		Main Specifications of CA-527/CA-410 Probes		CA-527 Display Color Analyzer	CA-VP427A Advanced High Sensitivity Probe	CA-P427 Normal Probe	CA-P427H High Luminance Probe	CA-VP410A Advanced High Sensitivity Probe	CA-VP410H High Sensitivity Probe for high luminance	CA-VP410T LWD Probe	CA-P410 Normal Probe	CA-P410H High Luminance Probe
					0.0	and a second				N.	A	
		Measurement area Acceptance angle		Ø 27 mm ± 8.5°	Ø 27 mm ± 2.5°	Ø 27 mm ± 2.5°	Ø 27 mm ± 2.5°	Ø 10 mm ± 8.5°	Ø 10 mm ± 8.5°	Approx. Ø 10 mm ± 4°	Ø 10 mm ± 5°	Ø 10 mm ± 5°
	Accuracy gu	uaranteed measurement o		30 ± 5 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
-		Accuracy guarantee	> 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	0.0006 ~ 6,000 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
			> 0.0003 cd/m ² > 0.0005 cd/m ²	 ± 3 %	± 9 %			± 9 %	 ±9 % (0.0006 to cd/m ²)			
	Accuracy	(for white)*1, *3	> 0.001 cd/m ² > 0.01 cd/m ²	± 2 % ± 1.5 %	±4% ±2%	± 9 % ± 2 %	 ±9%	± 4 % ± 2.5 %	±4% ±2%	± 9 % (0.004 to cd/m ²) ± 9 %	± 9 % (0.002 to cd/m ²) ± 2.5 %	
	riccuracy	(ior white)	> 0.1 cd/m ² > 1 cd/m ²	± 1.5 % ± 1.5 %	± 1.5 %	± 1.5 % ± 1.5 %	± 2 % ± 1.5 %	± 2 % ± 2 %	± 2 % ± 2 %	± 3 % ± 3 %	± 2 % ± 2 %	± 2.5 % ± 2 %
			> 10 cd/m ²	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 2.5 %	± 1.5 %	± 2 %
uminance			> 100 cd/m ² > 0.0001 cd/m ²	± 1.5 % 10 %	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 1.5 %	± 2 %	± 1.5 %	± 1.5 %
			> 0.0003 cd/m ² > 0.0005 cd/m ²	2 %	10 %			7%	 7 % (0.0006 to cd/m²)			
	Repeatability	AUTO	> 0.001 cd/m ² > 0.01 cd/m ²	1% 0.30 %	4 %	10 %	10 %	3 %	3 % 0.60 %	10 % (0.004 to cd/m ²) 5 %	10 % (0.002 to cd/m ²) 2 %	
	(20)*1		> 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 %	0.25 % 0.10 %	0.50 % 0.20 %	0.60 %	2 % 0.60 %
			> 10 cd/m ² > 100 cd/m ²	0.10 %	0.10%	0.10%	0.10 %	0.10%	0.10 %	0.10%	0.10%	0.20 %
	Ac	L ccuracy guaranteed lurr	inance range ^{*8}	0.001 to 10,000 cd/m ²	0.003 to 5,000 cd/m ²	0.10 % 0.01 to 5,000 cd/m ²	0.10 % 0.1 to 30,000 cd/m ²	0.003 to 3,000 cd/m ²	0.10 % 0.006 to 6,000 cd/m ²	0.04 to 12,000 cd/m ²	0.10 % 0.01 to 10,000 cd/m ²	0.1 to 30,000 cd/m ²
			> 0.001 cd/m ² > 0.003 cd/m ²	±0.003 ± 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	± 0.002 ± 0.002	± 0.004 (0.04 to cd/m ²) ± 0.004	± 0.006 ± 0.002	± 0.006
	.,		> 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	± 0.002 ± 0.002	± 0.003 ± 0.003	± 0.002 ± 0.002	± 0.002 ± 0.002
