

CA-310

PRODUCT SPECS:

What are the specs for the product?

All specifications other than **Measurement area** are for the Ø27mm measurement area probe.

Receptors	Silicon photocells	
Measurement area	Ø27mm (Ø10mm probes also available)	
Acceptance angle	±2.5°	
Measurement distance	30±10mm	
Display range	Luminance	0.0001 to 1000 cd/m ²
	Chromaticity	Displayed as 4- or 3-digit value (selectable)
Luminance	Measurement range	0.0050 to 1000 cd/m ²
	Accuracy (white) *1	10.00 to 1000 cd/m ² : ±2% (0.0050 cd/m ² : ±0.0015 cd/m ²)
	Repeatability (2σ) *1	10.00 to 1000 cd/m ² : 0.1% (0.0050 cd/m ² : 0.0010 cd/m ²)
Chromaticity	Measurement range	0.0500 to 1000 cd/m ²
	Accuracy (white)*1	120 cd/m ² : ±0.002 (± 0.004 for monochrome *2)
	Repeatability (2σ) *1	0.0500 to 0.0999 cd/m ² : 0.010 2.00 to 1000 cd/m ² : 0.001

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Flicker (Contrast method)	Measurement range	5 cd/m ² or higher
	Display range	0.0 to 999.9%
	Accuracy	±1% (Flicker frequency: 30Hz AC/DC 10% sine wave) ±2% (Flicker frequency: 60Hz AC/DC 10% sine wave)
	Repeatability (2σ)	1% (Flicker frequency: 30Hz AC/DC 10% sine wave)
Measurement speed (USB)	xyLv	0.0050 to 0.0999 cd/m ² : 4 times/sec. 0.10 to 1.99 cd/m ² : 5 times/sec. 2.000 cd/m ² to 1000 cd/m ² : 20 times/sec.
	Flicker (Contrast)	16 times/sec.
Display	Digital	xyLv, XYZ, TΔuvLv, u'v'Lv, RGB analyze
	Analog	ΔxΔyΔLv, R/G B/G ΔG, ΔR B/R G/R
	LCD	16 characters × 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 or RS-232c (38,400 bps maximum)
Multi-point measurement Max.		5 points (using optional 4-Probe Expansion Board CA-B15)

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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: $\pm 2\%$ ± 1 digit of reading for white; Chromaticity change: ± 0.002 for white, ± 0.006 for monochrome from reading of Konica Minolta's standard LCD *1, 120.0 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 AC, 50/60Hz, 50VA
Dimensions (W × H × D)	Main body: 340 × 127 × 216mm Probe: $\varnothing 49 \times 208$ mm
Weight	Main body: 3.58kg; Probe: 530g

For more details, or for details regarding Small Universal Measuring Probe and LCD Flicker Measuring Probes, please refer to the catalog downloadable from here (PDF:2.23MB) or 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 120 cd/m².

Specifications are subject to change without notice.