

		CA-VP427A	CA-VP427	CA-P427	CA-P427H	CA-VP410A	CA-VP410	CA-VP410T	CA-P410	CA-P410H	CA-VP404	CA-VP402		
		Advanced High Sensitivity Probe	High Sensitivity Probe	Normal Probe	High Luminance Probe	Advanced High Sensitivity Probe	High Sensitivity Probe	LWD Probe	Normal Probe	High Luminance Probe	Small Spot Probe	Small Spot Probe		
Measurement area		Ø 27 mm	Ø 27 mm	Ø 27 mm	Ø 27 mm	Ø 10 mm	Ø 10 mm	Approx. Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 4 mm	Ø 2.1 mm		
Acceptance angle		± 2.5°	± 2.5°	± 2.5°	± 2.5°	± 8.5°	± 8.5°	± 4°	± 5°	± 5°	± 8.5°	± 10°		
Accuracy guaranteed measurement distance		30 ± 10 mm	30 ± 10 mm	30 ± 10 mm	30 ± 10 mm	30 ± 5 mm	30 ± 5 mm	200 ± 2 mm	30 ± 5 mm	30 ± 5 mm	30 ± 2 mm	28 ± 2 mm		
Display range	Luminance ¹⁾	0.0001 to 5,000 cd/m ²	0.0001 to 3,000 cd/m ²	0.0001 to 3,000 cd/m ²	0.0001 to 3,000 cd/m ²	0.0001 to 3,000 cd/m ²	0.0001 to 3,000 cd/m ²	0.0001 to 12,000 cd/m ²	0.0001 to 5,000 cd/m ²	0.0001 to 30,000 cd/m ²	0.0001 to 12,000 cd/m ²	0.0001 to 6,000 cd/m ²		
	Chromaticity	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits		
Accuracy guaranteed range ²⁾		0.0003 to 5,000 cd/m ²	0.001 to 3,000 cd/m ²	0.001 to 5,000 cd/m ²	0.01 to 30,000 cd/m ²	0.0003 to 3,000 cd/m ²	0.001 to 3,000 cd/m ²	0.004 to 12,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²	0.004 to 12,000 cd/m ²	0.002 to 6,000 cd/m ²		
Luminance	Accuracy (for white) ^{1), 3)}	> 0.0003 cd/m ²	± 9%	± 9%	± 9%	± 9%	± 9%	± 9%	± 9%	± 9%	± 9%	± 9%		
		> 0.001 cd/m ²	± 4%	± 9%	± 9%	± 9%	± 4%	± 9%	± 9%	± 9%	± 9%	± 9%		
		> 0.01 cd/m ²	± 2%	± 2%	± 2%	± 9%	± 2.5%	± 2.5%	± 9%	± 2.5%	± 2.5%	± 9%		
		> 0.1 cd/m ²	± 1.5%	± 1.5%	± 1.5%	± 2%	± 2%	± 2%	± 3%	± 2%	± 2%	± 3%		
		> 1 cd/m ²	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 2%	± 2%	± 3%	± 2%	± 2%	± 3%		
	Repeatability (2σ) ¹⁾	AUTO	> 10 cd/m ²	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 2.5%	± 1.5%	± 2%	± 2.5%	± 2.5%	
			> 100 cd/m ²	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 1.5%	± 2%	± 1.5%	± 2%	± 2%	
			> 0.0003 cd/m ²	10%	---	---	---	7%	---	---	---	---	---	
			> 0.001 cd/m ²	4%	10%	10%	10%	3%	7%	10% (0.004 to cd/m ²)	---	---	10% (0.004 to cd/m ²)	10% (0.002 to cd/m ²)
			> 0.01 cd/m ²	1%	1%	1%	10%	1%	1%	5%	2%	---	5%	10%
Accuracy guaranteed luminance range ³⁾		0.003 to 5,000 cd/m ²	0.01 to 3,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²	0.003 to 3,000 cd/m ²	0.01 to 3,000 cd/m ²	0.04 to 12,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²	0.04 to 12,000 cd/m ²	0.02 to 6,000 cd/m ²		
Chromaticity	Accuracy (for white) ^{1), 3)}	> 0.003 cd/m ²	± 0.003	---	---	± 0.003	---	---	---	---	---	---		
		> 0.01 cd/m ²	± 0.002	± 0.003	± 0.003	---	± 0.002	± 0.003	± 0.006	± 0.006	± 0.004 (0.04 to cd/m ²)	± 0.004 (0.02 to cd/m ²)		
		> 0.1 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.003	± 0.002	± 0.002	± 0.004	± 0.002	± 0.006	± 0.004		
		> 1 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.003	± 0.003	± 0.002	± 0.003	± 0.003		
		> 10 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.003	± 0.003	± 0.002	± 0.002	± 0.003		