romaticity	At 100 cd /m ²	(for monochrome)*2	> 100 cd/m ² > 100 cd/m ²	± 0.002 ± 0.002 ± 0.003	± 0.002 ± 0.003	± 0.002 ± 0.002 ± 0.003	± 0.002 ± 0.003	± 0.002 ± 0.002 ± 0.003	± 0.002 ± 0.003	± 0.003 ± 0.002 ± 0.003	± 0.002 ± 0.002 ± 0.003	± 0.002 ± 0.002 ± 0.003
F	AL TOULD/ITE(> 0.001 cd/m ²	0.0030	± 0.003 0.0030					± 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/m ²)	0.0070	
	(2 ₀)*1	AUTO	> 0.1 cd/m ² > 1 cd/m ²	0.0004 0.0002	0.0008	0.0015 0.0004	0.0035 0.0015	0.0008	0.0008	0.0015	0.0020 0.0008	0.0070
			> 10 cd/m ² > 100 cd/m ²	0.0002	0.0002	0.0003	0.0004 0.0003	0.0002	0.0002	0.0003 0.0002	0.0005	0.0008 0.0005
		Measurement	nt luminance range ^{*8} arget (Flicker frequency)	0.5 to 10,000 cd/m ² 0.25 to 65 Hz		5 to 1,500 cd/m ² 0.25 to 65 Hz	30 to 9,000 cd/m ² 0.25 to 65 Hz				15 to 3,000 cd/m ² 0.25 to 65 Hz	90 to 18,000 cd/m ² 0.25 to 65 Hz
	Flicker*6	Accuracy	30 Hz, AC/DC 10 % sine wave	± 0.3 %		± 0.4 %	± 0.4 %				± 0.4 %	± 0.4 %
Flicker		Repeatability (20)	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 %
Contrast)			nt luminance range*8 arget (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/m ² 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	30 to 6,000 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
	XYZ*6	Accuracy	30 Hz, AC/DC 10 % sine wave 60 Hz, AC/DC 10 % sine wave	± 1.5 % ± 2.2 %	± 1.1 % ± 1.7 %	± 1.2 % ± 1.7 %	± 1.2 % ± 1.7 %	± 0.4 % ± 0.7 %	± 0.4 % ± 0.7 %	± 1.1 % ± 1.7 %	± 0.7 % ± 1.1 %	± 0.7 % ± 1.1 %
			20-65 Hz, AC/DC 10% sine wave nt luminance range ^{*8}	1.6 % 0.5 to 10,000 cd/m ²	1.6 %	1.7 % 5 to 1,500 cd/m ²	1.7 % 30 to 9,000 cd/m ²	0.3 %	0.3 %	0.016	1.0 % 15 to 3,000 cd/m ²	1.0 % 90 to 18,000 cd/m ²
			arget (Flicker frequency) 30 Hz, AC/DC 4% sine wave	0.42 ~ 65 Hz ± 0.35 dB		0.42 to 65 Hz ± 0.35 dB	0.42 to 65 Hz ± 0.35 dB				0.42 to 65 Hz ± 0.35 dB	0.42 to 65 Hz ± 0.35 dB
	Flicker*6	Accuracy	30 Hz, AC/DC 1.2% sine wave	± 0.35 dB		± 0.35 dB					± 0.35 dB	
cker (JEITA)		Repeatability (20)	30 Hz, AC/DC 4% sine wave 30 Hz, AC/DC 1.2% sine wave	0.1 dB 0.3 dB		0.1 dB 0.3 dB	0.1 dB				0.1 dB 0.3 dB	0.1 dB
oner (jenni)			ent luminance range*8 rget (Flicker frequency)*10	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	30 to 4,000 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
	XYZ*6	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
		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	0.1 dB 0.3 dB	0.4 dB 1.4 dB	0.3 dB 0.9 dB	0.3 dB
	Flicker*6		ent luminance range*8	0.1 to 10,000 cd/m ² 200 kHz Changeable								
N	T licker	Repeatability (20)	Lv: 0.1 cd/m ² , fs: 3 kHz, fc: 1 kHz	1.8 %								
