

# CA-100Plus Color Analyzer

## PRODUCT SPECS:

What are the specs for the product?

		CA-100Plus (Measuring Probe)	CA-100Plus (High Luminance Measuring Probe)
<b>Detector</b>		Silicon photocell	Silicon photocell
<b>Measurement diameter</b>		Φ21mm	Φ21mm
<b>Display range</b>	<b>Luminance</b>	0.01 to 1000cd/m <sup>2</sup>	0.01 to 2000cd/m <sup>2</sup>
	<b>Chromaticity</b>	Displayed in 4- or 3-digit values (selectable)	Displayed in 4- or 3-digit values (selectable)
<b>Luminance</b>	<b>Measurement range</b>	0.05 to 1000cd/m <sup>2</sup>	0.05 to 2000cd/m <sup>2</sup>
	<b>Accuracy (for white)*1</b>	±2%, ±1 digit of reading (Temperature: 23°C±2°C, Relative humidity: (40±10)%)	±2%, ±1 digit of reading (Temperature: 23°C±2°C, Relative humidity: (40±10)%)
	<b>Repeatability*1</b>	0.05 to 1000cd/m <sup>2</sup> 0.2%+1 digit (2σ)	0.05 to 2000cd/m <sup>2</sup> 0.2%+1 digit (2σ)
<b>Chromaticity</b>	<b>Measurement range</b>	0.05 to 1000cd/m <sup>2</sup>	0.05 to 2000cd/m <sup>2</sup>
	<b>Accuracy*1</b>	0.05 to 0.19cd/m <sup>2</sup> ±0.006 for white; 0.20 to 0.49cd/m <sup>2</sup> ±0.004 for white; 0.50 to 1000cd/m <sup>2</sup> ±0.003 for white; 40.00cd/m <sup>2</sup> ±0.002 for white, ±0.004 for monochrome*2	0.05 to 0.09cd/m <sup>2</sup> ±0.008 for white; 0.1 to 0.39cd/m <sup>2</sup> ±0.006 for white; 0.40 to 0.99cd/m <sup>2</sup> ±0.004 for white; 1.00 to 2000cd/m <sup>2</sup> ±0.003 for white; 40.00cd/m <sup>2</sup> ±0.002 for white, ±0.004 for monochrome*2
	<b>Repeatability*1</b>	0.05 to 0.19cd/m <sup>2</sup> 0.006 (2σ); 0.20 to 0.49cd/m <sup>2</sup> 0.002 (2σ); 0.50 to 1000cd/m <sup>2</sup> 0.001 (2σ)	0.05 to 0.09cd/m <sup>2</sup> 0.009 (2σ); 0.1 to 0.39cd/m <sup>2</sup> 0.006 (2σ); 0.40 to 0.99cd/m <sup>2</sup> 0.002 (2σ); 1.00 to 2000cd/m <sup>2</sup> 0.001(2σ)
<b>Measurement speed*3</b>	<b>xyLv</b>	0.05 to 0.99cd/m <sup>2</sup> 5 (4.5) meas./sec.*4 ; 1.00 to 1000cd/m <sup>2</sup> 20 (17) meas./sec.*4	0.05 to 1.99cd/m <sup>2</sup> 5 (4.5) meas./sec.*4 ; 2 to 2000cd/m <sup>2</sup> 20 (17) meas./sec.*4

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		20 (17) meas./sec.*4	20 (17) meas./sec.*4
<b>Display</b>	<b>Digital</b>	xyLv, T $\Delta$ uvLv, RGB, XYZ, u'v'Lv	xyLv, T $\Delta$ uvLv, RGB, XYZ, u'v'Lv
	<b>Analog</b>	$\Delta$ x, $\Delta$ y, $\Delta$ Lv, R/G, B/G, $\Delta$ G, $\Delta$ R, B/R, G/R	
<b>SYNC mode</b>		NTSC, PAL, EXT, UNIV, INT	NTSC, PAL, EXT, UNIV, INT
<b>Object under measurement</b>		Vertical synchronous frequency: 40 to 200Hz	Vertical synchronous frequency: 40 to 200Hz
<b>Memory channels</b>		100	100
<b>Analyzer function</b>		Standard function	Standard function
<b>Interface</b>		USB (Version 1.1) or RS-232C (38,400bps or below)	USB (Version 1.1) or RS-232C (38,400bps or below)
<b>Multi-point measurement</b>		Max. 5 points (Use 4-Probe Expansion Board CA-B04.)	Max. 5 points (Use 4-Probe Expansion Board CA-B04.)
<b>Operating temperature/humidity range</b>		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, 0.006 for monochrome (from reading of Konica Minolta's standard CRT*1, 40.00cd/m <sup>2</sup> , at 23°C, 40%)	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, 0.006 for monochrome (from reading of Konica Minolta's standard CRT*1, 40.00cd/m <sup>2</sup> , at 23°C, 40%)
<b>Storage temperature/humidity range</b>		0 to 28°C: Relative humidity 70% or less with no condensation 28 to 40°C: Relative humidity 40% or less with no condensation	0 to 28°C: Relative humidity 70% or less with no condensation 28 to 40°C: Relative humidity 40% or less with no condensation
<b>Input voltage range</b>		100 to 240V~, 50 to 60Hz, 50VA	100 to 240V~, 50 to 60Hz, 50VA
<b>Dimensions (W × H × D)</b>	<b>Main unit, Probe</b>	340 × 127 × 216mm, $\Phi 45$ × 142mm	340 × 127 × 216mm, $\Phi 45$ × 142mm

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Weight	Main unit, Probe	3.58kg, 285g	3.58kg, 285g
<p>*1: The chromaticity and luminance are measured under Konica Minolta's condition (standard CRT (6500K) is used).</p> <p>*2: The luminance for monochrome is measured when the reading of luminance for white is 40.00cd/m<sup>2</sup></p> <p>*3: Measuring probe connected to probe connector P1 only; USB used. (Used baud rate: 38,400bps)</p> <p>*4: In CA-200 mode</p> <p>*: Select the probe from four types.</p> <p>*: Specifications are subject to change without notice.</p>			