

Main **Specifications of**

Display Color Analyzer	Advanced High Sensitivity Probe	Normal Probe
	0	

CA-P427

CA-VP427A

CA-527



CA-P427H



CA-VP410A



CA-VP410T



CA-P410





CA-P410H





CA-VP402

KONICA	MINOLTA		fications of 27/CA-410 es	Ø 27 mm	Ø27 mm	Ø27 mm	Ø 27 mm	Ø 10 mm	Approx. Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø4mm	Ø2.1 mm
		Acceptance angle ranteed measuremen		± 8.5° 30 ± 5 mm	± 2.5° 30 ± 10 mm	± 2.5° 30 ± 10 mm	± 2.5° 30 ± 10 mm	±8.5° 30 ± 5 mm	± 4° 200 ± 2 mm	±5° 30±5 mm	± 5° 30 ± 5 mm	±8.5° 30 ± 2 mm	±10° 28 ± 2 mm
		Accuracy guarante	> 0.0001 cd/m ²	0.0001 to 10,000 cd/m ² ± 9 %	0.0003 to 5,000 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	0.004 to 12,000 cd/m ²	0.002 to 10,000 cd/m ²	0.1 to 30,000 cd/m ²	0.004 to 12,000 cd/m ²	0.002 to 25,000 cd/m ²
			> 0.0003 cd/m ² > 0.001 cd/m ²	± 2 %	± 9 % ± 4 %	± 9 %		± 9 % ± 4 %	± 9 % (0.004 to cd/m²)	± 9 % (0.002 to cd/m²)		± 9 % (0.004 to cd/m²)	± 9 % (0.002 to cd/m²)
	Accuracy (for white)*1,*3	> 0.01 cd/m ² > 0.1 cd/m ²	± 1.5 % ± 1.5 %	± 2 % ± 1.5 %	± 2 % ± 1.5 %	± 9 % ± 2 %	± 2.5 % ± 2 %	± 9 % ± 3 %	± 2.5 % ± 2 %	± 2.5 %	± 9 % ± 3 %	± 9 % ± 3 %
		> 1 cd/m ² > 10 cd/m ²		± 1.5 % ± 1.5 %	± 1.5 % ± 1.5 %	± 1.5 % ± 1.5 %	± 1.5 % ± 1.5 %	± 2 % ± 1.5 %	± 3 % ± 2.5 %	± 2 % ± 1.5 %	± 2 % ± 2 %	±3% ±2.5%	± 3 % ± 2.5 %
Luminance			> 100 cd/m ² > 0.0001 cd/m ²	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	±2%	± 1.5 %	± 1.5 %	± 2 %	± 2 %
			> 0.0003 cd/m ²	10%	10 %			 7 %					
	Repeatability	AUTO	> 0.001 cd/m ² > 0.01 cd/m ²	1% 0.30%	4 % 1 %	10 % 1 %	10 %	3 % 1 %	10 % (0.004 to cd/m²) 5 %	10 % (0.002 to cd/m²) 2 %		10 % (0.004 to cd/m ²) 5 %	10 % (0.002 to cd/m²) 10 %
	(2σ)*1	AUTO	> 0.1 cd/m ² > 1 cd/m ²	0.12% 0.10%	0.25 % 0.10 %	0.40 % 0.10 %	1 % 0.40 %	0.25 % 0.10 %	0.50 % 0.20 %	0.60 % 0.20 %	2 %	0.50 % 0.20 %	1 % 0.25 %
			> 10 cd/m ² > 100 cd/m ²	0.10% 0.10%	0.10 % 0.10 %	0.10 % 0.10 %	0.10 % 0.10 %	0.10 % 0.10 %	0.10 % 0.10 %	0.10 % 0.10 %	0.20 % 0.10 %	0.10 % 0.10 %	0.10 % 0.10 %
	Accu	uracy guaranteed lu	ıminance range*8	0.001 to 10,000 cd/m ²	0.10 % 0.003 to 5,000 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	0.10 % 0.04 to 12,000 cd/m ²	0.10 % 0.01 to 10,000 cd/m ²	0.10 % 0.1 to 30,000 cd/m ²	0.04 to 12,000 cd/m ²	0.10 % 0.02 to 25,000 cd/m ²
			> 0.001 cd/m ² > 0.003 cd/m ²	±0.003 ± 0.003	± 0.003			± 0.003					