	Repeatability (2σ) ¹⁾	AUTO	> 100 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	± 0.002	
			At 100 cd/m ² (for monochrome) ¹²⁾	100 cd/m ²	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	
			> 0.003 cd/m ²	0.0030	---	---	---	0.0020	---	---	---	---	---	
			> 0.01 cd/m ²	0.0030	0.0030	0.0035	---	0.0020	0.0020	0.0030 (0.04 to cd/m ²)	0.0070	---	0.0030 (0.04 to cd/m ²)	0.003 (0.02 to cd/m ²)
			> 0.1 cd/m ²	0.0008	0.0008	0.0015	0.0035	0.0008	0.0008	0.0015	0.0020	0.0070	0.0015	0.003
Flicker (CA-310 Mode) ¹⁶⁾	Flicker (Contrast)	Measurement luminance range ⁸⁾	---	---	5 to 1,500 cd/m ²	30 to 9,000 cd/m ²	---	---	---	15 to 3,000 cd/m ²	90 to 18,000 cd/m ²	---		
		Measurement target (Flicker frequency)	---	---	0.25 to 65 Hz	0.25 to 65 Hz	---	---	---	0.25 to 65 Hz	0.25 to 65 Hz	---		
		Accuracy	30 Hz, AC/DC 10% sine wave	---	± 0.4%	± 0.4%	---	---	---	± 0.4%	± 0.4%	---		
		60 Hz, AC/DC 10% sine wave	---	± 0.7%	± 0.7%	± 0.7%	---	---	---	± 0.7%	± 0.7%	---		
		Repeatability (2σ)	20-65 Hz, AC/DC 10% sine wave	---	0.3%	0.3%	---	---	---	0.3%	0.3%	---		
	Flicker (JEITA)	Measurement luminance range ⁸⁾	---	---	5 to 1,500 cd/m ²	30 to 9,000 cd/m ²	---	---	---	15 to 3,000 cd/m ²	90 to 18,000 cd/m ²	---		
		Measurement target (Flicker frequency)	---	---	0.42 to 65 Hz	0.42 to 65 Hz	---	---	---	0.42 to 65 Hz	0.42 to 65 Hz	---		
		Accuracy	30 Hz, AC/DC 4% sine wave	---	± 0.35 dB	± 0.35 dB	---	---	---	± 0.35 dB	± 0.35 dB	---		
		30 Hz, AC/DC 1.2% sine wave	---	± 0.35 dB	± 0.35 dB	---	---	---	± 0.35 dB	± 0.35 dB	---			
		Repeatability (2σ)	30 Hz, AC/DC 4% sine wave	---	0.1 dB	0.1 dB	---	---	---	0.1 dB	0.1 dB	---		
30 Hz, AC/DC 1.2% sine wave	---	0.3 dB	0.3 dB	---	---	---	0.3 dB	0.3 dB	---					
XYZ (Wide Frequency Mode) ¹⁶⁾	Flicker (Contrast)	Measurement luminance range ⁸⁾	5 to 3,000 cd/m ²	5 to 3,000 cd/m ²	5 to 5,000 cd/m ²	30 to 30,000 cd/m ²	15 to 3,000 cd/m ²	15 to 3,000 cd/m ²	20 to 12,000 cd/m ²	15 to 5,000 cd/m ²	90 to 30,000 cd/m ²	20 to 12,000 cd/m ²		
		Measurement target (Flicker frequency)	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz		
		Accuracy	30 Hz, AC/DC 10% sine wave	± 1.1%	± 1.1%	± 1.2%	± 1.2%	± 0.4%	± 0.4%	± 1.1%	± 0.7%	± 0.7%		
		60 Hz, AC/DC 10% sine wave	± 1.7%	± 1.7%	± 1.7%	± 1.7%	± 1.7%	± 1.7%	± 1.7%	± 1.1%	± 1.1%	± 1.7%		
		Repeatability (2σ)	20-65 Hz, AC/DC 10% sine wave	1.6%	1.6%	1.7%	1.7%	0.3%	0.3%	0.16	1.0%	1.0%		
	Flicker (JEITA)	Measurement luminance range ⁸⁾	5 to 3,000 cd/m ²	5 to 3,000 cd/m ²	5 to 4,500 cd/m ²	30 to 27,000 cd/m ²	15 to 2,000 cd/m ²	15 to 2,000 cd/m ²	20 to 12,000 cd/m ²	15 to 5,000 cd/m ²	90 to 30,000 cd/m ²	20 to 12,000 cd/m ²		
		Measurement target (Flicker frequency)	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz		
		Accuracy	30 Hz, AC/DC 4% sine wave	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB		
		30 Hz, AC/DC 1.2% sine wave	± 0.35 dB	± 0.35 dB	± 0.35 dB	---	± 0.35 dB	± 0.35 dB	± 0.35 dB	± 0.35 dB	---	± 0.35 dB		
