

CA-210 Color Analyzer

PRODUCT SPECS:

What are the specs for the product?

Receptor		Silicon photocell
Measurement area		Φ27mm
Acceptance angle		±2.5°; Pointing function: By LED
Measurement distance		30±10mm
Display range	Luminance	0.01 to 1000cd/m2
	Chromaticity	Displayed in 4- or 3-digit value (selectable)
Luminance	Measurement range	0.10 to 1000cd/m2
	Accuracy (for white) *1	±2%, ±1 digit of reading (Temperature: 23°C ±2°C; Relative humidity:(40±10)%)
	Repeatability (2σ) *1	0.10 to 0.99cd/m2: 0.2%+1digit; 1.0 to 1000cd/m2: 0.1%+1digit
Chromaticity	Measurement range	0.10 to 1000cd/m2
	Accuracy *1	0.10 to 4.99cd/m2: ±0.008 for white 5.00 to 39.99cd/m2: ±0.005 for white 40.00 to 1000 cd/m2: ±0.003 for white 160 cd/m2: ±0.002 for white; ± 0.004 for monochrome *2
	Repeatability (2σ) *1	0.10 to 0.19cd/m2: 0.015 0.20 to 0.49cd/m2: 0.008 0.50 to 1.99cd/m2: 0.003 2.00 to 1000 cd/m2: 0.001
Measurement speed (mass / sec)	xyLv*3	0.10 to 1.99 cd/m2: 5 (4.5) 4 cd/m2 or greater: 20 (17)

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(meas./sec.)		
Display	Digital	xyLv, XYZ, T Δ uvLv, u'v'Lv, RGB analyze
	Analog	Δ x Δ y Δ Lv, R/G B/G Δ G, Δ R B/R G/R
LCD		16 characters \times 2 lines (with backlight)
SYNC mode		NTSC, PAL, EXT, UNIV, INT
Measurement subject		Vertical synchronous frequency: 40 to 200Hz
Memory channels		100
Analyzer function		Standard function
Interface		USB (Rev. 1.1) or RS-232c (38,400 bps maximum)
Multi-point measurement Max.		5 points (using optional 4-Probe Expansion Board CA-B14)
Software Solutions		SDK software (supplied as standard accessory)
Operating temperature/humidity range		Temperature: 10 to 28°C; Relative humidity 70% or less with no condensation. Luminance change: \pm 2% \pm 1 digit of reading for white; Chromaticity change: \pm 0.002 for white, \pm 0.006 for monochrome from reading of Konica Minolta's standard LCD *1, 160.0 cd/m ² at 23°C 40%RH
Storage temperature/humidity range		0 to 28°C: Relative humidity 70% or less with no condensation; 28 to 40°C: Relative humidity 40% or less with no condensation
Input voltage range		100 to 240V~50/60Hz, 50VA
Dimensions (W \times H \times D)		Main body: 340 \times 127 \times 216mm Probe: Φ 49 \times 204mm

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Weight	Main body: 3.58kg; Probe: 520g
For more details, or for details regarding Small Universal Measuring Probe and LCD Flicker Measuring Probes, please request a catalog from your sales representative.	
*1: Chromaticity and luminance measured under Konica Minolta's conditions (Standard LCD at 6500K and 9300K)	
*2: The luminance for monochrome is measured when the reading of luminance for white is 160 cd/m ² .	
*3: For single probe and USB; figures in parentheses for RS-232C with baud rate of 38,400 bps.	
* Specifications are subject to change without notice.	