	Accuracy (for white)*1,*3	> 0.01 cd/m ² > 0.1 cd/m ²	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.003 ± 0.002	± 0.003	± 0.002 ± 0.002	± 0.004 (0.04 to cd/m²) ± 0.004	± 0.006 ± 0.002	± 0.006	± 0.004 (0.04 to cd/m²) ± 0.004	± 0.004 (0.02 to cd/m²) ± 0.004
		, ,	> 1 cd/m ² > 10 cd/m ²	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.003 ± 0.003	± 0.002 ± 0.002	± 0.002 ± 0.002	± 0.003 ± 0.003	± 0.003 ± 0.003
Chromaticity	1,100 1/ 2/6		> 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/m² (f	or monochrome)*2	> 100 cd/m ² > 0.001 cd/m ²	± 0.003 0.0030	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
	Repeatability		> 0.003 cd/m ² > 0.01 cd/m ²	0.0030 0.0009	0.0030	0.0035		0.0020 0.0020	0.0030 (0.04 to cd/m²)	0.0070		0.0030 (0.04 to cd/m²)	0.003 (0.02 to cd/m²)
	(2g)*1	AUTO	> 0.1 cd/m ² > 1 cd/m ²	0.0004 0.0002	0.0008 0.0003	0.0015 0.0004	0.0035 0.0015	0.0008 0.0003	0.0015 0.0005	0.0020 0.0008	0.0070 0.0020	0.0015 0.0005	0.003 0.0008
			> 10 cd/m ²	0.0002	0.0002	0.0003	0.0004 0.0003	0.0002 0.0002	0.0003	0.0005	0.0008	0.0003	0.0003
			> 100 cd/m² nent luminance range*8	0.0002 0.5 to 10,000 cd/m ²	0.0002	0.0002 5 to 1,500 cd/m ²	30 to 9,000 cd/m ²	0.0002	0.0002	0.0003 15 to 3,000 cd/m ²	0.0005 90 to 18,000 cd/m ²	0.0002	0.0002
	Flicker (Contrast)	Measurement Accuracy	t target (Flicker frequency) 30 Hz, AC/DC 10% sine wave	0.25 to 65 Hz ± 0.3%		0.25 to 65 Hz ± 0.4 %	0.25 to 65 Hz ± 0.4 %			0.25 to 65 Hz ± 0.4 %	0.25 to 65 Hz ± 0.4 %		
		, and the second	60 Hz, AC/DC 10% sine wave 20-65 Hz, AC/DC 10% sine wave	± 0.3% 0.3%		± 0.7 % 0.3 %	± 0.7 % 0.3 %			± 0.7 % 0.3 %	± 0.7 % 0.3 %		
		Measurem	nent luminance range*8 t target (Flicker frequency)	0.5 to 10,000 cd/m ² 0.42 ~ 65 Hz		5 to 1,500 cd/m² 0.42 to 65 Hz	30 to 9,000 cd/m ² 0.42 to 65 Hz			15 to 3,000 cd/m ² 0.42 to 65 Hz	90 to 18,000 cd/m ² 0.42 to 65 Hz		
Flicker	Flicker (IEITA)	Accuracy	30 Hz, AC/DC 4% sine wave	± 0.35 dB		± 0.35 dB	± 0.35 dB			± 0.35 dB	± 0.35 dB		
(CA-310 Mode)	(=,	Repeatability (20)	30 Hz, AC/DC 1.2% sine wave 30 Hz, AC/DC 4% sine wave	± 0.35 dB 0.1 dB		± 0.35 dB 0.1 dB	0.1 dB			± 0.35 dB 0.1 dB	0.1 dB		
*6			30 Hz, AC/DC 1.2% sine wave	0.3 dB 0.1 to 10,000 cd/m ²		0.3 dB				0.3 dB			
	Waveform	Sar	mpling frequency) Lv:0.1 cd/m², fs:3 kHz, fc:1 kHz	200 kHz Changeable									
		Measurem	nent luminance range **8	0.5 to 10,000 cd/m ²									
	VRR-Flicker	Sampling frequency Measurement Target (Flicker frequency)		200 kHz Changeable 0.25 to 240 Hz									