		Repeatability (2σ)	30 Hz, AC/DC 4% sine wave	0.4 dB	0.4 dB	0.4 dB	0.4 dB	0.1 dB	0.4 dB	0.3 dB	0.3 dB	0.4 dB		
30 Hz, AC/DC 1.2% sine wave	1.4 dB	1.4 dB	1.5 dB	---	0.3 dB	0.3 dB	1.4 dB	0.9 dB	---	1.4 dB				
Waveform	Measurement luminance range ⁸⁾	1 to 3,000 cd/m ²	1 to 3,000 cd/m ²	1 to 5,000 cd/m ²	6 to 30,000 cd/m ²	1 to 2,500 cd/m ²	1 to 2,500 cd/m ²	4 to 12,000 cd/m ²	1 to 5,000 cd/m ²	6 to 30,000 cd/m ²	4 to 12,000 cd/m ²			
	Sampling frequency	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz			
Accuracy guaranteed measurement speed ⁴⁾	Lvxy	AUTO	0.16 times/sec (> 0.0003 cd/m ²)	---	---	---	0.16 times/sec (> 0.0003 cd/m ²)	---	---	---	---	0.16 times/sec (> 0.002 cd/m ²)		
			1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.001 cd/m ²)	1 times/sec (> 0.001 cd/m ²)	1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.004 cd/m ²)	1 times/sec (> 0.01 cd/m ²)	1 times/sec (> 0.004 cd/m ²)	1 times/sec (> 0.05 cd/m ²)	
			5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.6 cd/m ²)	5 times/sec (> 0.15 cd/m ²)	5 times/sec (> 0.6 cd/m ²)	5 times/sec (> 1.5 cd/m ²)	
			20 times/sec (> 2 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 12 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 8 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 12 cd/m ²)	20 times/sec (> 25 cd/m ²)	
			20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	20 times/sec	
Flicker (JEITA)		0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)		
Measurement synchronization mode														
Measurement speed mode														
NTSC, PAL, EXT, UNIV, INT, MANU (4 ms to 4 s)														
AUTO, LTD, AUTO, SLOW, FAST														
Measurement target (Vertical synchronization frequency)		0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity), 0.5 to 130 Hz (flicker)	0.5 to 240 Hz (luminance and chromaticity), 0.5 to 130 Hz (flicker)	0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity), 0.5 to 130 Hz (flicker)	0.5 to 240 Hz (luminance and chromaticity), 0.5 to 130 Hz (flicker)	0.5 to 240 Hz (luminance and chromaticity)	0.5 to 240 Hz (luminance and chromaticity)		
User calibration memory channel		99 channels												
Interface	Communication	USB2.0, RS-232C												
	Trigger ³⁾	IN: 1.8 V / 3.3 to 5 V switching Out: 5 V												
Size (mm)		47 x 47 x 190.5	47 x 47 x 190.5	42 x 42 x 139.7	42 x 42 x 139.7	47 x 47 x 226.5	47 x 47 x 226.5	47 x 47 x 226.2	42 x 42 x 173.5	42 x 42 x 173.5	47 x 47 x 226.5	47 x 47 x 222.9		
Weight		510 g (including mount)	510 g (including mount)	270 g (including mount)	270 g (including mount)	570 g (including mount)	570 g (including mount)	550 g (including mount)	280 g (including mount)	280 g (including mount)	570 g (including mount)	580 g (including mount)		
Power supply		DC 5 V (input from USB bus power line or RS communication connector)												
Operation temperature/humidity range ⁵⁾		10 to 35°C, relative humidity 85% or less with no condensation												
Storage temperature/humidity range		0 to 45°C, relative humidity 85% or less (at 35°C) with no condensation												

