 mm (W) × 127 mm (H) × 330 mm (L)
Weight	1.8 kg (without battery)
Operating temperature/humidity range	0°C to 40°C, relative humidity 85% or less (at 35°C) with no condensation
Storage temperature /humidity range	0°C to 45°C, relative humidity 85% or less (at 35°C) with no condensation
<p>#1 23°C±2C Lv = 0.01-10 cd/m², SLOW, average of 30 measurements Lv = 10 cd/m² and higher, SLOW, average of 10 measurements At 0.2° measuring angle, the amount of received light is approx. 1/25 of that for 1°. Therefore, the repeatability becomes the same as that for 1° with 25 times lower luminance.</p> <p>#2 At 0.1° measuring angle, the amount of received light is approx. 1/100 of that for 1°. Therefore, the repeatability becomes the same as that for 1° with 100 times lower luminance.</p> <p>* Specifications are subject to change without notice.</p>	