			1-120 Hz, AC/DC 10% sine wave) 1-120 Hz, AC/DC 10% sine wave										
			nent luminance range*8 t target (Flicker frequency)	0.5 to 10,000 cd/m ² 0.25 to 200 Hz	5 to 3,000 cd/m ² 0.25 to 200 Hz	5 to 5,000 cd/m² 0.25 to 200 Hz	30 to 30,000 cd/m ² 0.25 to 200 Hz	15 to 3,000 cd/m ² 0.25 to 200 Hz	20 to 12,000 cd/m ² 0.25 to 200 Hz	15 to 10,000 cd/m ² 0.25 to 200 Hz	90 to 30,000 cd/m ² 0.25 to 200 Hz	20 to 12,000 cd/m ² 0.25 to 200 Hz	35 to 25,000 cd/m ² 0.25 to 200 Hz
	Flicker (Contrast)	Accuracy	30 Hz, AC/DC 10% sine wave	± 1.5 %	± 1.1 %	± 1.2 %	± 1.2 %	± 0.4 %	± 1.1 %	± 0.7 %	± 0.7 %	± 1.1 %	± 1.1 %
		Repeatability (20)	60 Hz, AC/DC 10% sine wave 20-65 Hz, AC/DC 10% sine wave		± 1.7 %	± 1.7 %	± 1.7 %	± 0.7 % 0.3 %	± 1.7 % 0.016	± 1.1 % 1.0 %	± 1.1 %	± 1.7 %	± 1.7 %
XYZ (Wide			ment luminance range*8 t target (Flicker frequency)	0.5 to 8,500 cd/m ² 0.42 to 200 Hz	5 to 3,000 cd/m ² 0.42 to 200 Hz	5 to 4,500 cd/m ² 0.42 to 200 Hz	30 to 27,000 cd/m ² 0.42 to 200 Hz	15 to 2,000 cd/m ² 0.42 to 200 Hz	20 to 12,000 cd/m ² 0.42 to 200 Hz	15 to 8,500 cd/m ² 0.42 to 200 Hz	90 to 30,000 cd/m ² 0.42 to 200 Hz	20 to 12,000 cd/m ² 0.42 to 200 Hz	35 to 22,000 cd/m ² 0.42 to 200 Hz
Frequency Mode)*6	Flicker (JEITA)	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 ± 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	± 0.35 dB ± 0.35 dB	± 0.35 dB ± 0.35 dB
(VIOGE)		Repeatability (20)	30 Hz, AC/DC 4% sine wave 30 Hz, AC/DC 1.2% sine wave	0.4 dB 1.4 dB	0.4 dB 1.4 dB	0.4 dB 1.5 dB	0.4 dB	0.1 dB 0.3 dB	0.4 dB 1.4 dB	0.3 dB 0.9 dB	0.3 dB	0.4 dB 1.4 dB	0.4 dB 1.4 dB
	Waveform		ment luminance range*8	0.1 to 10,000 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	4 to 12,000 cd/m ²	1 to 10,000 cd/m ²	6 to 30,000 cd/m ²	4 to 12,000 cd/m ²	7 to 25,000 cd/m ²
	Repeatability (2g)		npling frequency Lv: 0.1 cd/m²	3 kHz Changeable 13%	3 kHz 	3 kHz 	3 kHz 	3 kHz 	3 kHz 	3 kHz	3 kHz 	3 kHz 	3kHz
	,, (=0)		Lv: 1 cd/m ²	1.4%	0.16 times/sec (> 0.0003 cd/m²)			0.16 times/sec(> 0.0003 cd/m²)					0.16 times/sec(> 0.002 cd/m²)
Accuracy	Lvxy		AUTO	1times/sec (> 0.0001 cd/m²) 5times/sec (> 0.015 cd/m²)	1 times/sec (> 0.01 cd/m²) 5 times/sec (> 0.15 cd/m²)	1 times/sec (> 0.001 cd/m²) 5 times/sec (> 0.15 cd/m²)	1 times/sec (> 0.01 cd/m²) 5 times/sec (> 0.9 cd/m²)	1 times/sec (> 0.01 cd/m²) 5 times/sec (> 0.15 cd/m²)	1 times/sec(> 0.004 cd/m²) 5 times/sec(> 0.6 cd/m²)	1 times/sec (> 0.002 cd/m²) 5 times/sec (> 0.15 cd/m²)	1 times/sec (> 0.1 cd/m²) 5 times/sec (> 0.9 cd/m²)	1 times/sec(> 0.004 cd/m²) 5 times/sec(> 0.6 cd/m²)	1 times/sec(> 0.05 cd/m²) 5 times/sec(> 1.5 cd/m²)
