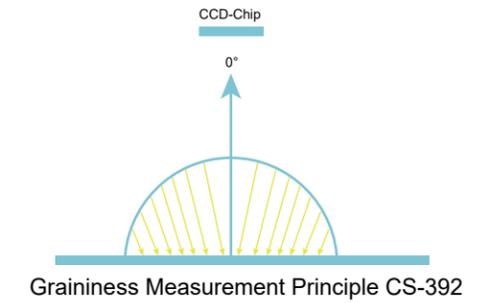
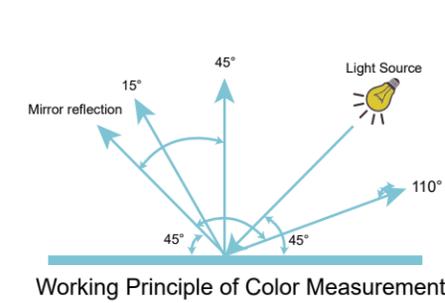


Working Theory Picture



Three Angles Color Spectrophotometer



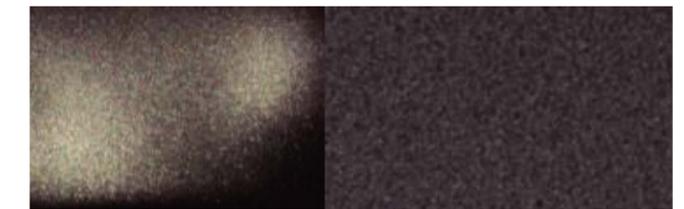
Application Examples



▲ Multi-angle color measurement



▲ Graininess Assessments



▲ Automobile Coating



▲ Laser Paper



▲ Mobile Phone Case

CS-390/392

Product Features

- It is designed to measure color value and surface graininess evaluation (for CS-392 only)
- Four contact buttons are on the bottom of the instrument to guarantee the test repeatability.
- Measure at angles of 15 degree, 45 degree, 110 degree.
- Adopt steady and long lifetime LED light source.
- Conform to ASTM D2244, E308, E1164, E2194, DIN 5033, 5063, 6174, 6175-2, DIN EN ISO 11664, ISO 7724, SAE J1545 standards.

Technical Data

Model	CS-390	CS-392	Measurement Time	Less than 2s	Less than 6s
Illumination Angle	45°		Repeatability	dE≤0.05Max. after white calibration (measured 30 x at 5-second intervals)	
Measurement Angles	15°, 45°, 110°	Color measure angle: 15°/45°/110° Graininess Measure Angle: Integrating Sphere Diffused Illumination	Inter-instrument Agreement	dE≤0.5 Average measurement of BCRA II color tiles)	
Measurement Parameter	L*a*b, L*C*h, ΔE*, ΔECMC; ΔE DIN 6175; ΔE2000	Colorimetric parameter: L*a*b, L*C*h, ΔE*, ΔECMC; ΔE DIN6175; ΔE2000 Effect parameter: Graininess level(G)	Viewing Angles	2° and 10°	
Wavelength Range	400-700nm		Measurement Area	Dia. 17mm	
Wavelength Pitch	10nm		Light Source Life time	10 years, ≥1 million times	
Reflectance Range	0-500%		Interface	USB	
Resolution	0.01%		Instrument Size	145*58*99mm	
Light Source	LED		Instrument Weight	476g	
Illuminants	A, C, D50, D65, F2, F7, F11, F12		Power	3.7V/3000mAh rechargeable lithium batter	
			Temperature	0-40 C (32-104 F)	
			Storage Temperature	-20-50 C (-4-122 F)	