¹⁾ Measured under Konica Minolta's standard light source (6,500K).
²⁾ Luminance for monochrome is measured when reading of luminance for white is 100 cd/m².
³⁾ Temperature 23°C/±2°C, relative humidity 40%±10%
⁴⁾ In NTSC synchronization mode using USB with one probe
⁵⁾ Reading fluctuation (compared to reference reading at 23°C, 40% RH): Luminance: ±2% for white; Chromaticity (at 100 cd/m²): ±0.002 for white, ±0.003 for monochrome
⁶⁾ "Flicker (CA-310 Mode)" and "XYZ (Wide Frequency Mode)" are mode names for PC Software CA-S40. "XYZ (Wide Frequency Mode)" can only be used when no CA-DP40 data processor is connected.

⁷⁾ The spectral sensitivities of probes conforming to CIE 170-2:2015 are different from those defined for the CIE 1931 color-matching functions; therefore, displayed values for luminance and chromaticity will be different from those calculated based on the CIE 1931 color-matching functions.
⁸⁾ Measured under Konica Minolta's standard light source (constant light). If the luminance momentarily greatly exceeds the upper limit, such as with a PWM light source with a small duty cycle, luminances below the upper limit may be shown as too high.
⁹⁾ Supports 1.8V switching from products produced in March 2021.
^{*} Unless otherwise specified, specifications are given for conditions established by Konica Minolta.

● KONICA MINOLTA, the Konica Minolta logo and symbol mark are registered trademarks or trademarks of KONICA MINOLTA, INC.
 ● The specifications and appearance shown herein are subject to change without notice.

ISO Certifications of KONICA MINOLTA, Inc., Sakai Site

	JQA-QMA15888 Design, development, manufacturing management, calibration, and service of measuring instruments		JQA-E-80027 Design, development, manufacture, service and sales of measuring instruments
--	--	--	---