guaranteed	Flicker (Contrast)		tract)	20times/sec (> 0.2 cd/m²) 20 times /sec	20 times/sec (> 2 cd/m²) 20 times/sec	20 times/sec (> 2 cd/m²) 20 times/sec	20 times/sec (> 12 cd/m²) 20 times/sec	20 times/sec (> 2 cd/m²) 20 times/sec	20 times/sec(> 8 cd/m²) 20 times/sec	20 times/sec (> 2 cd/m²) 20 times/sec	20 times/sec (> 12 cd/m²) 20 times/sec	20 times/sec(> 8 cd/m²) 20 times/sec	20 times/sec(> 25 cd/m²) 20 times/sec
measurement speed*4	Flicker (LONTrast) Flicker (IEITA)		0.5 times/sec (at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec(at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec (at 1 HzPitch),	0.5 times/sec(at 1 HzPitch),	0.5 times/sec(at 1 HzPitch),	
	VRR-Flicker		ling frequency 3kHz	2.5 times/sec (at 10 HzPitch) 0.7 times/sec (at 1s Exp.)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec(at 10 HzPitch)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec (at 10 HzPitch)	2.5 times/sec(at 10 HzPitch)	2.5 times/sec(at 10 HzPitch)
	Measurement synchronization mode Measurement speed mode Measurement target (Vertical synchronization frequency)							INT, MANU (4 ms to 4 s) TO, SLOW, FAST					
			0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	0.5 to 240 Hz (luminance and	
		libration memory cha	nnel	chromaticity)	chromaticity)	cnromaticity), 0.5 to 130 Hz (flicker)	chromaticity), 0.5 to 130 Hz (flicker)	chromaticity) 99 ch	chromaticity)	cnromaticity), 0.5 to 130 Hz (flicker)	chromaticity), 0.5 to 130 Hz (flicker)	chromaticity)	chromaticity)
Interface		Communica Trigger	ation					USB2.0,	, RS-232C / switching Out: 5 V				
		Size (mm)		52 x 52x 272	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 226.2	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 Power supply			710 g (including mount)	510 g (including mount)	270 g (including mount)	270 g (including mount)	DC 5 V (input from USB bus power I	550 g (including mount) line or RS communication connector)	280 g (including mount)	280 g (including mount)	570 g (including mount)	580 g (including mount)
		emperature/humidity emperature/humidity							5% or less with no condensation r less (at 35°C) with no condensation				
							0 to 45°C, relative humidity 85% or less (at 35°C) with no condensation						

