



Spectrophotometers CM-36dG / CM-36dGV / CM-36d

Specification		CM-36dG	CM-36dGV	CM-36d
Color	Illumination/ viewing system	Reflectance: di:8°, de:8° (diffused illumination, 8° viewing) Conforms to CIE No.15 (2004), ISO7724/1, ASTM E1164, DIN 5033 Teil7 and JIS Z 8722 Condition c standards.		
		Transmittance: di:0°, de:0° (diffused illumination, 0-degree viewing) Conforms to CIE No.15 (2004), ASTM E-1164, DIN 5033 Teil 7 and JIS Z 8722 Condition g standards.		N/A
	Integrating sphere size	Ø152 mm		
	Detector	Dual 40-element silicon photodiode array		
	Spectral separation device	Planar diffraction grating		
	Wavelength range	360-740 nm		
	Wavelength pitch	10 nm		
	Half bandwidth	approx. 10 nm		
	Measurement range	0-200%		
		Resolution: 0.01%		
	Light source	3 Pulsed Xenon lamps (NUVC)		1 Pulsed Xenon lamp (UV full only)
	Light source life time	more than 1 Million		
	Illumination / Measurement area [mm]	LAV: Ø30.0 / Ø25.4 LMAV: Ø20.0 / Ø16.0 MAV: Ø11.0 / Ø8.0 SAV: Ø7.0 / Ø4.0 Trans: Ø24.0 / Ø17.0		LAV: Ø30.0 / Ø25.4 MAV: Ø11.0 / Ø8.0 SAV: Ø7.0 / Ø4.0
	Measurement time	Approx. 3.5sec (SCI + SCE measurement) Approx. 4sec (SCI + SCE + gloss measurement)		Approx. 3.5sec (SCI + SCE measurement)
	Min. measurement interval	Approx. 4sec (SCI + SCE measurement), Approx. 4.5sec (SCI or SCE + gloss measurement)		Approx. 4sec (SCI + SCE measurement)
	Repeatability	Colorimetric values: Std. dev. within ΔE^*ab 0.02 Spectral reflectance: Std. dev. within 0.1% (When a white calibration plate measured 30 times at 10sec intervals after white calibration)		Std. dev. within ΔE^*ab 0.03
IIA	Within ΔE^*ab 0.12 (LAV/SCI) Average for 12 BCRA Series II color tiles compared to values measured with master body.		Within ΔE^*ab 0.15 (LAV/SCI) Average for 12 BCRA Series II color tiles compared to values measured with master body.	
UV control	NUVC (UV100 (Full UV), UV adjusted, UV0. With 400nm and 420nm UV cutoff filters)		No adjustment function (UV100%)	
Gloss	Measurement geometry	60° (complies to ISO 2813, ISO 7668 (MAV), ASTM D523-08, ASTM D2457-13, DIN 67530, JIS-Z8741 (MAV), JIS-K5600)		N/A
	Light source	White LED		
	Detector	Silicon photo diode		
	Measurement range	0-200 GU		
		Resolution: 0.01 GU		
	Measurement area [mm]	MAV (LAV/LMAV/MAV color measurement area): Ø10.0 x 8.0		
		SAV (SAV color measurement area): Ø3.0		
	Repeatability (MAV)	0-10 GU: within 0.1 GU		
10-100 GU: within 0.2 GU				
>100 GU: within 0.2% of indicated value (Standard deviation)				
IIA (MAV)	0-10 GU: ± 0.2 GU			
	10-100 GU: ± 0.5 GU			
Sample preview	RGB Camera			
Internal Performance Check	WAA (Wavelength Analysis & Adjustment) Technology			
Interfacing	USB 2.0			
Operation temperature / humidity range	13-33°C / rH 80% or less (at 35°C) with no condensation			
Storage temperature / humidity range	0-40°C / rH 80% or less (at 35°C) with no condensation			
Size (W×H×D)	Approx. 248×250×498 mm	Approx. 300×677×315 mm	Approx. 248×250×498 mm	
Weight	Approx. 8.4 kg	Approx. 14.0 kg	Approx. 8.3 kg	