Main Specifications of CA-410 Probes

		CA-P427C	CA-P410C	CA-MP410	CA-MP410H	
		CIE 170-2: 2015 Supported Probe ⁷				
		Mini Probe				
Measurement area		Ø 27 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm	
Acceptance angle		± 2.5°	± 5°	± 5°	± 5°	
Accuracy guaranteed measurement distance		30 ± 10 mm	30 ± 5 mm	10 ± 5 mm	10 ± 5 mm	
Display range	Luminance ²	0.0001 to 5,000 cd/m ²	0.0001 to 5,000 cd/m ²	0.0001 to 5,000 cd/m ²	0.0001 to 30,000 cd/m ²	
	Chromaticity	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	Displayed in 4 digits	
Luminance	Accuracy guaranteed range ³		0.001 to 5,000 cd/m ²	0.01 to 5,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²
	Accuracy (for white) ^{1, 3}	> 0.0003 cd/m ²	---	---	---	---
		> 0.001 cd/m ²	± 9 %	---	---	---
		> 0.01 cd/m ²	± 2 %	± 2.5 %	± 2.5 %	---
		> 0.1 cd/m ²	± 1.5 %	± 2 %	± 2 %	± 2.5 %
		> 1 cd/m ²	± 1.5 %	± 2 %	± 2 %	± 2 %
		> 10 cd/m ²	± 1.5 %	± 1.5 %	± 1.5 %	± 2 %
	Repeatability (2σ) ¹	> 0.0003 cd/m ²	---	---	---	---
		> 0.001 cd/m ²	10 %	---	---	---
		> 0.01 cd/m ²	1 %	2 %	2.40 %	---
		> 0.1 cd/m ²	0.4 %	0.6 %	0.70 %	2.40 %
		> 1 cd/m ²	0.10 %	0.20 %	0.25 %	0.70 %
		> 10 cd/m ²	0.10 %	0.10 %	0.12 %	0.25 %
	Accuracy guaranteed luminance range ³		0.01 to 5,000 cd/m ²	0.01 to 5,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²
Chromaticity	Accuracy (for white) ^{1, 3}	> 0.003 cd/m ²	---	---	---	
		> 0.01 cd/m ²	± 0.003	± 0.006	± 0.006	---
		> 0.1 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.006
		> 1 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002
		> 10 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002
		> 100 cd/m ²	± 0.002	± 0.002	± 0.002	± 0.002
	At 100 cd/m ² (for monochrome) ¹²	100 cd/m ²	± 0.003	± 0.003	± 0.003	± 0.003
Repeatability (2σ) ¹	> 0.003 cd/m ²	---	---	---	---	
	> 0.01 cd/m ²	0.0035	0.007	0.0085	---	
	> 0.1 cd/m ²	0.0015	0.0020	0.0025	0.0085	
	> 1 cd/m ²	0.0004	0.0008	0.0010	0.0025	
	> 10 cd/m ²	0.0003	0.0005	0.0006	0.0010	
	> 100 cd/m ²	0.0002	0.0003	0.0004	0.0006	
Flicker (CA-310 Mode) ¹⁶	Flicker (Contrast)	Measurement luminance range ⁸	5 to 1,500 cd/m ²	15 to 3,000 cd/m ²	15 to 3,000 cd/m ²	90 to 18,000 cd/m ²
		Measurement target (Flicker frequency)	0.25 to 65 Hz	0.25 to 65 Hz	0.25 to 65 Hz	0.25 to 65 Hz
		Accuracy	30 Hz, AC/DC 10% sine wave 60 Hz, AC/DC 10% sine wave	± 0.4 % ± 0.7 %	± 0.4 % ± 0.7 %	± 0.4 % ± 0.7 %
	Flicker (JEITA)	Measurement luminance range ⁸	5 to 1,500 cd/m ²	15 to 3,000 cd/m ²	15 to 3,000 cd/m ²	90 to 18,000 cd/m ²
		Measurement target (Flicker frequency)	0.42 to 65 Hz	0.42 to 65 Hz	0.42 to 65 Hz	0.42 to 65 Hz
		Accuracy	30 Hz, AC/DC 4% sine wave 30 Hz, AC/DC 1.2% sine wave	± 0.35 dB ± 0.35 dB	± 0.35 dB ± 0.35 dB	± 0.35 dB ---
Repeatability (2σ)	30 Hz, AC/DC 4% sine wave	0.1 dB	0.1 dB	0.1 dB	0.1 dB	
	30 Hz, AC/DC 1.2% sine wave	0.3 dB	0.3 dB	0.3 dB	---	
	30 Hz, AC/DC 1.2% sine wave	0.3 dB	0.3 dB	0.3 dB	---	
XYZ (Wide Frequency Mode) ¹⁶	Flicker (Contrast)	Measurement luminance range ⁸	5 to 5,000 cd/m ²	15 to 5,000 cd/m ²	15 to 5,000 cd/m ²	90 to 30,000 cd/m ²
		Measurement target (Flicker frequency)	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz
		Accuracy	30 Hz, AC/DC 10% sine wave 60 Hz, AC/DC 10% sine wave	± 1.2 % ± 1.7 %	± 0.7 % ± 1.1 %	± 0.9 % ± 1.3 %
	Flicker (JEITA)	Measurement luminance range ⁸	5 to 4,500 cd/m ²	15 to 5,000 cd/m ²	15 to 5,000 cd/m ²	90 to 30,000 cd/m ²
		Measurement target (Flicker frequency)	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz	0.42 to 200 Hz
		Accuracy	30 Hz, AC/DC 4% sine wave 30 Hz, AC/DC 1.2% sine wave	± 0.35 dB ± 0.35 dB	± 0.35 dB ± 0.35 dB	± 0.35 dB ---
Repeatability (2σ)	30 Hz, AC/DC 4% sine wave	0.4 dB	0.3 dB	0.3 dB	0.3 dB	
	30 Hz, AC/DC 1.2% sine wave	1.5 dB	0.9 dB	1.2 dB	---	
Waveform	Measurement luminance range ⁸	1 to 5,000 cd/m ²	1 to 5,000 cd/m ²	1 to 5,000 cd/m ²	6 to 30,000 cd/m ²	
	Sampling frequency	3 kHz	3 kHz	3 kHz	3 kHz	
Accuracy guaranteed measurement speed ⁴	Lvxy	AUTO	1 times/sec (> 0.001 cd/m ²) 5 times/sec (> 0.15 cd/m ²) 20 times/sec (> 2 cd/m ²)	1 times/sec (> 0.01 cd/m ²) 5 times/sec (> 0.15 cd/m ²) 20 times/sec (> 2 cd/m ²)	1 times/sec (> 0.01 cd/m ²) 5 times/sec (> 0.15 cd/m ²) 20 times/sec (> 2 cd/m ²)	1 times/sec (> 0.1 cd/m ²) 5 times/sec (> 0.9 cd/m ²) 20 times/sec (> 12 cd/m ²)
		Flicker (Contrast)	20 times/sec	20 times/sec	20 times/sec	20 times/sec
	Flicker (JEITA)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)	0.5 times/sec (at 1 HzPitch), 2.5 times/sec (at 10 HzPitch)
		Measurement synchronization mode NTSC, PAL, EXT, UNIV, INT, MANU (4 ms to 4 s)				
Measurement speed mode AUTO, LTD, AUTO, SLOW, FAST						
Measurement target (Vertical synchronization frequency) 0.5 to 240 Hz (luminance and chromaticity), 0.5 to 130 Hz (flicker)						
User calibration memory channel 99 channels						
Interface	Communication USB2.0, RS-232C					
	Trigger ⁵ IN: 1.8V / 3.3 to 5V switching Out: 5V					
Size (mm)		42 x 42 x 139.7	42 x 42 x 173.5	42 x 42 x 77	42 x 42 x 77	
Weight		270 g (including mount)	280 g (including mount)	200 g (including mount)	200 g (including mount)	
Power supply DC 5 V (input from USB bus power line or RS communication connector)						
Operation temperature/humidity range ¹¹ 10 to 35°C, relative humidity 85% or less with no condensation						
Storage temperature/humidity range 0 to 45°C, relative humidity 85% or less (at 35°C) with no condensation						