- 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.



Design, development, manufacture/ manufacturing manageme calibration, and service of



^{*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 fuctions.
*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.

 $^{^{\}star}\, \text{Unless otherwise specified, specifications are given for conditions established by Konica Minolta.}$

Main Sp	ecificatio	ons of		CA-P427C	CA-MP410H				
_	/CA-410			CIE 170-2: 2015 Supported Probe ⁻⁷	Mini Probe				
CA-52/	/ CA-4 10	Probes							
		Measurement area		Ø 27 mm	Ø 10 mm				
		Acceptance angle aranteed measurement	distance	± 2.5° 30 ± 10 mm	±5° 10±5 mm				
	Accuracy gut	Accuracy guarante	ed range*8	0.001 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²				
			> 0.0001 cd/m ² > 0.0003 cd/m ²						
			> 0.001 cd/m ² > 0.01 cd/m ²	±9% ±2%					
	Accuracy (for white)*1,*3		> 0.1 cd/m ²	± 1.5 %	± 2.5 %				
			> 1 cd/m ² > 10 cd/m ²	± 1.5 % ± 1.5 %	± 2 % ± 2 %				
Luminance			> 100 cd/m ²	± 1.5 %	± 1.5 %				
			> 0.0001 cd/m ² > 0.0003 cd/m ²						
	Repeatability		> 0.001 cd/m ² > 0.01 cd/m ²	10 % 1 %					
	(2o)*1	AUTO	> 0.1 cd/m ²	0.4 %	2.40 %				
			> 1 cd/m ² > 10 cd/m ²	0.10 % 0.10 %	0.70 % 0.25 %				
	Α.	COLUMN CO	> 100 cd/m ²	0.10 %	0.12 %				
	Ac	ccuracy guaranteed lur	> 0.001 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²				
			> 0.003 cd/m ² > 0.01 cd/m ²	± 0.003					
	Accuracy (for white)*1,*3		> 0.1 cd/m ²	± 0.002	± 0.006				
			> 1 cd/m ² > 10 cd/m ²	± 0.002 ± 0.002	± 0.002 ± 0.002				
Chromaticity	A+ 100 ad /m² /f	ar ma an a abrana a) *2	> 100 cd/m ² > 100 cd/m ²	± 0.002	± 0.002 ± 0.003				
	At 100 cd/ffr (i	or monochrome) *2	> 0.001 cd/m ²	± 0.003	± 0.003				
			> 0.003 cd/m ² > 0.01 cd/m ²	0.0035					
	Repeatability (2g)*1	AUTO	> 0.1 cd/m ²	0.0015	0.0085				
	(20)		> 1 cd/m ² > 10 cd/m ²	0.0004 0.0003	0.0025 0.0010				
		Moasurom	> 100 cd/m ² ent luminance range ^{*8}	0.0002 5 to 1,500 cd/m ²	0.0006 90 to 18,000 cd/m²				
			target (Flicker frequency)	0.25 to 65 Hz	0.25 to 65 Hz				
	Flicker (Contrast)	Accuracy	30 Hz, AC/DC 10% sine wave 60 Hz, AC/DC 10% sine wave	± 0.4 % ± 0.7 %	± 0.4 % ± 0.7 %				
			20-65 Hz, AC/DC 10% sine wave	0.3 %	0.3 %				
			ent luminance range*8 target (Flicker frequency)	5 to 1,500 cd/m² 0.42 to 65 Hz	90 to 18,000 cd/m² 0.42 to 65 Hz				
Flicker	Flicker (JEITA)	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				
(CA-310 Mode)		Repeatability (2σ)	30 Hz, AC/DC 4% sine wave	0.1 dB	0.1 dB				
*6			30 Hz, AC/DC 1.2% sine wave	0.3 dB 					
	Waveform	Sampling frequency Repeatability (20) Lv:0.1 cd/m², fs:3 kHz, fc:1 kHz							
		Measurement luminance range **8							
	VRR-Flicker		pling frequency Target (Flicker frequency)						
		Accuracy	1-120 Hz, AC/DC 10% sine wave						