Naveform	XYZ*6	Sam Repeatability (2ơ) Measurem	ent luminance range"8 bling frequency	0.1 to 10,000 cd/m ² 3 kHz Changeable	1 to 3,000 cd/m ² 3 kHz	1 to 5,000 cd/m ² 3 kHz	6 to 30,000 cd/m ² 3 kHz	1 to 2,500 cd/m ² 3 kHz	2 to 5,000 cd/m ² 3 kHz	4 to 12,000 cd/m ² 3 kHz	1 to 10,000 cd/m ² 3 kHz	6 to 30,000 cd/m ² 3 kHz
			Lv: 0.1 cd/m ² Lv: 1 cd/m ²	13 % 1.4 %								
			ent luminance range ^{*8} bling frequency	0.5 to 10,000 cd/m ² 200 kHz Changeable								
	Flicker*6	Measurement -	arget (Flicker frequency)	0.01 to 100k [Hz] ± 0.3 %								
RR-Flicker		Repeatability (2g)	1-120 Hz, AC/DC 10% sine wave ent luminance range ¹⁸	0.3 %	 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	 30 to 6,000 cd/m ²	 20 to 12,000 cd/m ²	 15 to 10,000 cd/m ²	 90 to 30,000 cd/m ²
	XYZ*6	Sam	bling frequency		3 kHz	3 kHz	3 kHz	3 kHz 0.03 to 1.5k [Hz]	3 kHz 0.03 to 1.5k [Hz]	3 kHz 0.03 to 1.5k [Hz]	3 kHz 0.03 to 1.5k [Hz]	3 kHz
	VIT 3	Accuracy	arget (Flicker frequency) 1-120 Hz, AC/DC 10% sine wave		0.03 to 1.5k [Hz] ± 0.22 %	0.03 to 1.5k [Hz] ± 0.24 %	0.03 to 1.5k [Hz] ± 0.24 %	± 0.08 %	± 0.08 %	± 0.22 %	± 0.14 %	0.03 to 1.5k [Hz] ± 0.14 %
		Repeatability (20)	1-120 Hz, AC/DC 10 % sine wave		0.32 % 0.16 times/sec (> 0.0003 cd/m ²)	0.34 %	0.34 %	0.06 % 0.16 times/sec(> 0.0003 cd/m ²)	0.06 % 0.16 times/sec (> 0.0006 cd/m ²)	0.32 %	0.20 %	0.20 %
Accuracy	Lvxy	AUTO		1times/sec (>0.0001 cd/m ²) 5times/sec (>0.015 cd/m ²)	1 times/sec (> 0.01 cd/m ²) 5 times/sec (> 0.15 cd/m ²)	1 times/sec (> 0.001 cd/m ²) 5 times/sec (> 0.15 cd/m ²)	1 times/sec (> 0.01 cd/m ²) 5 times/sec (> 0.9 cd/m ²)	1 times/sec (>0.01 cd/m ²) 5 times/sec (>0.15 cd/m ²)	1 times/sec (> 0.02 cd/m ²) 5 times/sec (> 0.3 cd/m ²)	1 times/sec(> 0.004 cd/m ²) 5 times/sec(> 0.6 cd/m ²)	1 times/sec (> 0.002 cd/m ²) 5 times/sec (> 0.15 cd/m ²)	1 times/sec (> 0.1 cd/m ²) 5 times/sec (> 0.9 cd/m ²)
uaranteed				20times/sec (> 0.2 cd/m ²) 20 times /sec	20 times/sec (> 2 cd/m ²) 20 times/sec	20 times/sec (> 2 cd/m ²) 20 times/sec	20 times/sec (> 12 cd/m ²) 20 times/sec	20 times/sec (> 2 cd/m ²) 20 times/sec	20 times/sec (> 4 cd/m ²) 20 times/sec	20 times/sec(> 8 cd/m ²) 20 times/sec	20 times/sec (> 2 cd/m ²) 20 times/sec	20 times/sec (> 12 cd/m ²) 20 times/sec
speed*4	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)	
	VRR-Flicker Sampling frequency 3 kHz			0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.) VTSC, PAL, EXT, UNIV, INT, MANU (4 ms to 4	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)	0.7 times/sec (at 1s Obs.)