¹: Measured under Konica Minolta's standard light source (6,500K).
²: Luminance for monochrome is measured when reading of luminance for white is 100 cd/m².
³: Temperature 23°C/±2°C, relative humidity 40%±10%
⁴: In NTSC synchronization mode using USB with one probe
⁵: Reading fluctuation (compared to reference reading at 23°C, 40% RH): Luminance: ±2% for white; Chromaticity (at 100 cd/m²): ±0.002 for white, ±0.003 for monochrome
⁶: "Flicker (CA-310 Mode)" and "XYZ (Wide Frequency Mode)" are mode names for PC Software CA-S40. "XYZ (Wide Frequency Mode)" can only be used when no CA-DP40 data processor is connected.

⁷: The spectral sensitivities of probes conforming to CIE 170-2:2015 are different from those defined for the CIE 1931 color-matching functions; therefore, displayed values for luminance and chromaticity will be different from those calculated based on the CIE 1931 color-matching functions.
⁸: Measured under Konica Minolta's standard light source (constant light). If the luminance momentarily greatly exceeds the upper limit, such as with a PWM light source with a small duty cycle, luminances below the upper limit may be shown as too high.
⁹: Supports 1.8V switching from products produced in March 2021.
¹⁰: Unless otherwise specified, specifications are given for conditions established by Konica Minolta.

Probe Dimensions (unit: mm)