		Measurem	1-120 Hz, AC/DC 10% sine wave ent luminance range*8	5 to 5,000 cd/m ²	90 to 30,000 cd/m²				
	Flicker (Contrast)		target (Flicker frequency) 30 Hz, AC/DC 10% sine wave	0.25 to 200 Hz ± 1.2 %	0.25 to 200 Hz ± 0.9%				
	(ochtrust)	Accuracy	60 Hz, AC/DC 10% sine wave	± 1.7 %	± 1.3 %				
XYZ (Wide Frequency		Measurem	20-65 Hz, AC/DC 10% sine wave ent luminance range*8	1.7 % 5 to 4,500 cd/m²	1.3 % 90 to 30,000 cd/m²				
			target (Flicker frequency) 30 Hz, AC/DC 4% sine wave	0.42 to 200 Hz ± 0.35 dB	0.42 to 200 Hz ± 0.35 dB				
Mode)*6	Flicker (JEITA)	Accuracy	30 Hz, AC/DC 1.2% sine wave	± 0.35 dB					
		Repeatability (2σ)	30 Hz, AC/DC 4% sine wave 30 Hz, AC/DC 1.2% sine wave	0.4 dB 1.5 dB	0.3 dB 				
	Waveform	Measurement luminance range'8 Sampling frequency		1 to 5,000 cd/m ²	6 to 30,000 cd/m ²				
	Repeatability (2σ)		v: 0.1 cd/m²	3 kHz 	3 kHz 				
	epeatability (20)	Lv: 1 cd/m²							
Accuracy	Lvxy		AUTO	1 times/sec (> 0.001 cd/m²)	1 times/sec (> 0.1 cd/m²)				
guaranteed				5 times/sec (> 0.15 cd/m²) 20 times/sec (> 2 cd/m²)	5 times/sec (> 0.9 cd/m²) 20 times/sec (> 12 cd/m²)				
measurement		Flicker (Cont	rast)	20 times/sec 0.5 times/sec (at 1 HzPitch),	20 times/sec 0.5 times/sec (at 1 HzPitch),				
speed*4		Flicker (JEIT	(A)	2.5 times/sec (at 1 HzPitch)	2.5 times/sec (at 1 HzPitch)				
VRR-Flicker Sampling frequency 3kHz Measurement synchronization mode									
Measurement synchronization mode Measurement speed mode Measurement target (Vertical synchronization frequency)				NTSC, PAL, EXT, UNIV, INT, MANU(4 ms to 4 s) AUTO, LTD. AUTO, SLOW, FAST					
				0.5 to 240 Hz (luminance and chromaticity), 0.5 to 240 Hz (luminance and chr					
	User ca	libration memory char		0.5 to 130 Hz (flicker) 0.5 to 130 Hz (flicker) 99 channels					
Interface		Communica Trigger*9		USB2.0, RS-232C IN: 1.8 V / 3.3 to 5 V switching Out: 5 V					
		Size (mm)		42 x 42 x 139.7 42 x 42 x 77					
		Weight Power supply		DC 5 V (input from USB bus power line or RS communication connector)					
	<u> </u>	temperature/humidity		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%

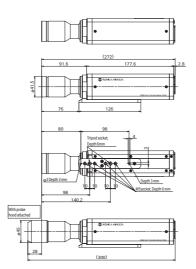
 *4: In NTSC Synchronization mode using USB with one probe

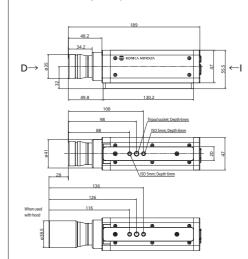
 *5: Reading fluctuation (compared to reference reading at 23°C, 40% RH): Luminance: ±2% for white; Chromaticity (at 100 cd/m²): ±0.002 for white; ±0.003 for monochrome

 *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 fuctions.
 *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.
- $^{\star}\, \text{Unless otherwise specified, specifications are given for conditions established by Konica Minolta.}$

Probe Dimensions (unit: mm)





CA-VP427A Ø27 Advanced High Sensitivity Probe