		ement synchronization m easurement speed mode			0.54:2/011-/0	0.5 to 2/011-0		AUTO, LTD. AUTO, SLOW, FAST		0.51-04011		0.54-2401-0
		Int target (Vertical synchronization frequency) User calibration memory channel Communication		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 (flick
								99 channels USB2.0, RS-232C				
Trigger® Size (mm)				52 x 52x 272	47 x 47 x 190.5	42 x 42 x 139.7	42 x 42 x 139.7	IN: 1.8 V /3.3 to 5 V switching Out: 5 V 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
		Weight Power supply		710 g (including mount)	510 g (including mount)	270 g (including mount)	270 g (including mount)	570 g (including mount) from USB bus power line or RS communication	570 g (including mount)	550 g (including mount)	280 g (including mount)	280 g (including mount)
		temperature/humidity ra					10 to 35	°C, relative humidity 85 % or less with no cor lative humidity 85 % or less (at 35°C) with no	densation			
	er Konica Minolta's st	temperature/humidity ra tandard light source (6,500	K).		are mode names for PC Software CA-S40.		*10: The listed values	are for use with CA-SDK2 or CA-S40.			ISO Cortifications of KONI	CA MINOLTA, Inc., Sakai Site
Luminance for n Temperature 23 In NTSC [DOUE designated PC	monochrome is measu 3°C/±2°C, relative hu BLE FLAME] synchro (with PC and probe of	ured when reading of lumina umidity 40 %±10 % onization mode using USB directly connected, using t		"XYZ" can only be u "7: The spectral sensitiv matching functions based on the CIE 15 *8: Measured under Ko	ised when no CA-DP40 data processor is contr vities of probes conforming to CIE 170-2:2015 ; therefore, displayed values for luminance a 31 color-matching fuctions.	5 are different from those defined for the CIE 19 and chromaticity will be different from those of Int light). If the luminance momentarily great	*11: To measure VRR 931 color- calculated * Unless otherwise sp y exceeds	Flicker with the CA-410 series, firmware must ecified, specifications are given for conditions A, the Konica Minolta logo and symbol mark.	established by Konica Minolta.		JQA-QMA15888 Design, development, manufacture/ manufacture/ management	JQA-E-80027 Design, development, manufacture, service and s of measuring instruments

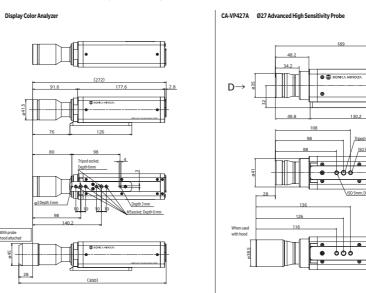


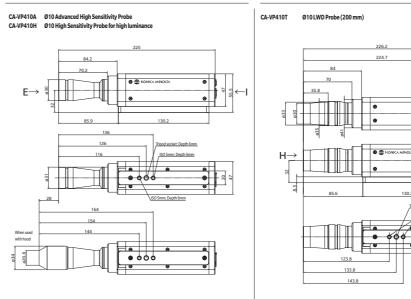


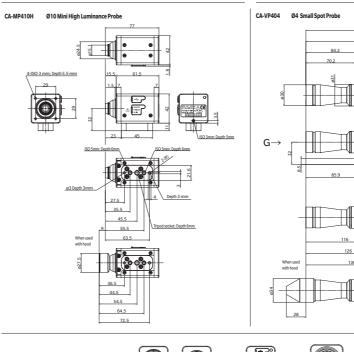
nain Sp	ecificatio	ons of		CA-VP404 Small Spot Probe	CA-VP402 Small Spot Probe	CA-P427C CIE 170-2: 2015 Supported Probe ⁻⁷	CA-MP410H Mini Probe		
A-527	/ CA-410	Probes		D	0.0				
		Measurement area		Ø4mm	Ø 2.1 mm	Ø 27 mm	Ø 10 mm		
	Accuracy	Acceptance angle	distance	±8.5° 30 ± 2 mm	±10° 28±2 mm	± 2.5° 30 ± 10 mm	± 5° 10 ± 5 mm		
	Accuracy gu	aranteed measurement of Accuracy guarantee		0.004 to 12,000 cd/m ²	0.002 to 25,000 cd/m ²	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						
			> 0.0005 cd/m ²						
	A	(fage	> 0.001 cd/m ²	± 9 % (0.004 to cd/m ²)	± 9 % (0.002 to cd/m ²)	±9% ±2%			
	Accuracy	(for white)*1, *3	> 0.01 cd/m ² > 0.1 cd/m ²	±9% ±3%	±9% ±3%	± 1.5 %	± 2.5 %		
			> 1 cd/m ²	± 3 %	± 3 %	± 1.5 %	± 2 %		
Luminance			> 10 cd/m ² > 100 cd/m ²	± 2.5 % ± 2 %	± 2.5 % ± 2 %	± 1.5 % ± 1.5 %	± 2 % ± 1.5 %		
			> 0.0001 cd/m ²						
			> 0.0003 cd/m ² > 0.0005 cd/m ²						
	Repeatability		> 0.001 cd/m ²	10 % (0.004 to cd/m ²)	10 % (0.002 to cd/m ²)	10 %			
	(2o)*1	AUTO Accuracy guaranteed lum	> 0.01 cd/m ² > 0.1 cd/m ²	<u>5 %</u> 0.50 %	10 %	1 % 0.4 %	2.40 %		
			> 1 cd/m ²	0.20 %	0.25 %	0.10 %	0.70 %		
			> 10 cd/m ² > 100 cd/m ²	0.10%	0.10 %	0.10 %	0.25 %		
	l. l		iinance range ^{*8}	0.04 to 12,000 cd/m ²	0.02 to 25,000 cd/m ²	0.01 to 5,000 cd/m ²	0.1 to 30,000 cd/m ²		
			> 0.001 cd/m ² > 0.003 cd/m ²						
		/r 11. 300 m	> 0.01 cd/m ²	± 0.004 (0.04 to cd/m ²)	± 0.004 (0.02 to cd/m ²)	± 0.003			
	Accuracy	(for white)*1,*3	> 0.1 cd/m ² > 1 cd/m ²	± 0.004 ± 0.003	± 0.004 ± 0.003	± 0.002 ± 0.002	± 0.006 ± 0.002		
			> 10 cd/m ²	± 0.003	± 0.003	± 0.002	± 0.002		
Chromaticity	Δt 100 cd /m ²	for monochrome)*2	> 100 cd/m ² > 100 cd/m ²	± 0.002 ± 0.003	± 0.002 ± 0.003	± 0.002 ± 0.003	± 0.002 ± 0.003		
	7.c100.cu/11F(> 0.001 cd/m ²	± 0.005					
			> 0.003 cd/m ² > 0.01 cd/m ²	0.0030 (0.04 to cd/m ²)	0.003 (0.02 to cd/m ²)	0.0035			
	Repeatability	AUTO	> 0.1 cd/m ²	0.0015	0.003 (0.02 to co/m²)	0.0015	0.0085		
	(2 ₀)*1		> 1 cd/m ²	0.0005	0.0008	0.0004	0.0025		
			> 10 cd/m ² > 100 cd/m ²	0.0003	0.0003	0.0003	0.0010		
			ent luminance range ^{*8}			5 to 1,500 cd/m ²	90 to 18,000 cd/m ²		
	Flicker*6		target (Flicker frequency) 30 Hz, AC/DC 10% sine wave			0.25 to 65 Hz ± 0.4 %	0.25 to 65 Hz ± 0.4 %		
F 11 1		Accuracy	60 Hz, AC/DC 10 % sine wave			±0.7%	± 0.7 %		
Flicker (Contrast)		Repeatability (20) Measureme	20-65 Hz, AC/DC 10 % sine wave ent luminance range ^{*8}	 20 to 12,000 cd/m ²	 35 to 25,000 cd/m ²	0.3 % 5 to 5,000 cd/m ²	0.3 % 90 to 30,000 cd/m ²		
	10/7-5		target (Flicker frequency)	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz	0.25 to 200 Hz		
	XYZ*6	Accuracy	30 Hz, AC/DC 10 % sine wave 60 Hz, AC/DC 10 % sine wave	± 1.1 % ± 1.7 %	± 1.1 % ± 1.7 %	± 1.2 % ± 1.7 %	± 0.9% ± 1.3 %		
		Repeatability (2g)	20-65 Hz, AC/DC 10 % sine wave	1.6 %	1.6 %	1.7 %	1.3 %		
			ent luminance range ^{*8} target (Flicker frequency)			5 to 1,500 cd/m ² 0.42 to 65 Hz	90 to 18,000 cd/m ² 0.42 to 65 Hz		
	Flicker*6	Accuracy	30 Hz, AC/DC 4% sine wave			± 0.35 dB	± 0.35 dB		
	THERE		30 Hz, AC/DC 1.2% sine wave 30 Hz, AC/DC 4% sine wave			± 0.35 dB 0.1 dB	0.1 dB		
Flicker (JEITA)		Repeatability (20)	30 Hz, AC/DC 1.2% sine wave			0.3 dB			
			ent luminance range ^{*8} arget (Flicker frequency) ^{*10}	20 to 12,000 cd/m ² 0.42 to 200 Hz	35 to 22,000 cd/m ² 0.42 to 200 Hz	5 to 4,500 cd/m ² 0.42 to 200 Hz	90 to 30,000 cd/m ² 0.42 to 200 Hz		
	XYZ*6	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 30 Hz, AC/DC 4% sine wave	± 0.35 dB 0.4 dB	± 0.35 dB 0.4 dB	± 0.35 dB 0.4 dB	0.3 dB		
		Repeatability (20)	30 Hz, AC/DC 1.2% sine wave	1.4 dB	1.4 dB	1.5 dB			
	Flicker ^{*6}		ent luminance range ^{*8} pling frequency						
		Repeatability (20)	Lv: 0.1 cd/m ² , fs: 3 kHz, fc: 1 kHz						
Waveform			ent luminance range*8 pling frequency	4 to 12,000 cd/m ² 3 kHz	7 to 25,000 cd/m ² 3kHz	1 to 5,000 cd/m ² 3 kHz	6 to 30,000 cd/m ² 3 kHz		
	XYZ*6	Repeatability (20)	Lv: 0.1 cd/m ²						
			Lv: 1 cd/m ² ent luminance range ^{*8}						
		Sam	pling frequency						
	Flicker*6	Measurement Accuracy	Target (Flicker frequency) 1-120 Hz, AC/DC 10 % sine wave						
VRR-Flicker		Repeatability (20)	1-120 Hz, AC/DC 10 % sine wave						
*10*11			ent luminance range ^{*8} pling frequency	20 to 12,000 cd/m ² 3 kHz	35 to 25,000 cd/m ² 3 kHz	5 to 5,000 cd/m ² 3 kHz	90 to 30,000 cd/m ² 3 kHz		
	XYZ*6	Measurement	Target (Flicker frequency)	0.03 to 1.5k [Hz]	0.03 to 1.5k [Hz]	0.03 to 1.5k [Hz]	0.03 to 1.5k [Hz]		
		Accuracy Repeatability (20)	1-120 Hz, AC/DC 10 % sine wave 1-120 Hz, AC/DC 10 % sine wave	± 0.22 % 0.32 %	± 0.22 % 0.32 %	± 0.24 % 0.34 %	± 0.18 % 0.26 %		
		AUTO			0.16 times/sec(> 0.002 cd/m ²)				
Accuracy	Lvxy			1 times/sec(> 0.004 cd/m ²) 5 times/sec(> 0.6 cd/m ²)	1 times/sec(> 0.05 cd/m ²) 5 times/sec(> 1.5 cd/m ²)	1 times/sec (> 0.001 cd/m ²) 5 times/sec (> 0.15 cd/m ²)	1 times/sec (> 0.1 cd/m 5 times/sec (> 0.9 cd/m		
guaranteed				20 times/sec(> 8 cd/m ²)	20 times/sec(> 25 cd/m ²)	20 times/sec (> 2 cd/m ²)	20 times/sec (> 12 cd/m		
neasurement speed*4	Flicker (Contrast)			20 times/sec 0.5 times/sec(at 1 HzPitch),	20 times/sec 0.5 times/sec(at 1 HzPitch),	20 times/sec 0.5 times/sec (at 1 HzPitch),	20 times/sec 0.5 times/sec (at 1 HzPitc		
	VRR-Flicker	Flicker (JEIT/		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 HzPit		
	Measure	ment synchronization m	ng frequency 3 kHz Iode	0.7 times/sec (at 1s Obs.) NTSC, PAL, EXT, UNIV, INT, MANU(4 ms to 4 s)					
		asurement speed mode		AUTO, LTD. AUTO, SLOW, FAST 0.5 to 240 Hz 0.5 to 240 Hz 0.5 to 240 Hz 0.5 to 240 Hz (luminance and 0.5 to 240					
Measurement target (Vertical synchronization frequency)				(luminance and chromaticity) (luminance and chromaticity) chromaticity), 0.5 to 130 Hz (flicker) chromaticity), 0.5 to 130 Hz (flicker)					
	User c	alibration memory chanr			99 ch	annels			
Interface		Communicat Trigger ⁹	1011			, RS-232C / switching Out: 5 V			
1		Size (mm)		47 x 47 x 226.5	47 x 47 x 222.9	42 x 42 x 139.7	42 x 42 x 77		
		Weight		570 g (including mount)	580 g (including mount)	270 g (including mount) line or RS communication conne	200 g (including mount ector)		
		Power supply							
		temperature/humidity r			10 to 35°C, relative humidity 8	5 % or less with no condensation			
Moorent	Storage		ange	0 to	10 to 35°C, relative humidity 8 45°C, relative humidity 85% o		ation		

Probe Dimensions (unit: mm)

CA-527





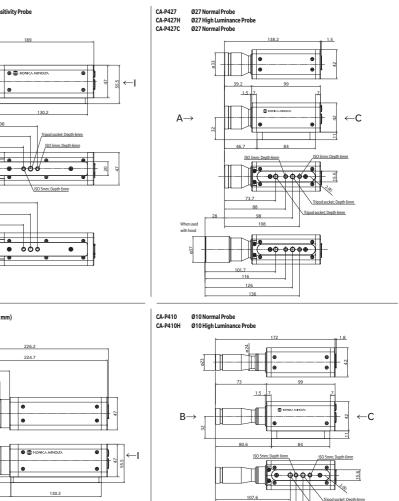


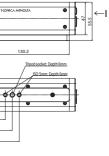
0 View A View B View C View D View E

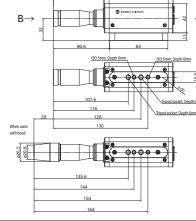
*4: In NTSC [DOUBLE FLAME] synchronization mode using USB with one probe
 *5: Reading fluctuation (compared to reference reading at 23°C, 40 % RH): Luminance: ±2 % for white; Chromaticity (at 100 cd/m²): ±0.002 for white, ±0.003 for monochrome
 *6: 'Flicker' and 'X12'' are mode names for PC Software CA-S40.
 'X72' 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.

"9: Supports 1.8V switching from products produced in March 2021.
"10: The listed values are for use with CA-SDK2 or CA-S40.
"11: To measure VRR-Flicker with the CA-410 series, firmware must be Ver. 1.40 or later and CA-SDK2 or CA-S40 must be used.

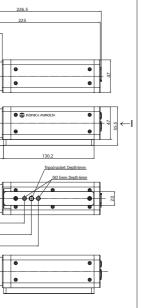
* Unless otherwise specified, specifications are given for conditions established by Konica Minolta.

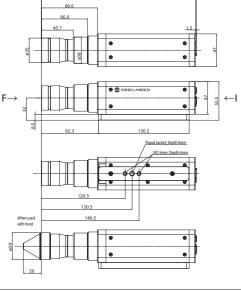












222.9 221.4









